



**Toronto Public Library  
Pleasant View Branch**  
Lighting Fixture Cutsheets

575 Van Horne Avenue, Toronto, ON M2J 4S8

Issued for Tender  
April 1, 2025

*Lighting fixture cutsheets for reference only. Refer to lighting fixture schedule in Luminaire Specifications for detail luminaire specification information. Should any discrepancy occur between this document and Luminaire Specifications, the Luminaire Specification shall govern wherever possible. The Architect and Design Team shall protect the use, ownership and integrity of this document and agrees to use the information only for the project stated above and shall not distribute this document to third parties.*

Lighting Fixture Type Not Used



**ALULA Lighting Design**

155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

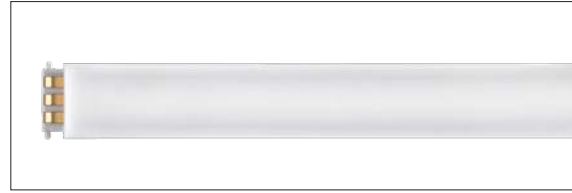
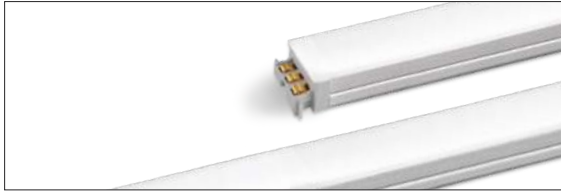
**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LC1**

*Page 1 of 1*



## PRODUCT FEATURES

- Seamless Illumination. No Dark Spots
- Ultra Slim Profile
- Even Surface Illumination
- Spot Free Lens
- Multiple Lengths for Easy Configuration
- End to End Snap-In Connection
- Dimmable with 0-10V, Forward/Reverse Phase.
- Other Options Available
- Side-Feed Units for Long Continuous Runs
- Quick Ship Available\*

## PRODUCT SPECIFICATIONS

- 24VDC Constant Voltage Feelux or Approved Class 2 Drivers
- Operating Temperature: 32-113°F (0-45°C)
- Lamp Life: 50,000 hrs / 70%
- Available Color: 2700K, 3000K, 3500K, 4000K
- CRI/Ra > 90
- 74 lm/W - 6.2W/ft - 456lm/ft (HDPro 24W 4000K)
- IP20 - Damp Location/Closet Approved
- Beam Angle: 120°
- Finish: Aluminum
- 5 year Warranty
- Product is approved for Closet/Storage space installation per NEC410.16 (A) (3) and NEC410.16 (C)(5) per NRTL certification

## DIMENSIONS



FLX Stix HDPro 3W 5.7" (145mm)



FLX Stix HDPro 6W 11.22" (285mm)



FLX Stix HDPro 12W 22.25" (565mm)



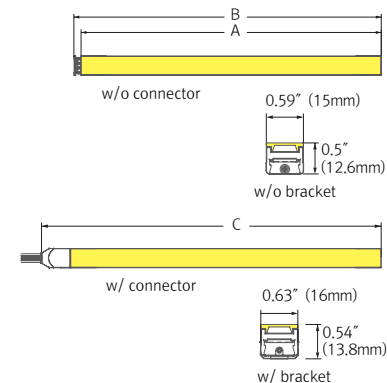
FLX Stix HDPro 18W 33.27" (845mm)



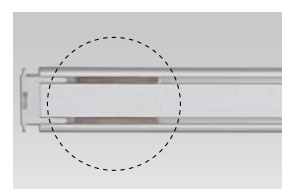
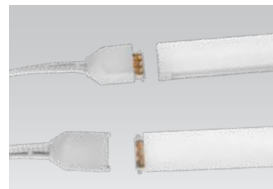
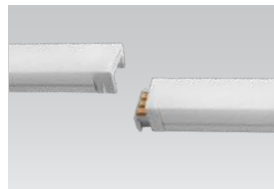
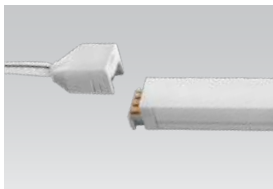
FLX Stix HDPro 24W 44.21" (1123mm)



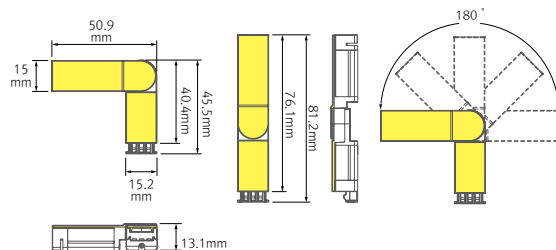
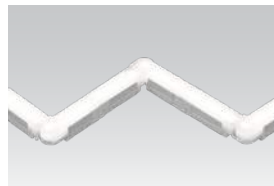
Model Number	Voltage Input (V)	Power Input (W)	Luminous Flux (lm) / 4000K	Color Rendering	A inches (mm)	B inches (mm)	C inches (mm)
HDP3-(Color)K-24V-C90	DC24	2.9	205	Ra>90	5.51 (140)	5.71 (145)	6.41 (163)
HDP6-(Color)K-24V-C90	DC24	5.7	408	Ra>90	11.02 (280)	11.22 (285)	11.93 (303)
HDP12-(Color)K-24V-C90	DC24	11.5	832	Ra>90	22 (559)	22.23 (565)	22.93 (582)
HDP18-(Color)K-24V-C90	DC24	17.3	1,259	Ra>90	33 (838)	33.21 (844)	33.91 (861)
HDP24-(Color)K-24V-C90	DC24	22.8	1,677	Ra>90	44 (1,118)	44.2 (1,123)	44.92 (1,141)



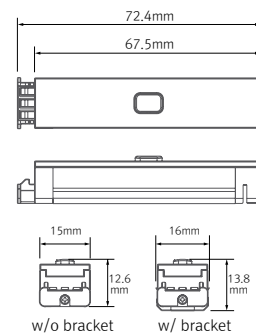
## EASY CONECTION



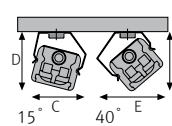
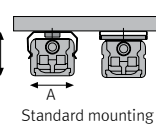
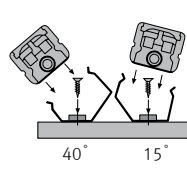
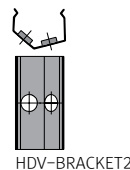
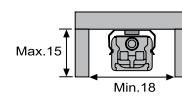
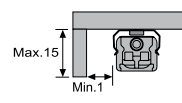
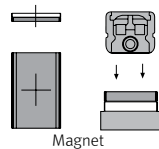
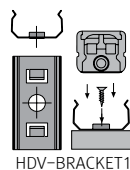
## FLEXIBLE CONNECTING FIXTURE



## INLINE DIMMER

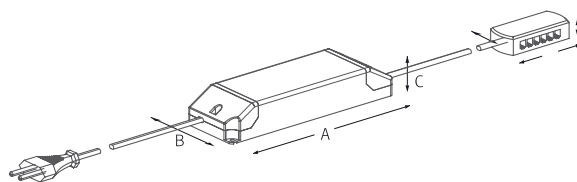


## MOUNTING



## LED DRIVER OPTIONS

– Consult factory for additional options.



Model Name	A inches (mm)	B inches (mm)	C inches (mm)
FLC30-24V/XL	5.9" (150)	1.6" (41)	1.22" (31)
FLC75-24V/XL	7.08" (180)	2.36" (60)	1.25" (32)
XLD75-124V-FC	11.22" (285)	2.94" (74.7)	1.63" (41.5)
XLD200-224V-FCL-DIM	12.28" (312)	4.46" (113.5)	2.28" (60.5)
XLAV80(L)-124V-SSB	14.4" (366)	4.48" (124)	1.7" (43)

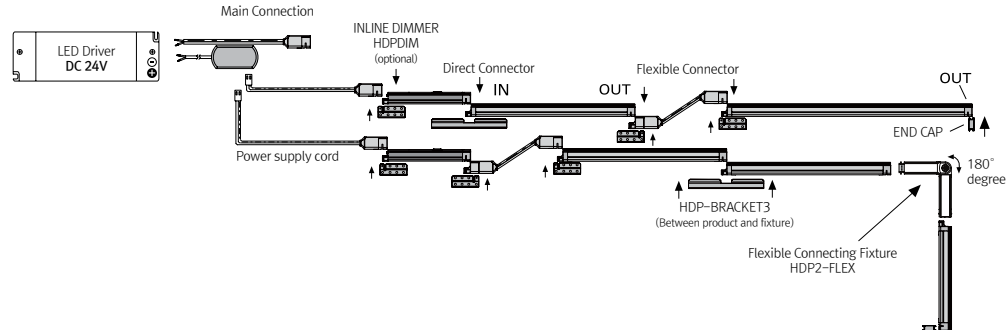




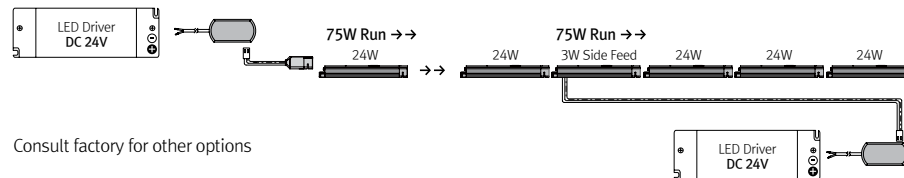
## CONNECTION

**NO RUN TO EXCEED 75W**

IF LONGER RUNS ARE REQUIRED USE SIDE FEED UNIT HDP3-(COLOR)K-24V-S TO CONTINUE SEAMLESS LIGHTING, NOT TO EXCEED 90% OF DRIVER RATED WATTAGE.

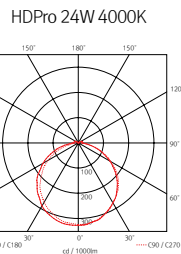
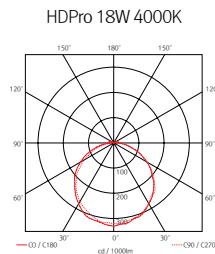
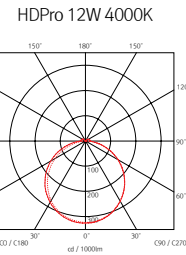
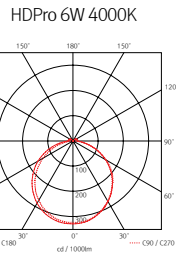
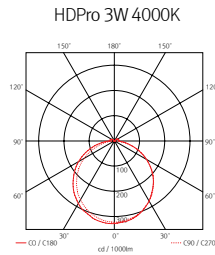


## SIDE FEED UNIT



Consult factory for other options

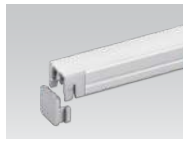
## BEAM SPREADS



## COMPONENTS



**Power cable**  
 \_\_\_ HDPPC (8' )  
 \_\_\_ HDPPC (13' )



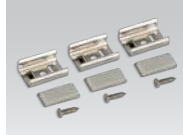
**End Cap**  
 \_\_\_ HDP-CAP  
 Included with fixture



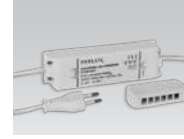
**12 Port Hub**  
 \_\_\_ D12P-HUB  
 Included with Cord and Plug drivers. Order separately for Hard Wire or 3rd Party Drivers



**Sidefeed for Seamless Extension (3W)**  
 \_\_\_ HDP3-(color)K-24V-S



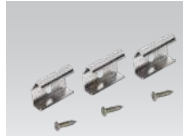
**Metal Mounting Brackets**  
 \_\_\_ HDP-BRACKET1  
 Included with fixture



**LED Drivers**  
 with distributor and power cord (1800mm)  
 \_\_\_ FLC30-24V/XL  
 \_\_\_ FLC75-24V/XL



**Flexible Connecting Fixture (2W)**  
 \_\_\_ HDP2-(color)K-24V-Flex



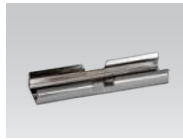
**Angled Brackets**  
 Angled 15°/40° (BK2)  
 \_\_\_ HDP-BRACKET2  
 Optional



**Hard Wire Driver**  
 (90V to 300V)  
 \_\_\_ XLAV80(L)-124V-SSB  
 \_\_\_ XLD200-224V-FCL-DIM  
 \_\_\_ XLD75-124V-FC



**Flexible Connecting Cable**  
 \_\_\_ HDPPTC (6' )  
 \_\_\_ HDPPTC1 (1' )  
 \_\_\_ HDPPTC2 (2' )  
 \_\_\_ HDPPTC4 (4' )  
 \_\_\_ HDPPTC6 (6' )



**Connecting Brackets**  
 Fixture to Fixture  
 \_\_\_ HDP-BRACKET3  
 Included with fixture



**Justin Drivers**  
 \_\_\_ 481-24DCR  
 \_\_\_ 483-24DCR-277  
 \_\_\_ 961-24DCR  
 \_\_\_ 963-24DCR-277  
 \_\_\_ C2240-24DCR  
 \_\_\_ C2240-24DCR-277



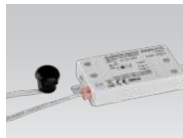
**In-Line Dimmer**  
 \_\_\_ HDPDIM  
 (Max 75W in a row)



**Dimming Interface**  
 Max. 100W (100W/CH, 1CH)  
 0-10V Signal  
 \_\_\_ FDC-L10



**Occupancy Sensor**  
 \_\_\_ HDP-OSM  
 HDP Occupancy Sensor  
 Inline Module

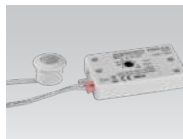


**Door and motion sensor**  
 \_\_\_ FLS-M24V

A larger selection of drivers are available including remote and hard wire drivers. Please consult factory.



**Touch Switch**  
 \_\_\_ HDPTS  
 HDP ON/OFF touch switch



**Occupancy sensor**  
 \_\_\_ FLS-P24V

## SPECIFICATION GUIDE

NOT TO BE USED FOR ORDERING. The Specification Guide is intended solely to ensure that all options are considered.

MODEL	COLOR	C90	LENS	MOUNTING	CONFIGURATION	RUN LENGTH	DRIVER	CONTROLS	VOLTAGE
HDP Pro	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 60K - 6000K*	C90	SF - Spot Free	STD Flat Brackets Magnets Included BK2 15°/40° Brackets	S - Straight V - Varies*	ft. RUN LENGTH IN FEET Fill out for every run section *DRAWINGS AND RUN LENGTH REQUIRED	CP - Cable/Plug HW - Hard Wire TD - 3rd Party Drivers Consult Factory	NDM Non-Dim IDM Inline Dim FDC 0-10V Interface FPH Forward Phase RPH Reverse Phase	100V 120V 230V 277V

\* Available, consult Feelux Lighting

NOTE: No Run to Exceed 75W without use of Side Feed Unit

\* Consult HDP Installation instructions for more information

FEELUX Lighting, Inc., 3000 Northwoods Parkway, Suite 165, Peachtree Corners, GA 30071 | Tel: 678.668.7005 | feeluxlighting.com  
 If you have any questions, please contact your local Feelux Representative. Specifications subject to change without notice. All Rights Reserved. © 2018 Feelux Lighting, Inc.

HDP Pro 4 of 4  
 6/2020



**ALULA Lighting Design**  
 155 Gordon Baker Road, Suite 200  
 Toronto, Ontario M2H 3N5 tel: 416.646-2955

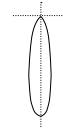
**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LC2**

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## High Center Beam Round Recessed Adjustable

4"



### OVERVIEW

#### Feature Set

- Nine optimized distribution patterns allow designers to achieve tailored objectives
- Vertical tilt is self-locking from 0° - 40° with indicator arrow and gauge; 365° of horizontal rotation.
- Cut cones enable optimal efficacies while also occluding the inside of the fixture.
- Bounding Ray™ optical design
- 45° Cutoff to source and source image
- Field interchangeable optic
- Driver and LED light engine fully serviceable from below ceiling
- 70% lumen maintenance at 60,000 hours
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional

#### Distribution



#### Superior Performance

Nominal Lumens	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000
Delivered	618	710	934	1359	1739	2128	2569	3121	3503	3887	4265
Wattage	6.7	7.5	9.8	15.1	21.5	26.5	34.1	33.8	39.5	46.2	53.2
Efficacy	92	95	95	90	81	80	75	92	89	84	80

\*Based on 3500K 80CRI 35D AR T00 LSS @ 0 Degrees

### COMPLEMENTARY PRODUCTS

#### Coordinated Apertures | Multiple Layers of Light



General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

#### Core



Downlight



Adjustable



Open Wallwash



Lensed Wallwash



Cylinder



Pinhole



Bevel



Hyperbolic

#### Healthcare



MRI



Surgical Suite



Patient Room

#### Special Applications



Dynamic



Food Service



Vandal/Tamper



Clean Room



Shower



Steam Room



Luminaire Type:   
Catalog Number:

EXAMPLE: IC04ADJ 35/15 AR T00 LSS 35D 277 EZ1

Series	Color Temperature	Lumens	Reflector Color	Cut Cone	Flange Type	Reflector Finish
IC04ADJ Incito 4in Round Recessed Adjustable	27/ 2700 K	05 500 lumens	AR Clear	T00 Cut for angles 0°-15°	(blank) Self-flanged	LSS Semi-specular
	30/ 3000 K	07 750 lumens	PR Pewter	T30 Cut for angles 15°-30°	FL <sup>9,10</sup> Flangeless	LD Matte diffuse
	35/ 3500 K	10 1000 lumens	WTR Wheat	T40 Cut for angles 25°-40°		
	40/ 4000 K	15 1500 lumens	GR Gold			
	50/ 5000 K	20 2000 lumens	WR <sup>1</sup> White painted			
		25 2500 lumens	BR <sup>1</sup> Black			
		30 3000 lumens	BZR <sup>1</sup> Dark Bronze painted			
		35 3500 lumens	WRAMF <sup>1</sup> White Anti-microbial			
		40 4000 lumens				
		45 4500 lumens				
		50 5000 lumens				

Beam	Voltage	Driver	Control Interface	Options
10D <sup>2</sup> 10° beam angle	120 120V	GZ10 0-10V driver dims to 10%. Max: 3500LM	(blank)	SF Single fuse.
15D 15° beam angle	277 277V	GZ1 0-10V driver dims to 1%. Max: 3500LM	NLT <sup>7</sup> nLight <sup>®</sup> dimming pack.	90CRI High CRI (90+)
20D 20° beam angle	347 <sup>3,4</sup> 347V	EZ10 eldoLED 0-10V ECOdrive. Linear dimming to 10% min.	NLTER <sup>7,8</sup> nLight <sup>®</sup> dimming pack for fixtures on emergency circuit	CP <sup>11</sup> Chicago Plenum
25D 25° beam angle		EZ1 eldoLED 0-10V ECOdrive. Linear dimming to 1% min.	NLTAIR2 nLight <sup>®</sup> AIR dimming pack.	TRW <sup>9</sup> White Painted Flange
30D 30° beam angle		EZB eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.	NLTAIRER2 <sup>8</sup> nLight <sup>®</sup> AIR dimming pack for fixtures on emergency circuit	TRBL <sup>10</sup> Black Painted Flange
35D 35° beam angle		EDAB <sup>6</sup> eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.	NLTAIREM2 nLight <sup>®</sup> AIR dimming pack for fixtures on emergency circuit	N80 nLight Lumen Compensation
40D 40° beam angle		EDXB <sup>5,6</sup> eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. MIN:1000 MAX:4000		RRL RELOC <sup>®</sup> Ready Luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Available only with RRLA, RRLB, RRLAE, and RRLC12S. Refer to RRL spec sheet on <a href="http://www.acuitybrands.com">www.acuitybrands.com</a> for RELOC <sup>®</sup> product specifications. Above ceiling access required.
45D 45° beam angle		ECOD <sup>6</sup> Lutron <sup>®</sup> EcoSystem <sup>®</sup> digital Hi-Lume 1% soft-on, fade to black. Min: 500LM; Max: 4000LM.		
50D 50° beam angle				

ACCESSORIES —order as separate catalog numbers (shipped separately)

OPTC4 XXD Additional optics for field installation. Replace "XX" with beam angle.

ORDERING NOTES

- Not Available with Finishes.
- Only available 1500lm and below.
- Not available with ELR emergency option.
- Supplied with factory installed step down transformer.
- Includes terminator resistor.
- Not Available with Control Interfaces.
- Must specify 120 or 277.
- For use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not available with WR (White Reflector).
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not available with BR (Black Reflector).
- CP only available up to 3000 lumens. Specify 120 or 277



### Optical and Trim Assembly

Fully serviceable and upgradeable lensed LED light engine suitable for field maintenance or service from above or below the ceiling. Optical design is a Bounding Ray™ design with 45° cutoff to source and source image. Top down flash characteristic for superior glare control. Vertical tilt is self-locking from 0° - 40° with indicator arrow and gauge, engages with a manual tilt locking screw for added aiming assurance. Cut cones enable optimal efficacies while also occluding the inside of the fixture. 365° of horizontal rotation enabled through self-lubricating polymer which never binds or deforms. Cam lock locks rotation to ensure integrity of design throughout lifetime of luminaire.

### Electrical

The luminaire shall operate from a 50 or 60 Hz  $\pm 3$  Hz AC line over a voltage ranging from 120 VAC to 277 VAC. Support 347V via fixture-mounted stepdown transformer. The fluctuations of line voltage shall have no visible effect on the luminous output. The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output. Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages. Input wires shall be 18AWG, 300V minimum solid copper. All drivers are ROHS compliant.

### Controls

Luminaire shall be equipped with interface for nLight wired or nLight AIR networks with integral power supply as per specification.

### Emergency

Luminaires supplied with a battery pack comply with NFPA 101 (Life Safety code) and deliver constant light output throughout the 90 minutes of code required emergency operation period when there is a normal AC power loss with remote test switch available.

### Dimming

The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 - 10%, 100 - 1.0% or 100 - 0.1% of rated lumen output with a smooth shut off function to step to 0%. eldoLED LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered. Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

### Construction

Light engine and driver are accessible from above or below ceiling. 16-gauge black painted steel mounting frame with mounting bars included. Post-installation adjustment possible from above or below ceiling. Galvanized steel junction box with hinged access covers and spring latch. Three combination 1/2"-3/4" and one 1/2" knockout for straight-through conduit runs. Capacity: 8 (4 in, 4 out) No. 12 AWG conductors rated for 90°C. Accommodates up to 5/8"-thick ceilings.

### Listings

Fixtures are CSA Certified to meet US and Canadian Standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, damp location listed. IC-rated up to 1500 lumens.

### Government Procurement

BAA - Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations. BABA - Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

### Photometrics

LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours. Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 60,000 hours and operate within a tolerance of <2.5 MacAdam ellipse as defined by the center of the quadrangles defined in ANSI C78.377-2015.

### Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

### Note:

Actual performance may differ as a result of end user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C.

### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning when used with Acuity Brands controls products.

*All configurations of this luminaire are calibrated and tested to meet the Acuity Brands' specifications for chromatic consistency – including color rendering, color fidelity, and color temperature tolerance around standard CIE chromaticity coordinates.*

To learn more about Acuity A+ standards, specifications, and testing, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).



ICO - eldoLED Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
EZ10	10%	Linear	Linear/Logarithmic
EZ1	1%	Linear	Linear/Logarithmic
EZB	<1%	Logarithmic	Linear
EDAB	<1%	Logarithmic*	Linear
EDXB	<1%	Square	Linear

\*Changable thorough DALI controller

Lumen Output Multiplier		
CRI	CCT	Multiplier
80	2700K	0.916
	3000K	0.948
	3500K	1
	4000K	1.032
	5000K	1.1
90	2700K	0.748
	3000K	0.8
	3500K	0.838
	4000K	0.845
	5000K	0.945

Reflector Finish Multiplier	
Reflector Finish	Multiplier
LS - Specular	1
LSS - Semi Specular	0.956
WR - White	0.87
LD - Matte Diffuse	0.85
BR - Black	0.73
BZR - Bronze	0.73

Driver		Control Provided				
Nomenclature	Description	NLT	NLTER	NLTAIR2	NLTAIREM2	NLTAIRER2
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2
GZ1	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2
EZ10	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2
EZ1	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2
EZB	eldoLED 0-10V SOLOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2

Marked Spacing in Inches 25°C Ambient			
Lumen Package	Fixed Center to Center MIN	Fixture Center to Building Member MIN	Space Above Fixture
3000-5000 (All driver options)	24	12	0.5



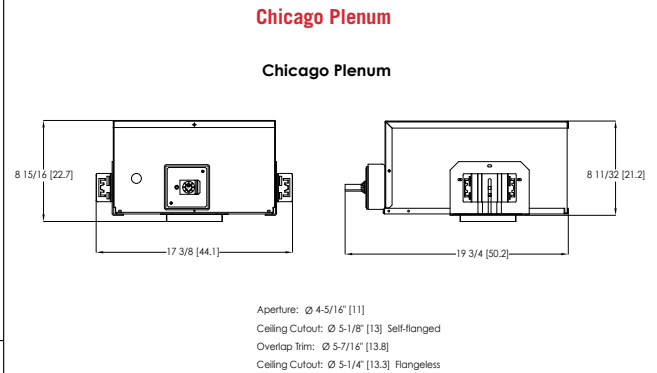
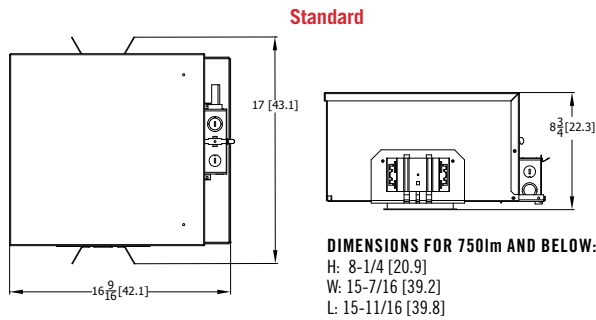
\*Dimensions in inches [centimeters]

Aperture: 4-5/16 [11]

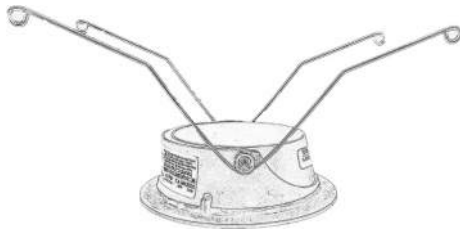
Ceiling Opening: 5-1/8 [13] self-flanged

Overlap Trim: 5-7/16 [13.8]

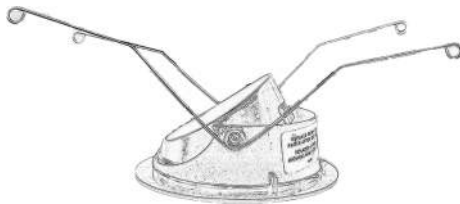
Ceiling Opening: 4-5/8 [11.7] flangeless



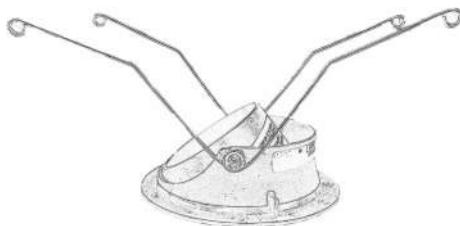
**T00 Cut Cone for 0° - 15° Tilt**



**T30 Cut Cone for 15° - 30° Tilt**

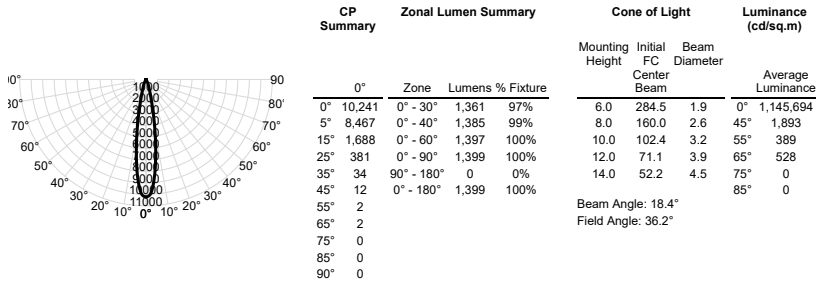


**T40 Cut Cone for 26° - 40° Tilt**

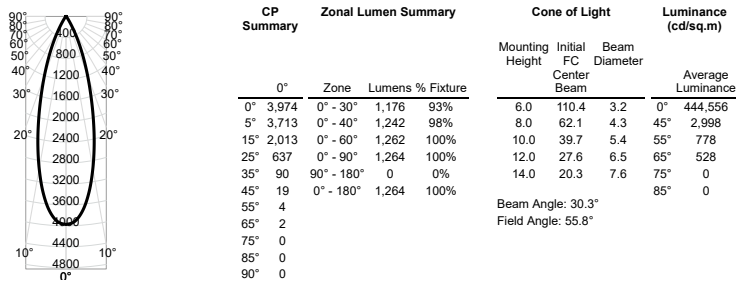


CONSULT WWW.GOTHAMLIGHTING.COM FOR ADDITIONAL PHOTOMETRY

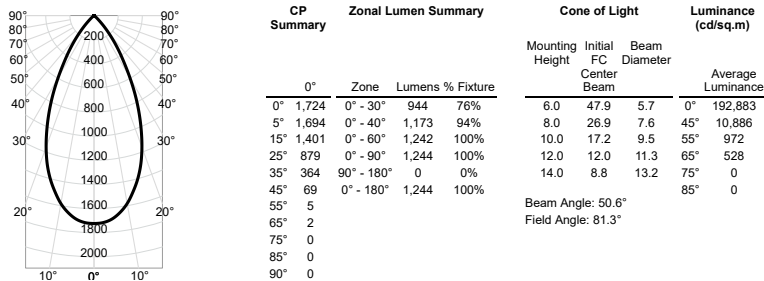
ICO4ADJ 35/15 AR T00 LSS 15D at 0DEG Input Watts: 15.1, Delivered Lumens: 1399, LPW: 92.6, S/MH: 0.31, Test No: ISF 193855P101



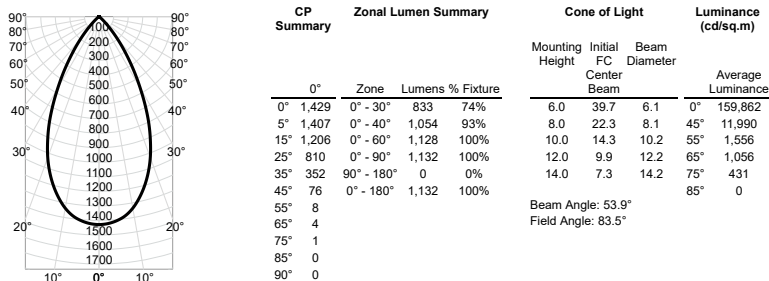
ICO4ADJ 35/15 AR T00 LSS 30D at 0DEG Input Watts: 15.1, Delivered Lumens: 1264, LPW: 83.7, S/MH: 0.50, Test No: ISF 193858P101



ICO4ADJ 35/15 AR T00 LSS 45D at 0DEG Input Watts: 15.1, Delivered Lumens: 1244, LPW: 82.4, S/MH: 0.79, Test No: ISF 20509P101



ICO4ADJ 35/15 AR T00 LSS 50D at 0DEG Input Watts: 15.1, Delivered Lumens: 1132, LPW: 75.0, S/MH: 0.84, Test No: ISF 193862P101





NLIGHT AIR

**nLight® AIR** is the ideal solution for retrofit or new construction spaces where adding communication wiring is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each EVO Luminaire ordered with the NLTAIR option. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.

**nLight® AIR Control Accessories**

Order as separate catalog number. Visit [nLight AIR](#).

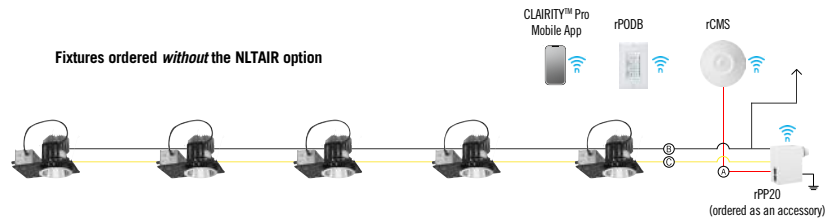
Wall Switches	Model Number
On/Off single pole	rPODB (color) G2
On/Off two pole	rPODB 2P (color) G2
On/Off & raise/lower single pole	rPODB DX (color) G2
On/Off & raise/lower two pole	rPODB 2P DX (color) G2

**nLight® AIR Control Accessories (cont.)**

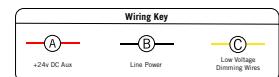
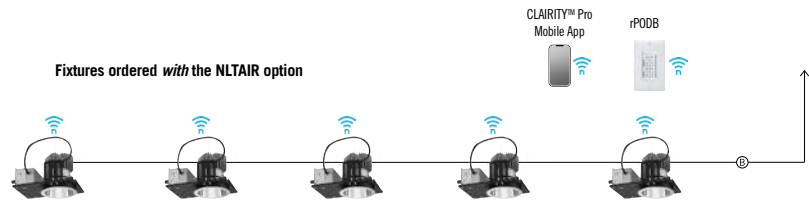
Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	rCMS 9 / rCMS PDT 9
Large motion 360°, ceiling	rCMS 10 / rCMS PDT 10

**Possibilities for nLight® AIR**

**Fixtures ordered *without* the NLTAIR option**



**Fixtures ordered *with* the NLTAIR option**



NLIGHT

**nLight® Wired** The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

**nLight® Wired Control Accessories**

Order as separate catalog number. Visit [nLight](#).

Wall Switches	Model Number
On/Off single pole	nPODM (XX)
On/Off two pole	nPODM 2P (XX)
On/Off & raise/lower single pole	nPOD DX (XX)
On/Off & raise/lower two pole	nPODM 2P DX (XX)
Graphic touchscreen	nPOD GFX (XX)

**Photocell Controls**

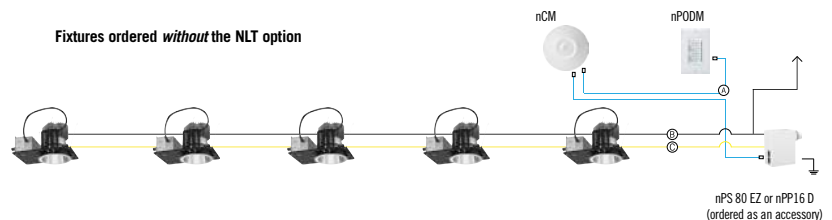
Dimming	nCM ADCX
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**nLight® Wired Control Accessories (cont.)**

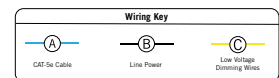
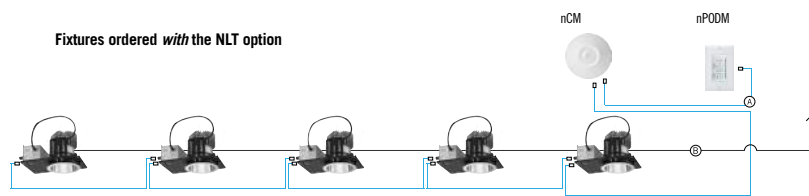
Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX
Cat-5 Cables (plenum rated)	
10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1

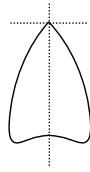
**Possibilities for nLight® wired**

**Fixtures ordered *without* the NLT option**



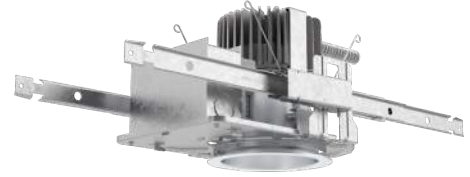
**Fixtures ordered *with* the NLT option**





## General Illumination Round Downlight

4"



### OVERVIEW

#### Feature Set

- Bounding Ray™ optical design
- Unitized optics mechanically attach the light engine to the lower reflector for complete optical alignment.
- 45° cutoff to source and source image
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 MacAdam Ellipse; 85 CRI typical, 90+ CRI optional
- Fixtures are wet location, covered ceiling
- Available with 10% dimming, 1% dimming, or dim to dark
- Batwing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
- UGR of zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg per CIE 117-1995 Discomfort Glare in Interior Lighting. [UGR FAQ](#)

#### Distribution



#### Superior Performance\*

Nominal Lumens	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500
Delivered Lumens	271	573	808	1001	1527	1994	2580	3110	3612	4120	4584
Wattage	3.1	7.2	7.9	8.8	13.7	19.5	25.7	31.2	38.4	35.4	40.1
Lumens per Watt	87.4	79.6	102.3	113.8	111.5	102.3	100.4	99.7	94.1	116	114

\*Based on 3500K AR LSS MWD 80CRI



design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit [www.acuitybrands.com/designselect](http://www.acuitybrands.com/designselect).

\*See ordering tree for details

### COMPLEMENTARY PRODUCTS

#### Coordinated Apertures | Multiple Layers of Light



General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

#### Core



Downlight



Adjustable



Open Wallwash



Lensed Wallwash



Cylinder



Pinhole



Bevel



Hyperbolic

#### Healthcare



MRI



Surgical Suite



Patient Room

#### Special Applications



Dynamic



Food Service



Vandal/Tamper



Clean Room

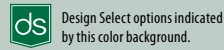


Shower



Steam Room





Luminaire Type:   
Catalog Number:

EXAMPLE: EV04 35/25 AR MWD LSS 120 EZ1

Series	Color Temperature	Nominal Lumen Values	Reflector & Flange Color	Trim Style	Finish	Distribution	Voltage
EV04	27/ 2700 K	02 250 lumens	AR Clear	(blank) Self-flanged	LSS Semi-specular	MD Medium (0.9 s/mh)	MVOLT 120 277 347 <sup>3,4</sup>
	30/ 3000 K	05 500 lumens	PR Pewter	FL Flangeless	LD Matte-diffuse	MWD Medium wide (1.0 s/mh)	
	35/ 3500 K	07 750 lumens	WTR Wheat		LS Specular	WD Wide (1.2 s/mh)	
	40/ 4000 K	10 1000 lumens	GR Gold				
	50/ 5000 K	15 1500 lumens	WR <sup>1</sup> White				
		20 2000 lumens	BR <sup>1</sup> Black				
		25 2500 lumens	WRAMF <sup>1</sup> White Anti-microbial				
		30 3000 lumens	TRALTBD <sup>1,2</sup> RAL paint for pricing only				
		35 3500 lumens	TCPC <sup>1</sup> Custom paint color				
		40 4000 lumens					
		45 4500 lumens					

Driver <sup>5</sup>	Control Interface	Emergency Options	Options
GZ10 0-10V driver dims to 10%	NLT <sup>7</sup> nLight® dimming pack controls	EL <sup>11</sup> Emergency battery pack, 10W, with integral test switch	SF Single Fuse. Specify 120V or 277V
GZ1 0-10V driver dims to 1%	NLTER <sup>3,7,8</sup> nLight® dimming pack controls emergency circuit	ELR <sup>11</sup> Emergency battery pack, 10W, with remote test switch	TRW <sup>12</sup> White painted flange
EZ10 eldoLED 0-10V ECOdrive. Linear dimming to 10% min.	NLTAIR <sup>2,9,10</sup> nLight® AIR enabled	ELSD <sup>11</sup> Emergency battery pack, 10W, with self-diagnostics, integral test switch	TRBL <sup>13</sup> Black painted flange
EZ1 eldoLED 0-10V ECOdrive. Linear dimming to 1% min.	NLTAIRER <sup>2,3,9</sup> nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit	ELRSD <sup>11</sup> Emergency battery pack, 10W, with self-diagnostics, remote test switch	FRALTBD <sup>2</sup> Flange ring only RAL color for pricing only
EZB eldoLED 0-10V SOL0drive. Logarithmic dimming to <1%.	NLTAIREM <sup>2,3,9</sup> nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit with battery pack options.	E10WCP <sup>11</sup> Emergency battery pack, 10W Constant Power, CA Title 20 compliant with integral test switch	FCPC Flange custom paint color
EDAB eldoLED SOL0drive DALI. Logarithmic dimming to <1%.		E10WCPR <sup>11</sup> Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch	N80 <sup>14</sup> nLight® Lumen Compensation
EDXB eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Minimum 1000 lumens. Includes termination resistor. Refer to <a href="#">DMXR Manual</a> .		BGTD Bodine generator transfer device. Specify 120V or 277V.	GTD generator transfer device. Specify 120V or 277V
ECOD <sup>6</sup> Lutron Ecosystem digital Hi-Lume 1% soft-on, fade to black. Min: 250LLM; Max: 4000LM.			90CRI High CRI (90+)
			CP <sup>15</sup> Chicago Plenum. Specify 120V or 277V for 5000lm and above.
			RRL RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Available only with RRLA, RRLB, RRLAE, and RRLC12S. Refer to <a href="#">RRL spec sheet</a> on <a href="#">www.acuitybrands.com</a> for RELOC® product specifications. Above ceiling access required.

ACCESSORIES — order as separate catalog numbers (shipped separately)

SCA4	Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA4 10D. Refer to <a href="#">TECH-190</a> .
CTAEV04	4" Aperture ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5").
CTA4-8 YK	4"-8" Aperture ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5"). For use with CWW/DWW trims, EDXB, CP or nTune options.
ISD BC	0-10V wallbox dimmer. Refer to <a href="#">ISD-BC</a> .

ORDERING NOTES

- Not available with finishes.
- Replace with applicable RAL number and finish when ready to order. See [RAL BROCHURE](#) for available color options. Not available with emergency battery pack options.
- Not available with emergency battery pack options.
- Supplied with factory installed step down transformer.
- Refer to [TECH-240](#) for compatible dimmers.
- Not available with nLight®.
- Must specify voltage.
- ER for use as UL924 Emergency Operation via power sense lead. Will require an emergency hot feed and normal hot feed. EM for use as UL924 Emergency Operation via power interrupt detection.
- Not available DALI or DMX drivers. Not available with CP or N80 options. Not recommended for metal ceiling installations.
- When combined with the EZ1, EZ10, or EZB option, normal luminaires (non-emergency) can be used as a normal power sensing device for nearby nLight AIR devices and luminaires with EM emergency options.
- 11" of plenum depth or top access required for battery pack maintenance.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with WR (white reflector) or FL (flangeless) option.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with BR (black reflector) or FL (flangeless) option.
- Fixture begins at 80% light level. Must be specified with NLT or NLTER. Only available with EZ10 and EZ1 drivers.
- Not available with ELR, HAO, or EXAB, or any nLight® AIR dimming options.



### Optical Assembly

Optical design is a Bounding Ray™ design with 45° cutoff to source and source image. Top-down flash characteristic for superior glare control. Unitized optics shall have mechanical attachment of the light engine to the lower reflector for complete optical alignment.

### Electrical

The luminaire shall operate from a 50 or 60 Hz  $\pm 3$  Hz AC line over a voltage ranging from 120 VAC to 277 VAC. The fluctuations of line voltage shall have no visible effect on the luminous output.

The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output.

Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages.

Input wires shall be 18AWG, 300V minimum, solid copper.

### Controls

Luminaire shall be equipped with interface for nLight wired or wireless network with integral power supply as per specification.

### Dimming

The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 – 10%, 100 – 1.0% or 100 – 0.1% of rated lumen output with a smooth shut off function to step to 0%.

elDoLED LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered.

Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

### Construction

Fully serviceable and upgradeable lensed LED light engine, both the driver and light engine are suitable for field maintenance and are serviceable from above or below the ceiling.

Luminaire housing shall be constructed of 20-gauge galvanized steel and have telescopic mounting bars with maximum 26" and minimum 15" extension and 4" vertical adjustment.

Luminaires shall be suitable for installation in ceilings up to 1½" thick. (specify ceiling thickness adapter to extend frame to accommodate ceiling thickness up to 2").

Tool-less adjustments shall be possible after installation.

The assembly and manufacturing process for the luminaire shall be designed to assure all internal components are adequately supported to withstand mechanical shock and vibration.

25°C ambient temperature standard (1/2" clearance on all sides from non-combustible materials in non-IC applications, unless marked spacing noted otherwise). For use in insulated ceilings, a 3" clearance on all sides from insulation is required (unless marked spacing noted otherwise).

### Listings

Fixtures are CSA certified to meet US and Canadian Standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, wet location covered ceiling.

### Government Procurement

BAA - Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA - Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

### Photometrics

LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours.

Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 60,000 hours and operate within a tolerance of <2.5 MacAdam ellipse as defined by a point at the intersection of the CCT line and the black body locus line in CIE chromaticity space.

### Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

### Note:

Actual performance may differ as a result of end user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C.

### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control capability with simple commissioning when used with Acuity Brands controls products.

All configurations of this luminaire are calibrated and tested meet the Acuity Brands' specification for chromatic consistency - including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates.

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).



EVO - eldoLED Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
EZ10	10%	Linear	Linear/Logarithmic
EZ1	1%	Linear	Linear/Logarithmic
EXA1	1%	Linear	Linear/Logarithmic
EZB	<1%	Logarithmic	Linear
EDAB	<1%	Logarithmic	Linear
EDXB	<1%	Logarithmic	Linear

Driver		Control Provided (note: 347V/UVOLT versions provided with 347 option selected)				
Nomenclature	Description	NLT	NLTER	NLTAIR2	NLTAIR2ER	NLTAIREM2
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2
GZ1	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2
EZ10	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2
EZ1	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2
EZB	eldoLED 0-10V SOLOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2

#### How to Estimate Delivered Lumens in Emergency Mode

$$\text{Delivered Lumens} = 1.25 \times P \times \text{LPW}$$

P = Output power of emergency driver. P = 10W for PS1055CP

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

#### Flangeless Installation

Gotham's flangeless option utilizes a micro-thin polymer mud ring that minimizes the amount of drywall compound required to finish the ceiling. The end result is a virtually undetectable flangeless downlight installation.

The polymer mud ring is installed independent of the of the recessed frame, therefore floating with the ceiling. This innovation minimizes any surface cracks during reflector installation, ceiling movement and any future service to the recessed frame, wiring, electronics, etc.



Partially finished mud ring, showing cross-section detail.



An EVO downlight requires only approximately 3" of plaster to finish.



EVO with flangeless trim



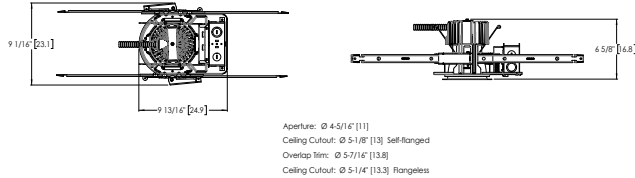
Aperture: 4-5/16" (11)

Ceiling Opening: 5-1/8" (13) self-flanged

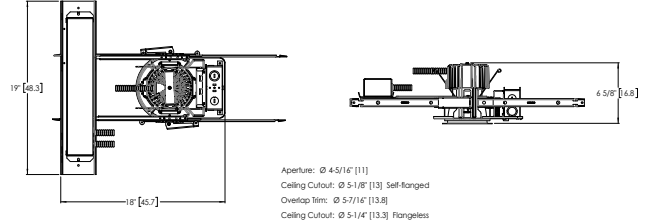
Overlap trim: 5-7/16" (13.8)

5-1/4" (13.3) flangeless

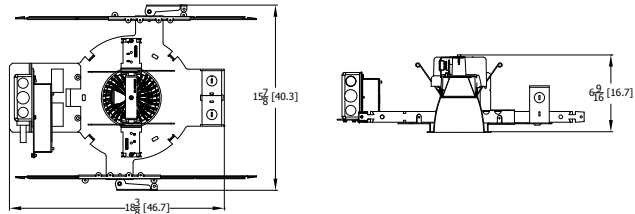
Standard



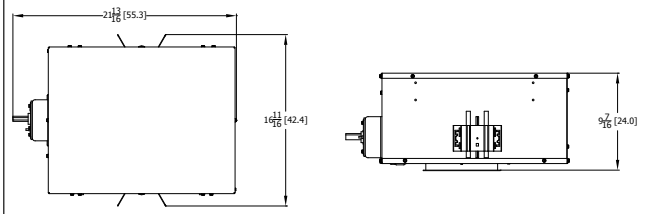
Battery Pack



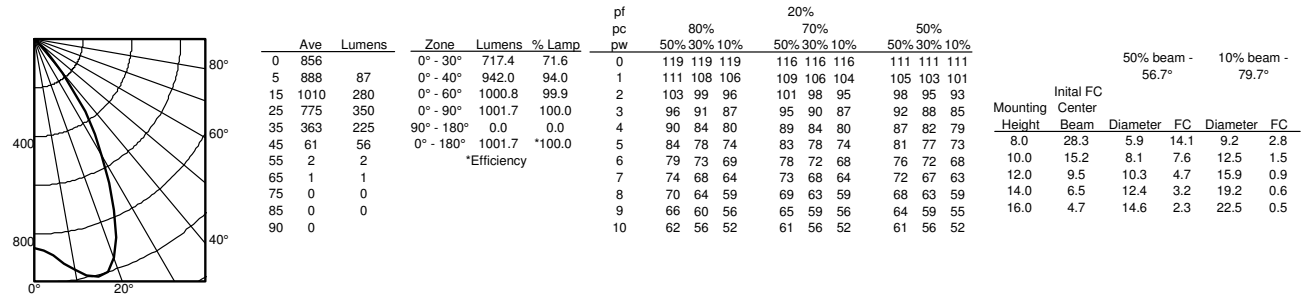
CP Standard



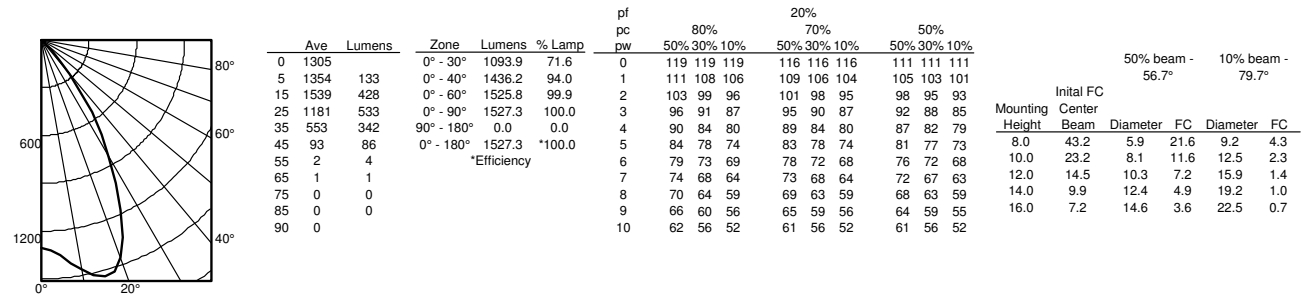
CP Enclosed For Use With Battery Pack & nLight



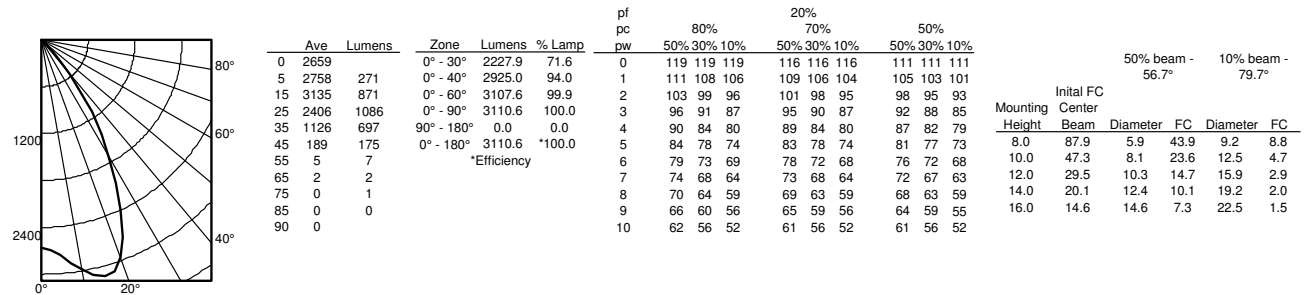
EV04 35/10 MWD LS INPUT WATTS: 8.8W, DELIVERED LUMENS: 1001.7LM, LPW = 113.8, 1.08 S/MH, TEST NO. LTL27786P131



EV04 35/15 MWD LSS INPUT WATTS: 13.7W, DELIVERED LUMENS: 1527.3LM, LPW = 111.4, 1.08 S/MH, TEST NO. LTL27786P137



EV04 35/30 MWD LSS INPUT WATTS: 31.2W, DELIVERED LUMENS: 3110.6LM, LPW = 99.6, 1.08 S/MH, TEST NO. LTL27786P155



CCT/CRI Multiplier Table		
CRI	CCT	Multiplier
80	2700K	0.96
	3000K	1.00
	3500K	1.00
	4000K	1.01
	5000K	1.07
90	2700K	0.80
	3000K	0.83
	3500K	0.85
	4000K	0.87
	5000K	0.91

Reflector Finish Multiplier	
Reflector Finish	Multiplier
LS - Specular	1
LSS - Semi Specular	0.956
WR - White	0.87
LD - Matte Diffuse	0.85
BR - Black	0.73

Distributions	
Distribution	Beam
MD	51
MWD	57
WD	73



NLIGHT AIR

**nLight® AIR** is the ideal solution for retrofit or new construction spaces where adding communication wiring is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each EVO Luminaire ordered with the NLTAIR option. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.

#### nLight® AIR Control Accessories

Order as separate catalog number. Visit [nLight AIR](#).

##### Wall Switches

Model Number	
On/Off single pole	rPODB (color) G2
On/Off two pole	rPODB 2P (color) G2
On/Off & raise/lower single pole	rPODB DX (color) G2
On/Off & raise/lower two pole	rPODB 2P DX (color) G2

#### nLight® AIR Control Accessories (cont.)

##### Occupancy Sensors (PIR/dual tech)

Model Number	
Small motion 360°, ceiling	rCMS 9 / rCMS PDT 9
Large motion 360°, ceiling	rCMS 10 / rCMS PDT 10

#### UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY™ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

**nLight®** The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

#### nLight® Wired Control Accessories

Order as separate catalog number. Visit [nLight](#).

##### Wall Switches

Model Number	
On/Off single pole	nPODM (color)
On/Off two pole	nPODM 2P (color)
On/Off & raise/lower single pole	nPOD DX (color)
On/Off & raise/lower two pole	nPODM 2P DX (color)
Graphic touchscreen	nPOD GFX (color)

##### Photocell Controls

Dimming	nCM ADCX
---------	----------

#### nLight® Wired Control Accessories (cont.)

##### Occupancy Sensors (PIR/dual tech)

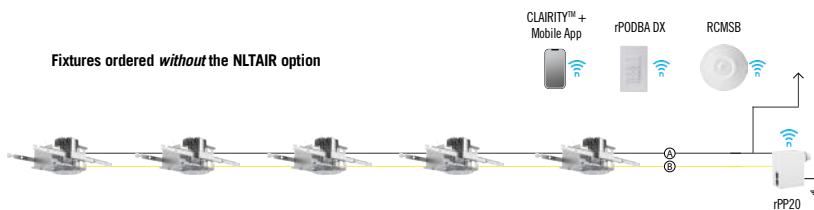
Model Number	
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX

##### Cat-5 Cables (plenum rated)

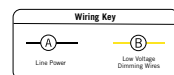
10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1

#### Possibilities for nLight® AIR

##### Fixtures ordered *without* the NLTAIR option



##### Fixtures ordered *with* the NLTAIR option

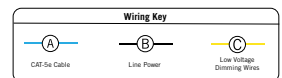
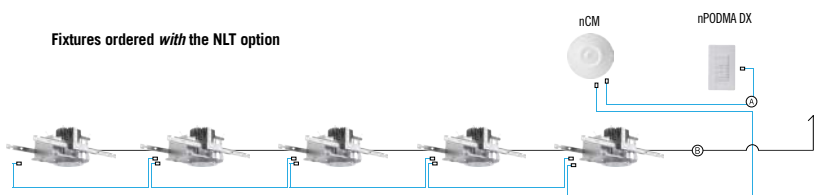


#### Possibilities for nLight® wired

##### Fixtures ordered *without* the NLT option



##### Fixtures ordered *with* the NLT option





Lighting Fixture Type Not Used



**ALULA Lighting Design**

155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

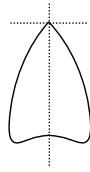
**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LD5**

*Page 1 of 1*



## General Illumination Shower Downlight

4"



### OVERVIEW

#### Feature Set

- Wipe down flush or regressed lens
- NSF2 Splash/Non-food Zone
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 MacAdam ellipse; 85 CRI typical, 90+ CRI optional
- IP66 rated room-side, Fixtures are wet location, covered ceiling
- Anti-microbial paint finish
- Non-conductive dead-front trim
- Suitable for steam room application
- UGR of zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg per CIE 117-1995 Discomfort Glare in Interior Lighting. [UGR FAQ](#)

#### Distribution



#### Superior Performance

Nominal Lumens	1000	1500	2000	2500
Delivered	843	1281	1684	2165
Wattage	8.8	13.7	19.5	25.7
Efficacy	95.8	93.5	86.4	84.2

\*Lumen output for 80CRI - 3500K

### COMPLEMENTARY PRODUCTS

#### Coordinated Apertures | Multiple Layers of Light



General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

#### Core



Downlight



Adjustable



Open Wallwash



Lensed Wallwash



Cylinder



Pinhole



Bevel



Hyperbolic

#### Healthcare



MRI



Surgical Suite



Patient Room

#### Special Applications



Dynamic



Food Service



Vandal/Tamper



Clean Room



Shower



Steam Room





A+ Capable options indicated by this color background.

Luminaire Type:

Catalog Number:

EXAMPLE: EV04SH 35/20 DFFAMF SOL MVOLT EZ1

Series	Color Temperature		Nominal Lumen Values		Lens Setting		Lens	Voltage	
EV04SH	27/	2700 K	10	1000 lumens	DFR	Regressed lensed white painted trim	SOL	Textured Lens	MVOLT 120 277
	30/	3000 K	15	1500 lumens	DFF	Flush lensed white painted trim	SMO	Smooth Clear Lens	
	35/	3500 K	20	2000 lumens	DFRBR	Regressed lensed black painted trim			
	40/	4000 K	25	2500 lumens	DFFBR	Flush lensed black painted trim			
	50/	5000 K	30	3000 lumens	DFRAMF	Regressed lensed trim with anti-microbial finish			
			35	3500 lumens	DFFAMF Flush lensed trim with anti-microbial finish				
			40	4000 lumens					
			45	4500 lumens					

Driver <sup>1</sup>	Controls Interface	Emergency	Options
EZ1 eldoLED 0-10V ECOdrive. Linear dimming to 1% min.	NLT <sup>2</sup> nLight® dimming pack controls 0-10V eldoLED drivers.	(blank) no emergency options	SF Single fuse. Specify 120V or 277V.
EZB eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.	NLTER <sup>2,3</sup> nLight® dimming pack controls 0-10V eldoLED drivers. ER controls fixtures on emergency circuit.	ELR <sup>4</sup> Emergency battery pack, 10W, with remote test switch.	90CRI High CRI (90+).
EDAB eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.		E10WCPR <sup>4</sup> Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch	CP Chicago Plenum
		BGTD Bodine generator transfer device. Specify 120V or 277V.	

ACCESSORIES — order as separate catalog numbers (shipped separately)

SCA4	Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA8 10D. Refer to <a href="#">TECH-190</a> .
CTAEV04	4" Aperture ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5").
CTA4-8 YK	4"-8" Aperture ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5"). For use with CWW/DWW trims, EDXB, CP or nTune options.
ISD BC	0-10V wallbox dimmer. Refer to <a href="#">ISD-BC</a> .
RK2 SDT 347/120 75VA U 347V	step-down transformer mounted in box installed by others up to 5000lm
RK2 SDT 347277120 395VA AD U 347V	step down transformer mounted in box installed by others 6000-12,000lm

ORDERING NOTES

1. Refer to [TECH-240](#) for compatible dimmers.
2. Specify Voltage.
3. For use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
4. 11" of plenum depth or top access required for battery pack maintenance. Not available with CP option.



### Optical Assembly

Fully serviceable and upgradeable lensed LED light engine, both the driver and light engine are suitable for field maintenance and are serviceable from above or below the ceiling.

Unitized optics shall have mechanical attachment of the light engine to the lower reflector for complete optical alignment.

### Electrical

The luminaire shall operate from a 50 or 60 Hz  $\pm 3$  Hz AC line over a voltage ranging from 120 VAC to 277 VAC. The fluctuations of line voltage shall have no visible effect on the luminous output.

The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output.

Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages.

Input wires shall be 18AWG, 300V minimum, solid copper. All drivers are ROHS compliant.

### Controls

Luminaire shall be equipped with interface for nLight wired network with integral power supply as per specification.

### Dimming

The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 – 10%, 100 – 1.0% or 100 – 0.1% of rated lumen output with a smooth shut off function to step to 0%.

LED LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered.

Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

### Construction

Luminaire housing is constructed of 20-gauge galvanized steel and has pre-installed telescopic mounting bars with maximum 26" and minimum 15" extension and 4" vertical adjustment.

luminaires are suitable for installation in ceilings up to 1½" thick. (specify ceiling thickness adapter to extend frame to accommodate ceiling thickness up to 5").

Tool-less adjustments shall be possible after installation.

The assembly and manufacturing process for the luminaire shall be designed to assure all internal components are adequately supported to withstand mechanical shock and vibration.

25°C ambient temperature standard (1/2" clearance on all sides from non-combustible materials in non-IC applications, unless marked spacing noted otherwise). For use in insulated ceilings, a 3" clearance on all sides from insulation is required (unless marked spacing noted otherwise).

### Listings

Fixtures are CSA certified to meet US and Canadian standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, wet location covered ceiling.

### Buy American Act

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations.

Please refer to <https://www.acuitybrands.com/resources/buy-american> for additional information.

### Photometrics

LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours.

Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 6,000 hours and operate within a tolerance of <2.5 MacAdam ellipse as defined by a point at the intersection of the CCT line and the black body locus line in CIE chromaticity space.

### Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

### Note:

Actual performance may differ as a result of end user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background\*
- This luminaire is part of an A+ Certified solution for nLight® control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background\*

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details



Aperture: 4-5/16" (11)

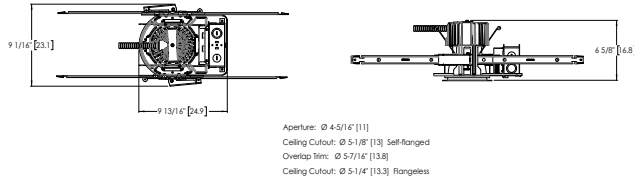
Ceiling Opening: 5-1/8" (13) self-flanged

Overlap trim: 5-7/16" (13.8)

5-1/4" (13.3) flangeless

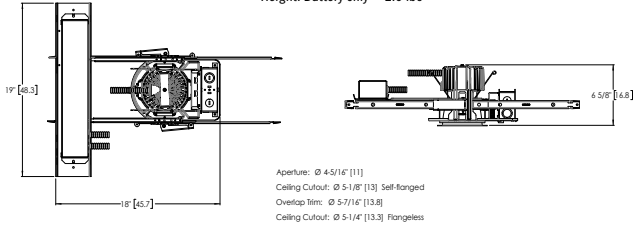
### Standard

weight:  
Housing = 12 lbs  
Trim = 0.5 lbs



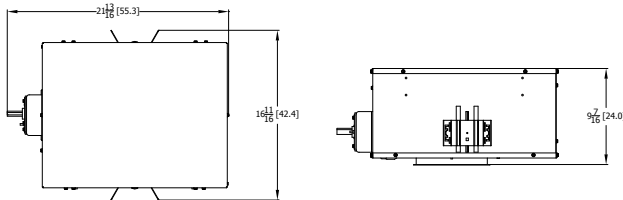
### Battery Pack

Weight: Battery only = 2.5 lbs



### CP Standard

Weight: CP housing only = 13 lbs



EVO - eldoLED Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
EZ1	1%	Linear	Linear/Logarithmic
EXA1	1%	Linear	Linear/Logarithmic
EZB	<1%	Logarithmic	Linear
EDAB	<1%	Logarithmic	Linear
EXAB	<1%	Logarithmic	Linear
EDXB	<1%	Logarithmic	Linear

Driver		Control Provided (note: 347V/UVOLT versions provided with 347 option selected)	
Nomenclature	Description	NLT	NLTER
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP
GZ1	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP
EZ1	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER
EZB	eldoLED 0-10V SOLOdrive	nPS 80 EZ	nPS 80 EZ ER

### How to Estimate Delivered Lumens in Emergency Mode

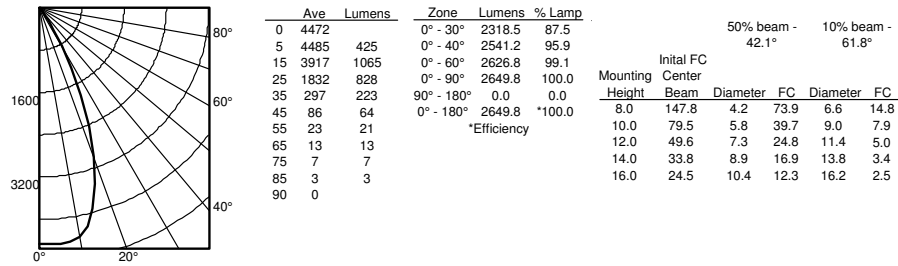
**Delivered Lumens = 1.25 x P x LPW**

P = Output power of emergency driver. P = 10W for PS1055CP

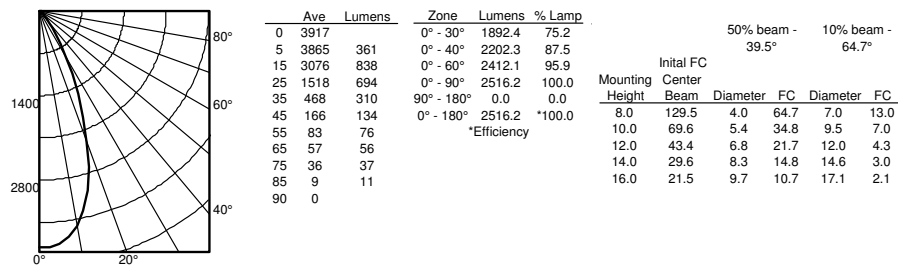
LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.



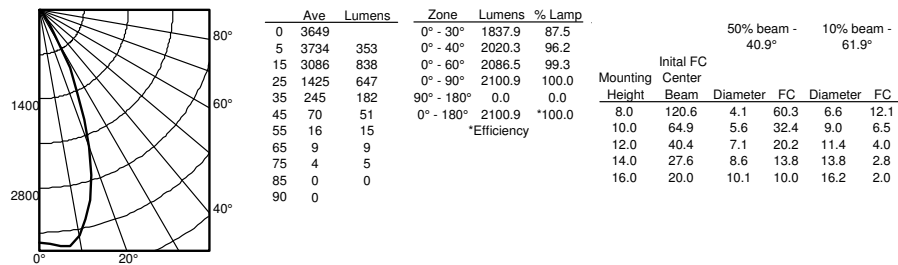
**EV04SH 35/25 4DFF SMO INPUT WATTS: 37.2W, DELIVERED LUMENS: 2650LM, LPW = 71.2, TEST NO. PT06171309**



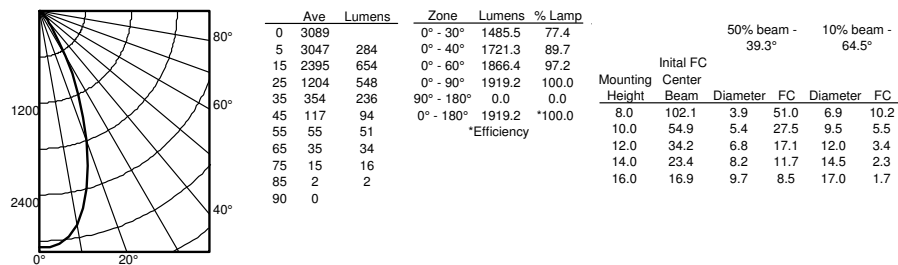
**EV04SH 35/25 4DFF SOL INPUT WATTS: 37.2W, DELIVERED LUMENS: 2516LM, LPW = 67.6, TEST NO. PT06171308**



**EV04SH 35/25 4DFR SMO INPUT WATTS: 37.2W, DELIVERED LUMENS: 2101LM, LPW =56.5, TEST NO. PT06171307**



**EV04SH 35/25 4DFR SOL INPUT WATTS: 37.2W, DELIVERED LUMENS: 1919LM, LPW = 51.6, TEST NO. PT06171306**



DFF SMO - Flush Clear				
Nominal Lumens	1000	1500	2000	2500
Delivered	843	1281	1684	2165
Wattage	8.8	13.7	19.5	25.7
Efficacy	95.8	93.5	86.4	84.2

\*Lumen output for CRI80 - 3500K

DFF SOL - Flush Textured				
Nominal Lumens	1000	1500	2000	2500
Delivered	801	1218	1602	2059
Wattage	8.8	13.7	19.5	25.7
Efficacy	91.0	88.9	82.2	80.1

\*Lumen output for CRI80 - 3500K

DFR SMO - Regressed Clear				
Nominal Lumens	1000	1500	2000	2500
Delivered	660	1003	1319	1695
Wattage	8.8	13.7	19.5	25.7
Efficacy	75.0	73.2	67.6	66.0

\*Lumen output for CRI80 - 3500K

DFR SOL - Regressed Textured				
Nominal Lumens	1000	1500	2000	2500
Delivered	611	929	1222	1571
Wattage	8.8	13.7	19.5	25.7
Efficacy	69.4	67.8	62.7	61.1

\*Lumen output for CRI80 - 3500K

CCT/CRI Multiplier Table		
CRI	CCT	Multiplier
80	2700K	0.96
	300K	1.00
	3500K	1.00
	4000K	1.01
	5000K	1.07
90	2700K	0.80
	300K	0.83
	3500K	0.85
	4000K	0.87
	5000K	0.91

**nLight®** The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

#### nLight® Wired Control Accessories

Order as separate catalog number. Visit [nLight](http://nLight.com).

##### Wall Switches

	Model Number
On/Off single pole	nPODM (color)
On/Off two pole	nPODM 2P (color)
On/Off & raise/lower single pole	nPOD DX (color)
On/Off & raise/lower two pole	nPODM 2P DX (color)
Graphic touchscreen	nPOD GFX (color)

##### Photocell Controls

Dimming	nCM ADCX
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#### nLight® Wired Control Accessories (cont.)

##### Occupancy Sensors (PIR/dual tech)

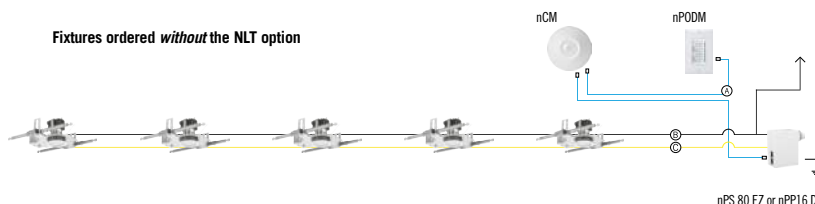
	Model Number
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX

##### Cat-5 Cables (plenum rated)

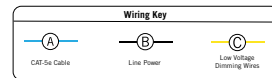
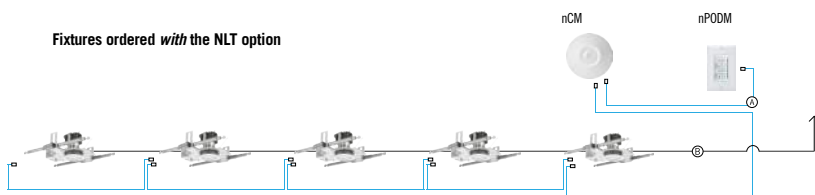
10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1

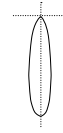
#### Possibilities for nLight® wired

##### Fixtures ordered without the NLT option



##### Fixtures ordered with the NLT option





## High Center Beam Round Recessed Adjustable

4"



### OVERVIEW

#### Feature Set

- Nine optimized distribution patterns allow designers to achieve tailored objectives
- Vertical tilt is self-locking from 0° - 40° with indicator arrow and gauge; 365° of horizontal rotation.
- Cut cones enable optimal efficacies while also occluding the inside of the fixture.
- Bounding Ray<sup>™</sup> optical design
- 45° Cutoff to source and source image
- Field interchangeable optic
- Driver and LED light engine fully serviceable from below ceiling
- 70% lumen maintenance at 60,000 hours
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional

#### Distribution



#### Superior Performance

Nominal Lumens	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000
Delivered	618	710	934	1359	1739	2128	2569	3121	3503	3887	4265
Wattage	6.7	7.5	9.8	15.1	21.5	26.5	34.1	33.8	39.5	46.2	53.2
Efficacy	92	95	95	90	81	80	75	92	89	84	80

\*Based on 3500K 80CRI 35D AR T00 LSS @ 0 Degrees

### COMPLEMENTARY PRODUCTS

#### Coordinated Apertures | Multiple Layers of Light



General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

#### Core



Downlight



Adjustable



Open Wallwash



Lensed Wallwash



Cylinder



Pinhole



Bevel



Hyperbolic

#### Healthcare



MRI



Surgical Suite



Patient Room

#### Special Applications



Dynamic



Food Service



Vandal/Tamper



Clean Room



Shower



Steam Room





Luminaire Type:   
Catalog Number:

EXAMPLE: IC04ADJ 35/15 AR T00 LSS 35D 277 EZ1

Series	Color Temperature	Lumens	Reflector Color	Cut Cone	Flange Type	Reflector Finish
IC04ADJ Incito 4in Round Recessed Adjustable	27/ 2700 K	05 500 lumens	AR Clear	T00 Cut for angles 0°-15°	(blank) Self-flanged	LSS Semi-specular
	30/ 3000 K	07 750 lumens	PR Pewter	T30 Cut for angles 15°-30°	FL <sup>9,10</sup> Flangeless	LD Matte diffuse
	35/ 3500 K	10 1000 lumens	WTR Wheat	T40 Cut for angles 25°-40°		
	40/ 4000 K	15 1500 lumens	GR Gold			
	50/ 5000 K	20 2000 lumens	WR <sup>1</sup> White painted			
		25 2500 lumens	BR <sup>1</sup> Black			
		30 3000 lumens	BZR <sup>1</sup> Dark Bronze painted			
		35 3500 lumens	WRAMF <sup>1</sup> White Anti-microbial			
		40 4000 lumens				
		45 4500 lumens				
		50 5000 lumens				

Beam	Voltage	Driver	Control Interface	Options
10D <sup>2</sup> 10° beam angle	120 120V	GZ10 0-10V driver dims to 10%. Max: 3500LM	(blank)	SF Single fuse.
15D 15° beam angle	277 277V	GZ1 0-10V driver dims to 1%. Max: 3500LM	NLT <sup>7</sup> nLight <sup>®</sup> dimming pack.	90CRI High CRI (90+)
20D 20° beam angle	347 <sup>3,4</sup> 347V	EZ10 eldoLED 0-10V ECOdrive. Linear dimming to 10% min.	NLTER <sup>7,8</sup> nLight <sup>®</sup> dimming pack for fixtures on emergency circuit	CP <sup>11</sup> Chicago Plenum
25D 25° beam angle		EZ1 eldoLED 0-10V ECOdrive. Linear dimming to 1% min.	NLTAIR2 nLight <sup>®</sup> AIR dimming pack.	TRW <sup>9</sup> White Painted Flange
30D 30° beam angle		EZB eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.	NLTAIRER2 <sup>8</sup> nLight <sup>®</sup> AIR dimming pack for fixtures on emergency circuit	TRBL <sup>10</sup> Black Painted Flange
35D 35° beam angle		EDAB <sup>6</sup> eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.	NLTAIREM2 nLight <sup>®</sup> AIR dimming pack for fixtures on emergency circuit	N80 nLight Lumen Compensation
40D 40° beam angle		EDXB <sup>5,6</sup> eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. MIN:1000 MAX:4000		RRL RELOC <sup>®</sup> Ready Luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Available only with RRLA, RRLB, RRLAE, and RRLC12S. Refer to RRL spec sheet on <a href="http://www.acuitybrands.com">www.acuitybrands.com</a> for RELOC <sup>®</sup> product specifications. Above ceiling access required.
45D 45° beam angle		ECOD <sup>6</sup> Lutron <sup>®</sup> EcoSystem <sup>®</sup> digital Hi-Lume 1% soft-on, fade to black. Min: 500LM; Max: 4000LM.		
50D 50° beam angle				

ACCESSORIES —order as separate catalog numbers (shipped separately)

OPTC4 XXD Additional optics for field installation. Replace "XX" with beam angle.

ORDERING NOTES

- Not Available with Finishes.
- Only available 1500lm and below.
- Not available with ELR emergency option.
- Supplied with factory installed step down transformer.
- Includes terminator resistor.
- Not Available with Control Interfaces.
- Must specify 120 or 277.
- For use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not available with WR (White Reflector).
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not available with BR (Black Reflector).
- CP only available up to 3000 lumens. Specify 120 or 277



### Optical and Trim Assembly

Fully serviceable and upgradeable lensed LED light engine suitable for field maintenance or service from above or below the ceiling. Optical design is a Bounding Ray™ design with 45° cutoff to source and source image. Top down flash characteristic for superior glare control. Vertical tilt is self-locking from 0° - 40° with indicator arrow and gauge, engages with a manual tilt locking screw for added aiming assurance. Cut cones enable optimal efficacies while also occluding the inside of the fixture. 365° of horizontal rotation enabled through self-lubricating polymer which never binds or deforms. Cam lock locks rotation to ensure integrity of design throughout lifetime of luminaire.

### Electrical

The luminaire shall operate from a 50 or 60 Hz  $\pm 3$  Hz AC line over a voltage ranging from 120 VAC to 277 VAC. Support 347V via fixture-mounted stepdown transformer. The fluctuations of line voltage shall have no visible effect on the luminous output. The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output. Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages. Input wires shall be 18AWG, 300V minimum solid copper. All drivers are ROHS compliant.

### Controls

Luminaire shall be equipped with interface for nLight wired or nLight AIR networks with integral power supply as per specification.

### Emergency

luminaires supplied with a battery pack comply with NFPA 101 (Life Safety code) and deliver constant light output throughout the 90 minutes of code required emergency operation period when there is a normal AC power loss with remote test switch available.

### Dimming

The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 - 10%, 100 - 1.0% or 100 - 0.1% of rated lumen output with a smooth shut off function to step to 0%. eldoLED LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered. Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

### Construction

Light engine and driver are accessible from above or below ceiling. 16-gauge black painted steel mounting frame with mounting bars included. Post-installation adjustment possible from above or below ceiling. Galvanized steel junction box with hinged access covers and spring latch. Three combination 1/2"-3/4" and one 1/2" knockout for straight-through conduit runs. Capacity: 8 (4 in, 4 out) No. 12 AWG conductors rated for 90°C. Accommodates up to 5/8"-thick ceilings.

### Listings

Fixtures are CSA Certified to meet US and Canadian Standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, damp location listed. IC-rated up to 1500 lumens.

### Government Procurement

BAA - Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations. BABA - Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

### Photometrics

LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours. Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 60,000 hours and operate within a tolerance of <2.5 MacAdam ellipse as defined by the center of the quadrangles defined in ANSI C78.377-2015.

### Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

### Note:

Actual performance may differ as a result of end user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C.

### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning when used with Acuity Brands controls products.

*All configurations of this luminaire are calibrated and tested to meet the Acuity Brands' specifications for chromatic consistency – including color rendering, color fidelity, and color temperature tolerance around standard CIE chromaticity coordinates.*

To learn more about Acuity A+ standards, specifications, and testing, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).



ICO - eldoLED Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
EZ10	10%	Linear	Linear/Logarithmic
EZ1	1%	Linear	Linear/Logarithmic
EZB	<1%	Logarithmic	Linear
EDAB	<1%	Logarithmic*	Linear
EDXB	<1%	Square	Linear

\*Changable thorough DALI controller

Lumen Output Multiplier		
CRI	CCT	Multiplier
80	2700K	0.916
	3000K	0.948
	3500K	1
	4000K	1.032
	5000K	1.1
90	2700K	0.748
	3000K	0.8
	3500K	0.838
	4000K	0.845
	5000K	0.945

Reflector Finish Multiplier	
Reflector Finish	Multiplier
LS - Specular	1
LSS - Semi Specular	0.956
WR - White	0.87
LD - Matte Diffuse	0.85
BR - Black	0.73
BZR - Bronze	0.73

Driver		Control Provided				
Nomenclature	Description	NLT	NLTER	NLTAIR2	NLTAIREM2	NLTAIRER2
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2
GZ1	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2
EZ10	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2
EZ1	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2
EZB	eldoLED 0-10V SOLOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2

Marked Spacing in Inches 25°C Ambient			
Lumen Package	Fixed Center to Center MIN	Fixture Center to Building Member MIN	Space Above Fixture
3000-5000 (All driver options)	24	12	0.5



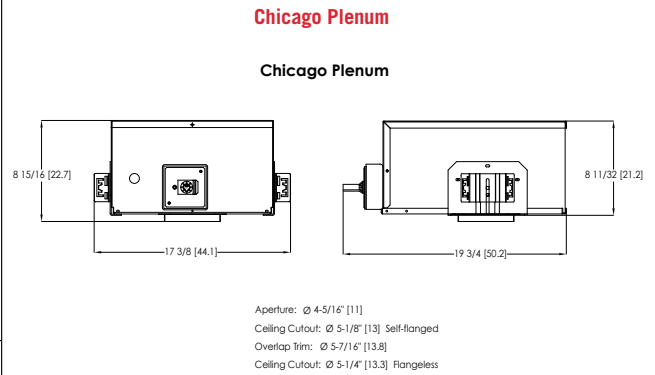
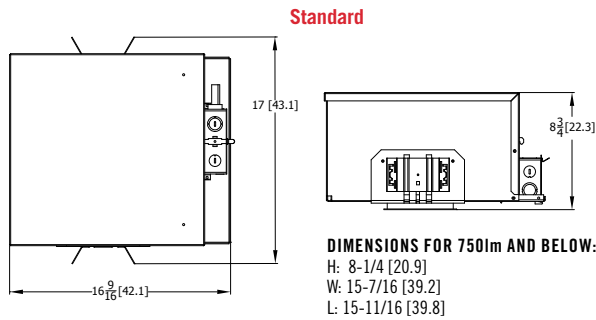
\*Dimensions in inches [centimeters]

Aperture: 4-5/16 [11]

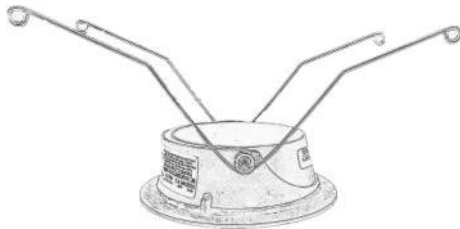
Ceiling Opening: 5-1/8 [13] self-flanged

Overlap Trim: 5-7/16 [13.8]

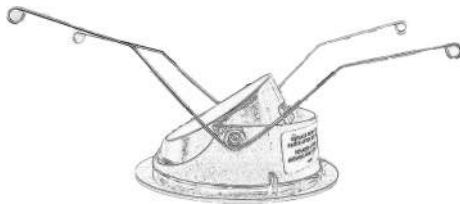
Ceiling Opening: 4-5/8 [11.7] flangeless



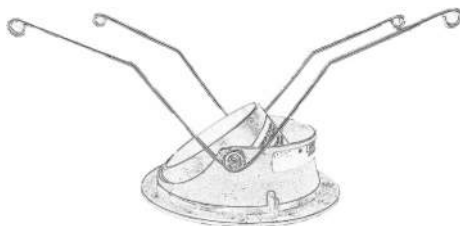
**T00 Cut Cone for 0° - 15° Tilt**



**T30 Cut Cone for 15° - 30° Tilt**

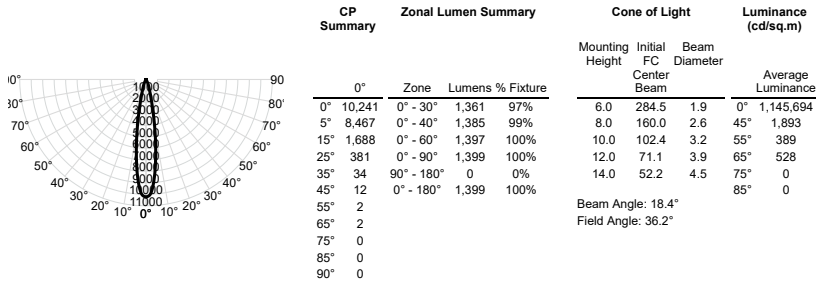


**T40 Cut Cone for 26° - 40° Tilt**

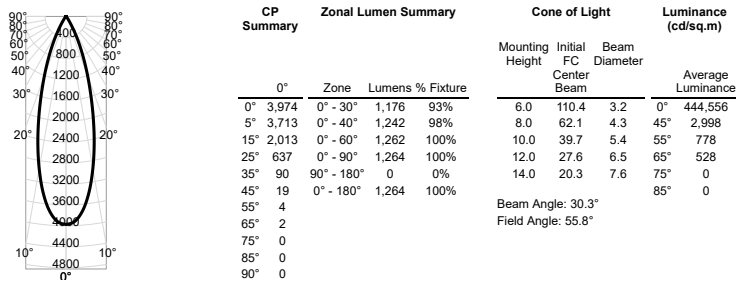


CONSULT WWW.GOTHAMLIGHTING.COM FOR ADDITIONAL PHOTOMETRY

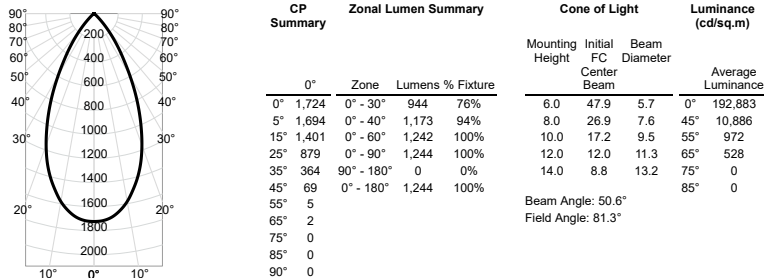
ICO4ADJ 35/15 AR T00 LSS 15D at 0DEG Input Watts: 15.1, Delivered Lumens: 1399, LPW: 92.6, S/MH: 0.31, Test No: ISF 193855P101



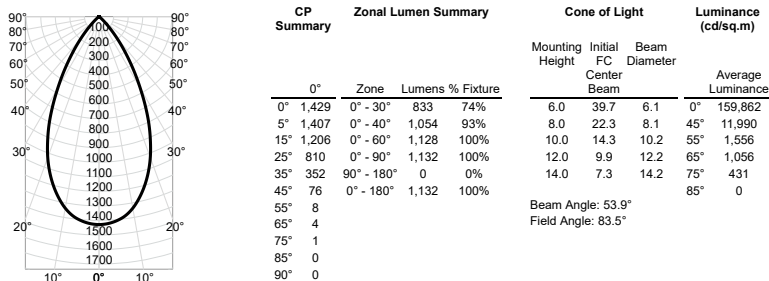
ICO4ADJ 35/15 AR T00 LSS 30D at 0DEG Input Watts: 15.1, Delivered Lumens: 1264, LPW: 83.7, S/MH: 0.50, Test No: ISF 193858P101



ICO4ADJ 35/15 AR T00 LSS 45D at 0DEG Input Watts: 15.1, Delivered Lumens: 1244, LPW: 82.4, S/MH: 0.79, Test No: ISF 20509P101



ICO4ADJ 35/15 AR T00 LSS 50D at 0DEG Input Watts: 15.1, Delivered Lumens: 1132, LPW: 75.0, S/MH: 0.84, Test No: ISF 193862P101



NLIGHT AIR

**nLight® AIR** is the ideal solution for retrofit or new construction spaces where adding communication wiring is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each EVO Luminaire ordered with the NLTAIR option. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.

**nLight® AIR Control Accessories**

Order as separate catalog number. Visit [nLight AIR](#).

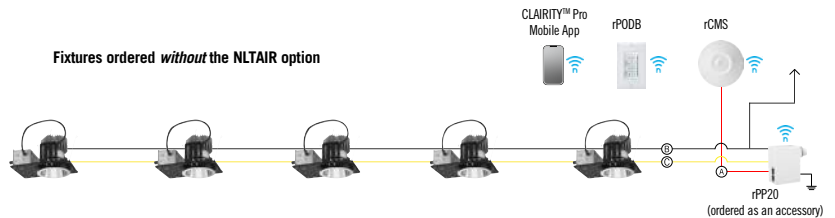
Wall Switches	Model Number
On/Off single pole	rPODB (color) G2
On/Off two pole	rPODB 2P (color) G2
On/Off & raise/lower single pole	rPODB DX (color) G2
On/Off & raise/lower two pole	rPODB 2P DX (color) G2

**nLight® AIR Control Accessories (cont.)**

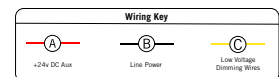
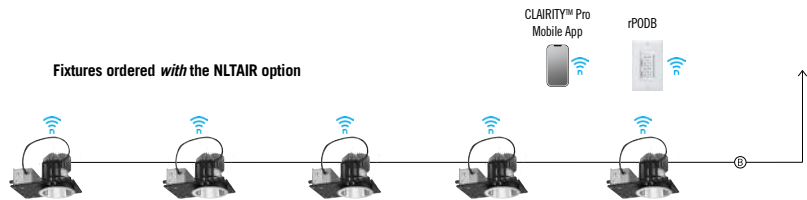
Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	rCMS 9 / rCMS PDT 9
Large motion 360°, ceiling	rCMS 10 / rCMS PDT 10

**Possibilities for nLight® AIR**

**Fixtures ordered *without* the NLTAIR option**



**Fixtures ordered *with* the NLTAIR option**



NLIGHT

**nLight® Wired** The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

**nLight® Wired Control Accessories**

Order as separate catalog number. Visit [nLight](#).

Wall Switches	Model Number
On/Off single pole	nPODM (XX)
On/Off two pole	nPODM 2P (XX)
On/Off & raise/lower single pole	nPOD DX (XX)
On/Off & raise/lower two pole	nPODM 2P DX (XX)
Graphic touchscreen	nPOD GFX (XX)

**Photocell Controls**

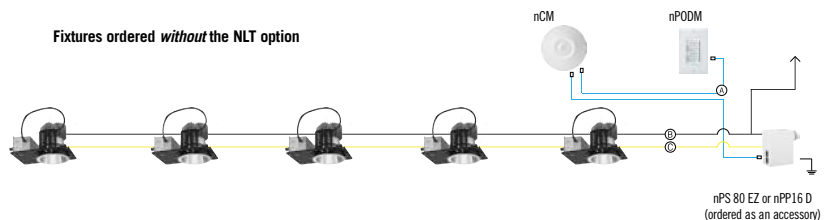
Dimming	nCM ADCX
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**nLight® Wired Control Accessories (cont.)**

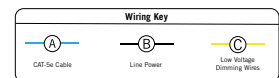
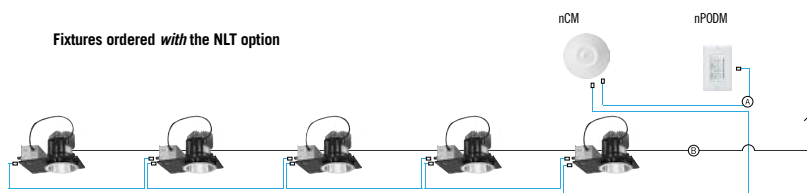
Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX
Cat-5 Cables (plenum rated)	
10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1

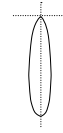
**Possibilities for nLight® wired**

**Fixtures ordered *without* the NLT option**



**Fixtures ordered *with* the NLT option**





## High Center Beam Round Downlight

4"

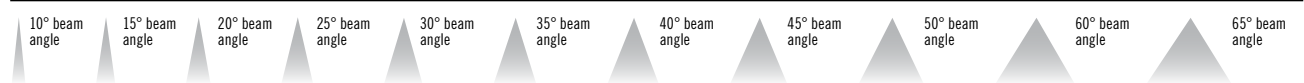


OVERVIEW

### Feature Set

- Eleven optimized distribution patterns allow designers to achieve tailored objectives
- Bounding Ray™ optical design
- 45° Cutoff to source and source image
- Field interchangeable optic
- Driver and LED light engine fully serviceable from below ceiling
- 70% lumen maintenance at 60,000 hours
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional
- Fixtures are wet location, covered ceiling

### Distribution



### Superior Performance

Nominal Lumens	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000
Delivered	703	807	1062	1545	1977	2419	2920	3548	3982	4419	4848
Wattage	6.7	7.5	9.8	15.1	21.5	26.5	34.1	33.8	39.5	46.2	53.2
Efficacy	104	108	108	102	92	91	86	105	101	96	91

\*Based on 3500K 80CRI 35D AR LSS



Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit [www.acuitybrands.com/designselect](http://www.acuitybrands.com/designselect).  
\*See ordering tree for details

COMPLEMENTARY PRODUCTS

### Coordinated Apertures | Multiple Layers of Light



















General Illumination Layer | EVO



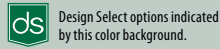
High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

									<b>Core</b>
Downlight	Open Wallwash	Lensed Wallwash	Cylinder		Downlight	Adjustable	Lensed Wallwash	Cylinder	
									<b>Healthcare</b>
MRI	Surgical Suite	Patient Room							
									<b>Special Applications</b>
Dynamic	Food Service	Vandal	Clean Room	Shower					





Luminaire Type:   
Catalog Number:

EXAMPLE: IC04 35/15 AR LSS 35D 277 EZ1

Series	Color Temperature	Lumens	Reflector Color	Flange Type	Reflector Finish	Beam
IC04 Incito 4in Round Downlight	27/ 2700 K	05 500 lumens	AR Clear	(blank) Self-flanged	LSS Semi-specular	100 <sup>1</sup> 10° beam angle
	30/ 3000 K	07 750 lumens	PR Pewter	FL Flangeless	LD Matte diffuse	150 15° beam angle
	35/ 3500 K	10 1000 lumens	WTR Wheat			200 20° beam angle
	40/ 4000 K	15 1500 lumens	GR Gold			250 25° beam angle
	50/ 5000 K	20 2000 lumens	WR <sup>1</sup> White painted			300 30° beam angle
		25 2500 lumens	BR <sup>1</sup> Black			350 35° beam angle
		30 3000 lumens	BZR <sup>1</sup> Dark Bronze painted			400 40° beam angle
		35 3500 lumens	WRAMF <sup>1</sup> White Anti-microbial			450 45° beam angle
		40 4000 lumens	TRALTB <sup>1,2</sup> RAL paint for pricing only			500 50° beam angle
		45 4500 lumens	TCPC <sup>1</sup> Custom paint color			600 60° beam angle
		50 5000 lumens				650 65° beam angle

Voltage	Driver	Control Interface	Options
120 120V	GZ10 0-10V driver dims to 10%	(blank)	SF Single fuse.
277 277V	GZ1 0-10V driver dims to 1%	NLT <sup>9</sup> nLight <sup>®</sup> dimming pack.	90CRI High CRI (90+)
347 <sup>4,5</sup> 347V	EZ10 eldoLED 0-10V ECOdrive. Linear dimming to 10% min.	NLTER <sup>9,9</sup> nLight <sup>®</sup> dimming pack for fixtures on emergency circuit	TRW <sup>10</sup> White Painted Flange
	EZ1 eldoLED 0-10V ECOdrive. Linear dimming to 1% min.	NLTAIR2 nLight <sup>®</sup> AIR dimming pack.	TRBL <sup>11</sup> Black Painted Flange
	EZB eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.	NLTAIRER2 <sup>9</sup> nLight <sup>®</sup> AIR dimming pack for fixtures on emergency circuit	FRALTB <sup>2</sup> Flange ring only RAL color for pricing only
	EDAB <sup>7</sup> eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.	NLTAIREM2 nLight <sup>®</sup> AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit with battery pack options.	FCPC Flange custom paint color
	EDXB <sup>5,6</sup> eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. MIN:1000 MAX:4000		ELR <sup>12</sup> Battery pack with remote test switch
	ECOD <sup>7</sup> Lutron <sup>®</sup> EcoSystem <sup>®</sup> digital Hi-Lume 1% soft-on, fade to black. Min: 500LM; Max: 4000LM.		CP <sup>13</sup> Chicago Plenum
			N80 nLight Lumen Compensation
			RRL RELOC <sup>®</sup> Ready Luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Available only with RRLA, RRLB, RRLAE, and RRLC12S. Refer to RRL spec sheet on <a href="http://www.acuitybrands.com">www.acuitybrands.com</a> for RELOC <sup>®</sup> product specifications. Above ceiling access required.

ACCESSORIES — order as separate catalog numbers (shipped separately)

OPTC4 XxD Additional optics for field installation. Replace "XX" with beam angle.

ORDERING NOTES

- Not Available with Finishes.
- Replace with applicable RAL number and finish when ready to order. See RAL BROCHURE for available color options. Not available with emergency battery pack options. Not available with FL (flangeless) option.
- Only available 1500lm and below.
- Not available with ELR emergency option.
- Supplied with factory installed step down transformer.
- Includes terminator resistor.
- Not Available with Control Interfaces.
- Must specify 120 or 277.
- For use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not available with WR (White Reflector). Not available with FL.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not available with BR (Black Reflector). Not available with FL.
- Must specify 120 or 277. Not available with 347. Require 13 1/2" above ceiling access for use with ELR option.
- Only available up to 3000 lumens. Specify 120 or 277.





#### Optical and Trim Assembly

Fully serviceable and upgradeable lensed LED light engine suitable for field maintenance or service from above or below the ceiling. Optical design is a Bounding Ray™ design with 45° cutoff to source and source image. Top down flash characteristic for superior glare control. Flangeless trim option includes proprietary Gotham mud ring enabling seamless integration into drywall applications. Mud ring ships separately.

#### Electrical

The luminaire shall operate from a 50 or 60 Hz  $\pm 3$  Hz AC line over a voltage ranging from 120 VAC to 277 VAC. Support 347V via fixture-mounted stepdown transformer. The fluctuations of line voltage shall have no visible effect on the luminous output. The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output. Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages. Input wires shall be 18AWG, 300V minimum solid copper. All drivers are ROHS compliant.

#### Controls

Luminaire shall be equipped with interface for nLight wired or nLight AIR networks with integral power supply as per specification.

#### Emergency

Luminaires supplied with a battery pack comply with NFPA 101 (Life Safety code) and deliver constant light output throughout the 90 minutes of code required emergency operation period when there is a normal AC power loss with remote test switch available.

#### Dimming

The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 – 10%, 100 – 1.0% or 100 – 0.1% of rated lumen output with a smooth shut off function to step to 0%. eldoLED LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered. Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

#### Construction

Light engine and driver are accessible from above or below ceiling. 16-gauge black painted steel mounting frame with mounting bars included. Post-installation adjustment possible from above or below ceiling. Galvanized steel junction box with hinged access covers and spring latch. Three combination 1/2"-3/4" and one 1/2" knockout for straight-through conduit runs. Capacity: 8 (4 in, 4 out) No. 12 AWG conductors rated for 90°C. Accommodates up to 1 1/2"-thick ceilings.

#### Listings

Fixtures are CSA Certified to meet US and Canadian Standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, wet location covered ceiling. IC-rated up to 1000 lumens.

#### Photometrics

LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours. Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 6,000 hours and operate with a tolerance of <2.5 MacAdam ellipse as defined by the center of the quadrangles defined in ANSI C78.377-2015.

#### Government Procurement

BAA - Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations. BABA - Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

#### Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

#### Note:

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#### A+ Capable Luminaire

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*All configurations of this luminaire are calibrated and tested to meet the Acuity Brands' specifications for chromatic consistency – including color rendering, color fidelity, and color temperature tolerance around standard CIE chromaticity coordinates.*

To learn more about Acuity A+ standards, specifications, and testing, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).



IC0 - eldoLED Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
EZ10	10%	Linear	Linear/Logarithmic
EZ1	1%	Linear	Linear/Logarithmic
EZB	<1%	Logarithmic	Linear
EDAB	<1%	Logarithmic*	Linear
EDXB	<1%	Square	Linear

\*Changeable through DALI controller

Lumen Output Multiplier		
CRI	CCT	Multiplier
80	2700K	0.916
	3000K	0.948
	3500K	1
	4000K	1.032
	5000K	1.1
90	2700K	0.748
	3000K	0.8
	3500K	0.838
	4000K	0.845
	5000K	0.945

Reflector Finish Multiplier	
Reflector Finish	Multiplier
LS - Specular	1
LSS - Semi Specular	0.956
WR - White	0.87
LD - Matte Diffuse	0.85
BR - Black	0.73
BZR - Bronze	0.73

Driver		Control Provided				
Nomenclature	Description	NLT	NLTER	NLTAIR2	NLTAIREM2	NLTAIRER2
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2
GZ1	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2
EZ10	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2
EZ1	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2
EZB	eldoLED 0-10V SOL0drive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2

Marked Spacing in Inches 25°C Ambient			
Lumen Package	Fixed Center to Center MIN	Fixture Center to Building Member MIN	Space Above Fixture
5000	24	12	0.5
3500-4500 (GZ1/GZ10 Only)	24	12	0.5
4000-4500 w/CP (EZ1/EZ10 Only)	24	12	0.5
3500-4500 w/CP (GZ1/GZ10 Only)	24	12	0.5

ELR Availability/Compatibility – Initial Lumens			
LED			Initial Lumens
Product	Lumens	Watts	ELR
IC04	500-5000	6-53	630



\*Dimensions in inches [centimeters]

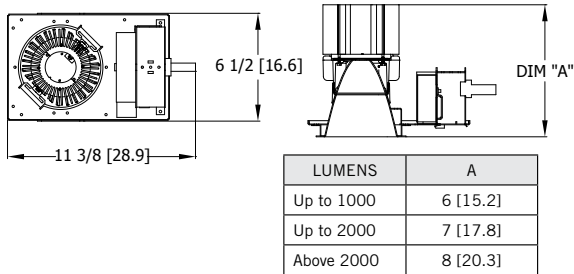
Aperture: 4-5/16 [11]

Ceiling Opening: 5-1/8 [13] self-flanged

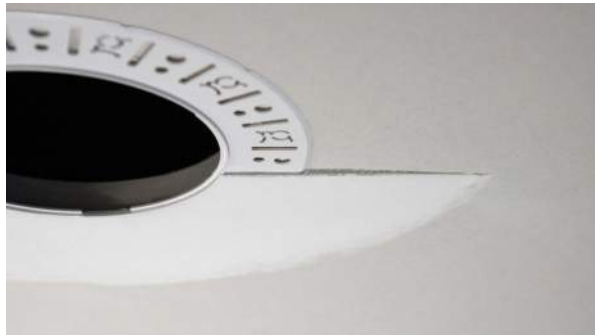
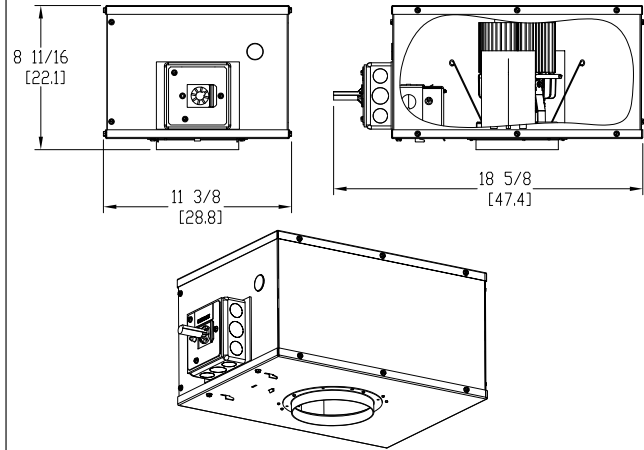
Overlap Trim: 5-7/16 [13.8]

4-5/8 [11.7] flangeless

Standard



Chicago Plenum



Partially finished mud ring, showing cross-section detail.

Flangeless Installation

Gotham's flangeless option utilizes a micro-thin polymer mud ring that minimizes the amount of drywall compound required to finish the ceiling. The end result is a virtually undetectable flangeless downlight installation.

The polymer mud ring is installed independent of the of the recessed frame, therefore floating with the ceiling. This innovation minimizes any surface cracks during reflector installation, ceiling movement and any future service to the recessed frame, wiring, electronics, etc.



An ICO downlight requires only approximately 3" of plaster to finish.

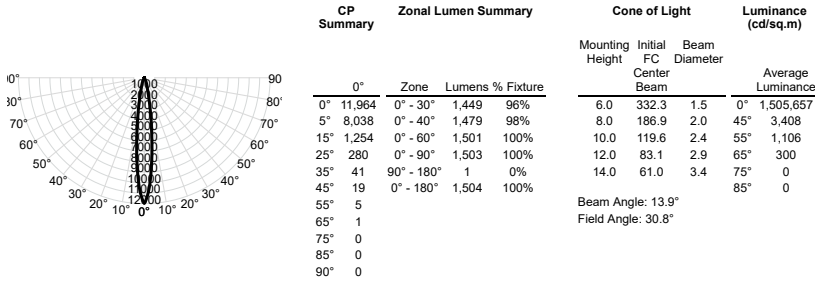


ICO with flangeless trim

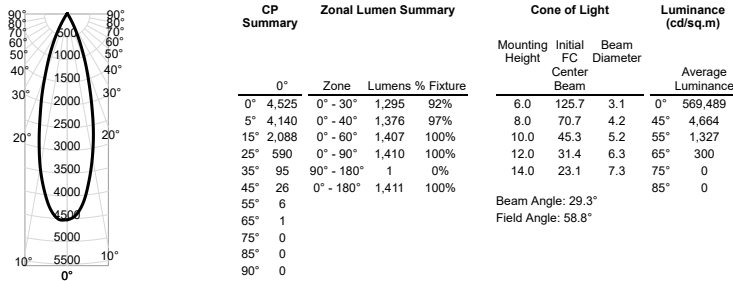


CONSULT WWW.GOTHAMLIGHTING.COM FOR ADDITIONAL PHOTOMETRY

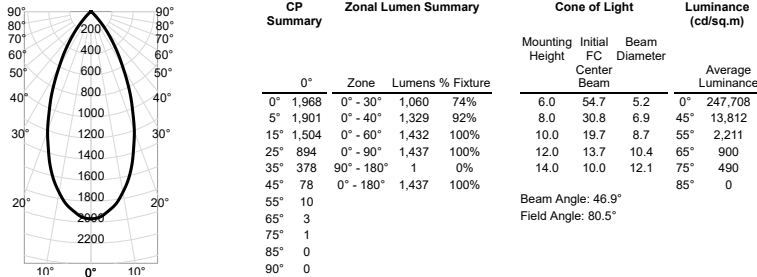
ICO4 35/15 AR LSS 15D Input Watts: 15.1, Delivered Lumens: 1504, LPW: 99.6, S/MH: 0.24, Test No: ISF 192654P563



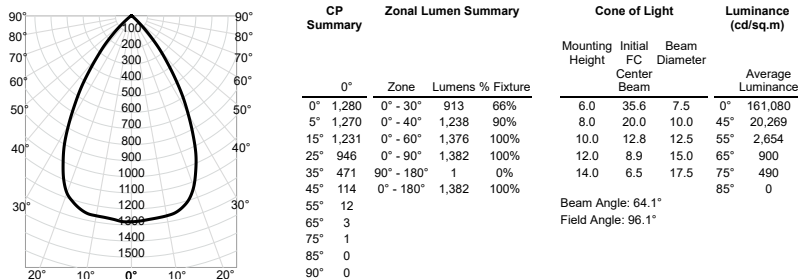
ICO4 35/15 AR LSS 30D Input Watts: 15.1, Delivered Lumens: 1411, LPW: 93.4, S/MH: 0.47, Test No: ISF 192657P563



ICO4 35/15 AR LSS 45D Input Watts: 15.1, Delivered Lumens: 1437, LPW: 95.2, S/MH: 0.73, Test No: ISF 192660P563



ICO4 35/15 AR LSS 65D Input Watts: 15.1, Delivered Lumens: 1382, LPW: 91.5, S/MH: 0.98, Test No: ISF 192663P563



**nLight® AIR** is the ideal solution for retrofit or new construction spaces where adding communication wiring is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each EVO Luminaire ordered with the NLTAIR option. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.

#### nLight® AIR Control Accessories

Order as separate catalog number. Visit [nLight AIR](#).

Wall Switches	Model Number
On/Off single pole	rPODB (color) G2
On/Off two pole	rPODB 2P (color) G2
On/Off & raise/lower single pole	rPODB DX (color) G2
On/Off & raise/lower two pole	rPODB 2P DX (color) G2

#### nLight® AIR Control Accessories (cont.)

Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	rCMS 9 / rCMS PDT 9
Large motion 360°, ceiling	rCMS 10 / rCMS PDT 10

#### UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the **CLAIRITY+** mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

**nLight®** The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

#### nLight® Wired Control Accessories

Order as separate catalog number. Visit [nLight](#).

Wall Switches	Model Number
On/Off single pole	nPODM (color)
On/Off two pole	nPODM 2P (color)
On/Off & raise/lower single pole	nPOD DX (color)
On/Off & raise/lower two pole	nPODM 2P DX (color)
Graphic touchscreen	nPOD GFX (color)

#### Photocell Controls

Dimming	nCM ADCX
---------	----------

#### nLight® Wired Control Accessories (cont.)

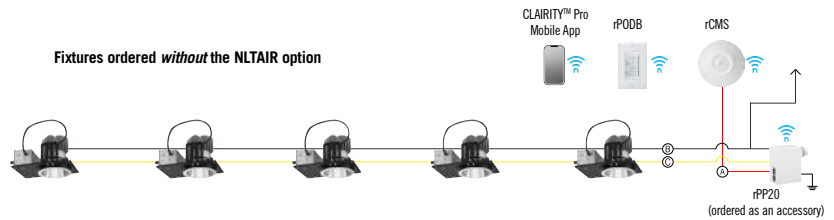
Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX

#### Cat-5 Cables (plenum rated)

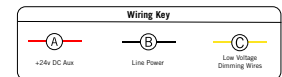
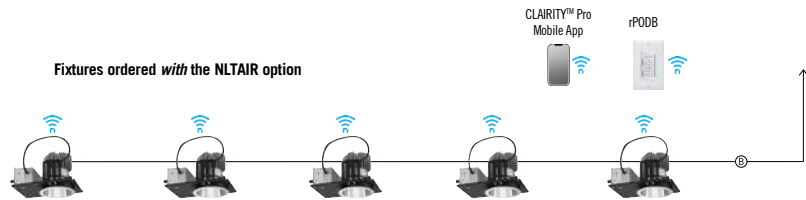
10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1

#### Possibilities for nLight® AIR

##### Fixtures ordered *without* the NLTAIR option

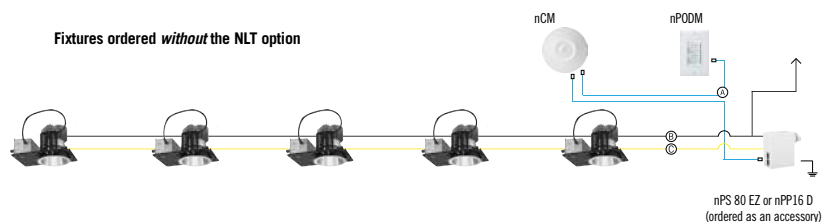


##### Fixtures ordered *with* the NLTAIR option

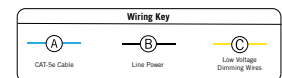
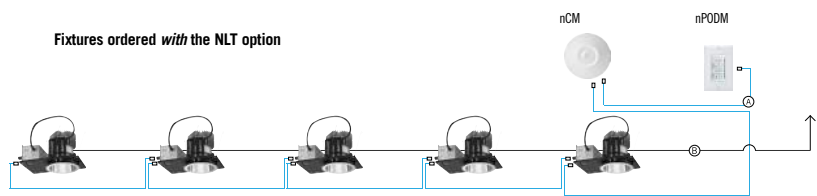


#### Possibilities for nLight® wired

##### Fixtures ordered *without* the NLT option



##### Fixtures ordered *with* the NLT option



Lighting Fixture Type Not Used



**ALULA Lighting Design**

155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LK1**

*Page 1 of 1*

## DATE

## PROJECT

## TYPE



### PRODUCT FEATURES

- Seamless Spot Free Illumination
- Ultra Slim
- Close Pitch LEDs
- Bend Direction Horizontally
- Dimmable with 0-10V, Forward/Reverse Phase
- Indoor and Outdoor Application
- 8 Colors Available
- Quick Ship Available
- Field Cut-able (1.52')
- Available in Standard Lengths of 1,2,3,4,5M Reels

### PRODUCT SPECIFICATIONS

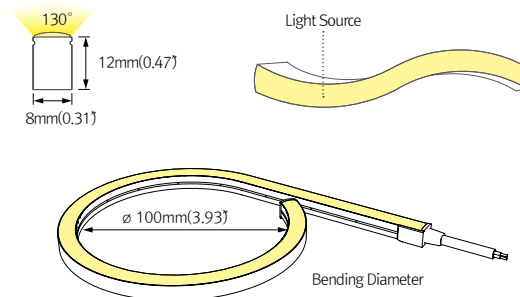
IP Rate	IP67 with Factory Termination (Customized Length Available)
	IP65 with Field Termination
	IP20 with Indoor Termination
Lamp Power	3.8W/ft (12.5W/m)
Power Input	24V DC
Color Rendering	Ra>80
Operating Temperature Ranges	14°F to 122°F (-10°C to 50°C)
Maximum Length	16.42ft (5,005mm)
Minimum Length	1.51in (38.5mm)
Minimum Bending Diameter	3.93in (100mm)
Beam Angle	130°
Material	PVC

### SPECIFICATIONS TABLE



Model Number	Color	Lamp Power	Luminous Flux (lm/ft)	Lumen/W
FN1 22K-24V	2200K	3.8W/ft	109	29lm/W
FN1 27K-24V	2700K		114	30lm/W
FN1 30K-24V	3000K		126	33lm/W
FN1 35K-24V	3500K		135	35lm/W
FN1 40K-24V	4000K		135	35lm/W

### PHYSICAL SPECIFICATIONS



### SPECIFICATION GUIDE

NOT TO BE USED FOR ORDERING. The Specification Guide is intended solely to ensure that all options are considered.

MODEL	COLOR		FEED TYPE	MOUNTING	DRIVER		VOLTAGE
FN1							
FN1	22K-2200K 24K-2400K* 27K-2700K 30K-3000K 35K-3500K 40K-4000K	50K-5000K* 60K-6000K* R-Red* G-Green* B-Blue*	STD - Straight Feed LS - Left Side Feed BS - Bottom Feed*	STD - Flat Brackets BK2 - 15°/40° Brackets EXL - 4Extrusion*	NDM Non-Dim FDC 0-10 Interface	FDH Forward Phase RDH Reverse Phase	120V 240V 277V

\* Available, As Special Order Consult Feelux Lighting

FEELUX Lighting, Inc., 3000 Northwoods Parkway, Suite 165, Peachtree Corners, GA 30071 | Tel: 678.668.7005 | feeluxlighting.com  
If you have any questions, please contact your local Feelux Representative. Specifications subject to change without notice. All Rights Reserved. © 2018 Feelux Lighting, Inc.

FN1 1 of 8  
6/2020



**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

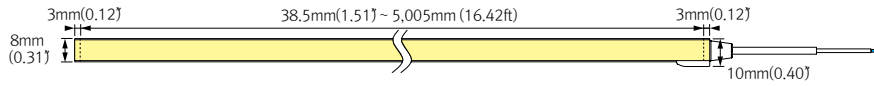
Fixture Type:

**LK2**

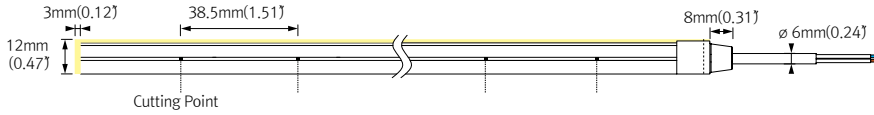
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## DIMENSIONS

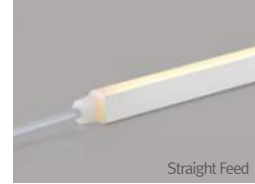
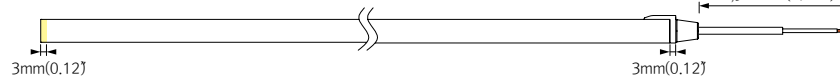
### TOP VIEW



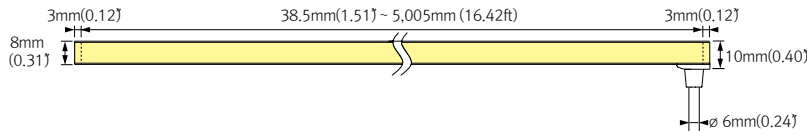
### SIDE VIEW



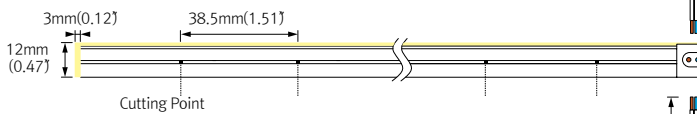
### BOTTOM VIEW



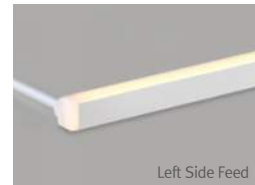
### TOP VIEW



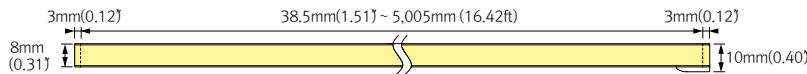
### SIDE VIEW



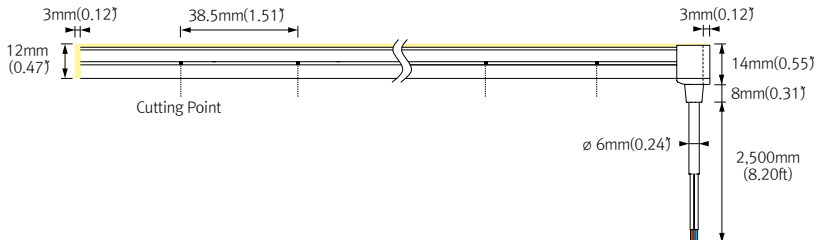
### BOTTOM VIEW



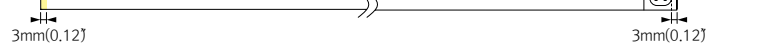
### TOP VIEW



### SIDE VIEW



### BOTTOM VIEW

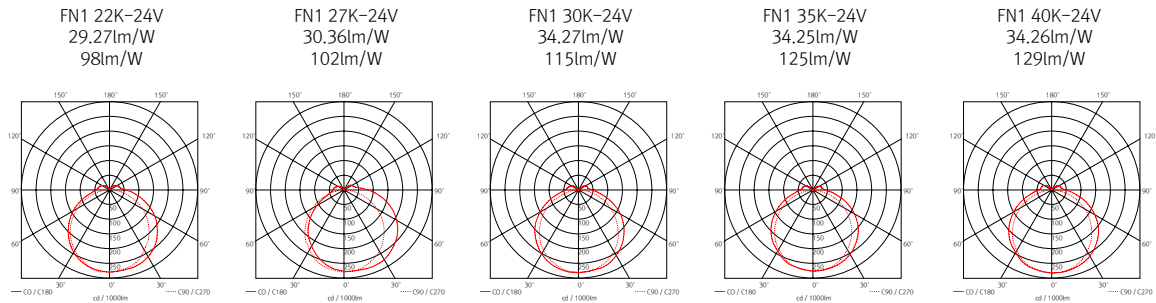


FLXible Neon can be cut every 38.5mm (1.52).  
Please follow the cutting point mark to cut precisely as needed.






## BEAM SPREADS

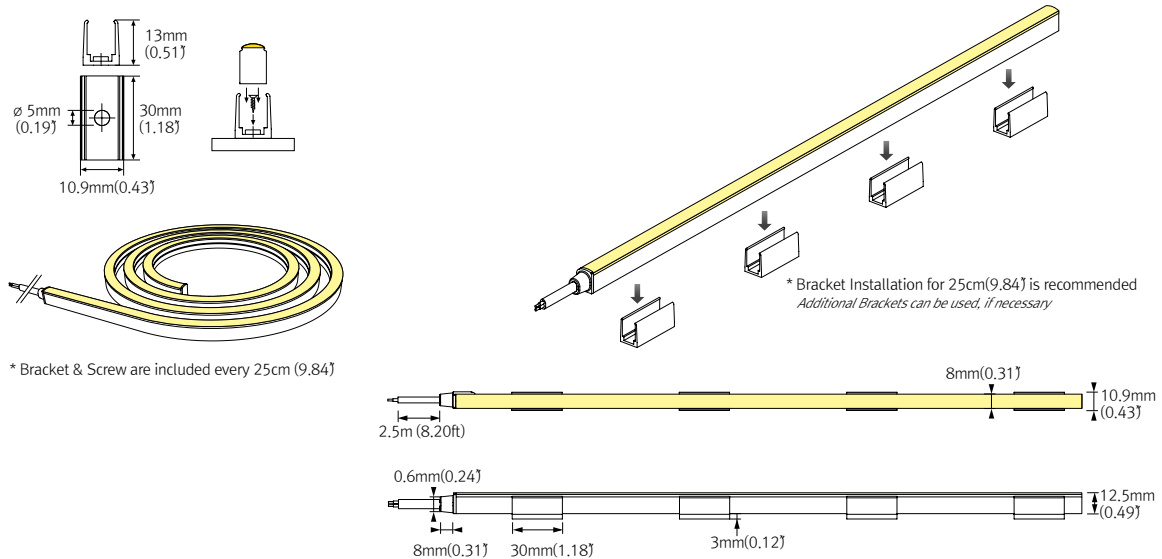


## COMPONENTS

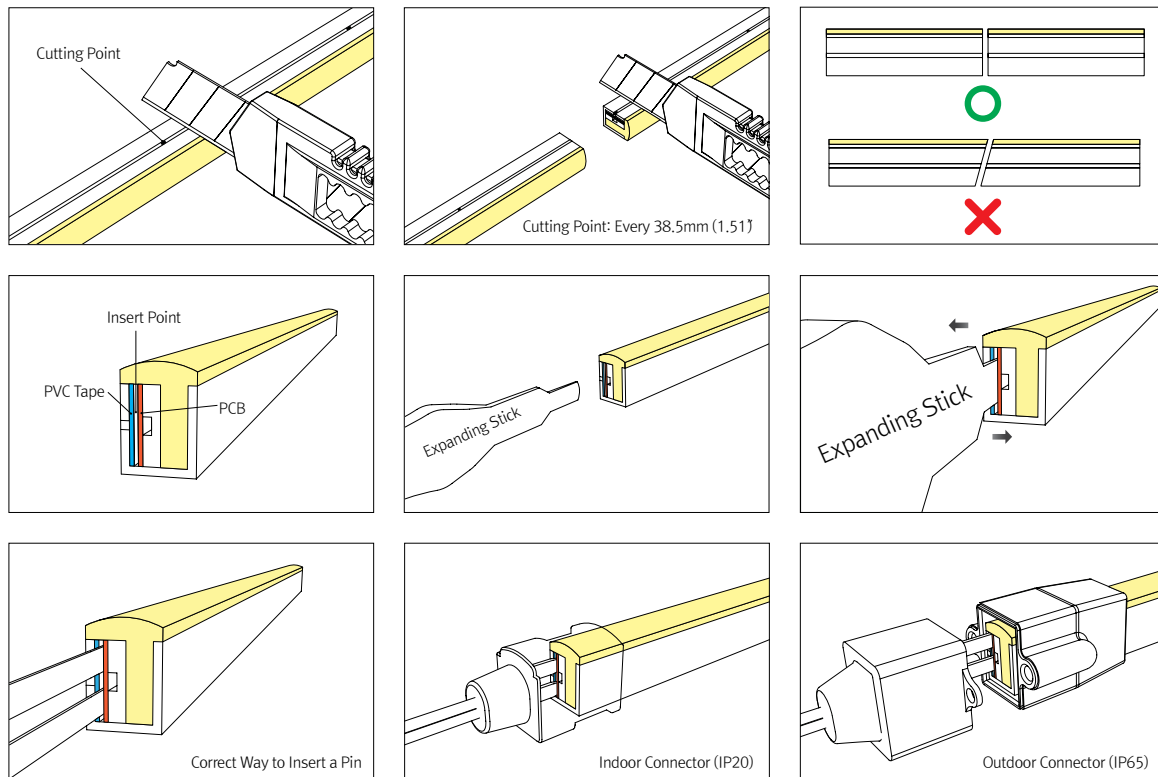
 <p><b>FLXible Neon 1</b>            _FN1-(color)K-24V-5m(16.4)            _FN1-(color)K-24V-4m(13.1)            _FN1-(color)K-24V-3m(9.8)            _FN1-(color)K-24V-2m(6.6)            _FN1-(color)K-24V-1m(3.3)</p>	 <p><b>Indoor Power Cable</b>            _FN1-INPC (8.2)            with END CAP</p>	 <p><b>Dimming Interface</b>            Max. 100W (100W/CH, 1CH)            0-10V Signal            _FDC-L10</p>
 <p><b>Mounting Brackets</b>            _FN1-BRACKET1</p>	 <p><b>Indoor Direct Connector</b>            _FN1-INCP</p>	 <p><b>LED Drivers</b>            With distributor and power cord 1800mm (6)            _FLC30-24V/XL            _FLC75-24V/XL</p>
 <p><b>FN1 Extrusion Line</b>            _FN1-EXL (4)</p>	 <p><b>Indoor Connecting Cable</b>            _FN1-INPTC (6)            _FN1-INPTC1 (1)            _FN1-INPTC2 (2)            _FN1-INPTC4 (4)            _FN1-INPTC6 (6)</p>	 <p><b>Hard Wire Driver</b>            (90V to 300V)            _XLAV80(L)-124V-SSB            _XLD200-224V-FCL-DIM            _XLD75-124V-FC</p>
 <p><b>Angled Brackets</b>            Angled 15°/40°            _FN1-BRACKET2            Optional</p>	 <p><b>Field Termination</b>            _FN1-FTKIT</p>	 <p><b>12 Port Hub</b>            _D12P-HUB            Included with Cord and Plug drivers. Order separately for Hard Wire or 3rd Party Drivers</p>
 <p><b>Expanding Stick</b>            _FN-EPS</p>	<p>A larger selection of drivers are available including remote and hard wire drivers. Please consult factory.</p>	



## INSTALLATION – Bracket

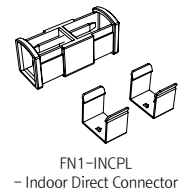
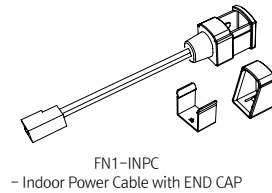


## INSTALLATION – Termination Kit

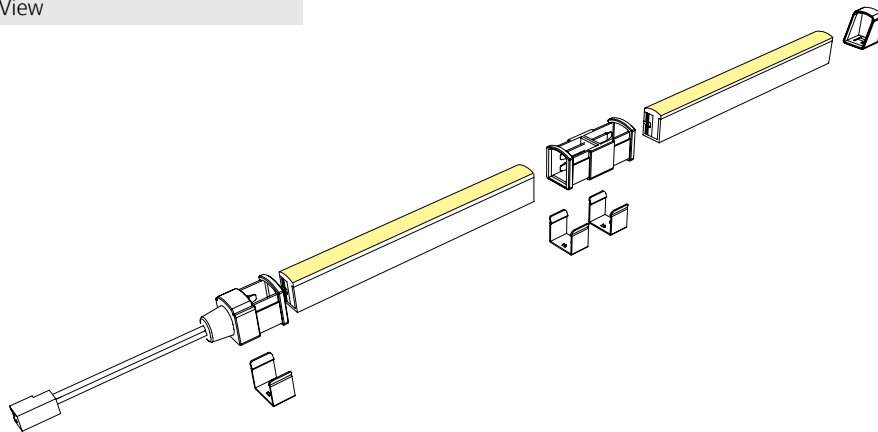


## INSTALLATION – Indoor Termination (IP20)

### \* Components

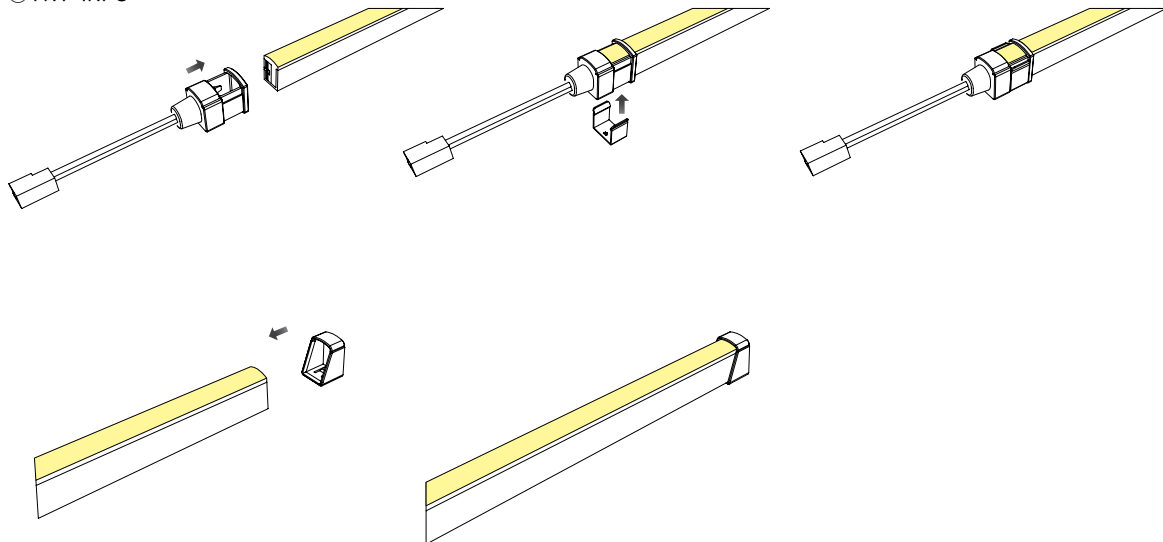


### \* Expanded View

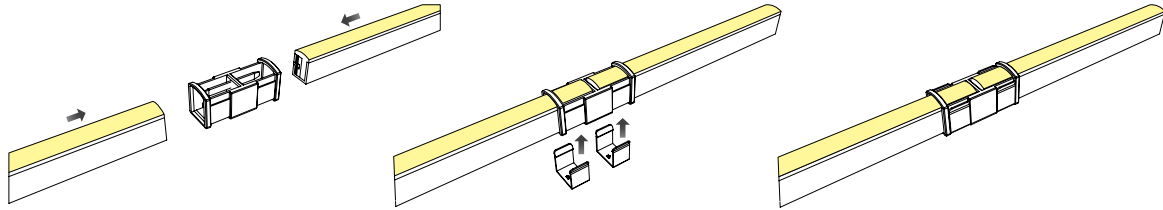


### \* Installation Method

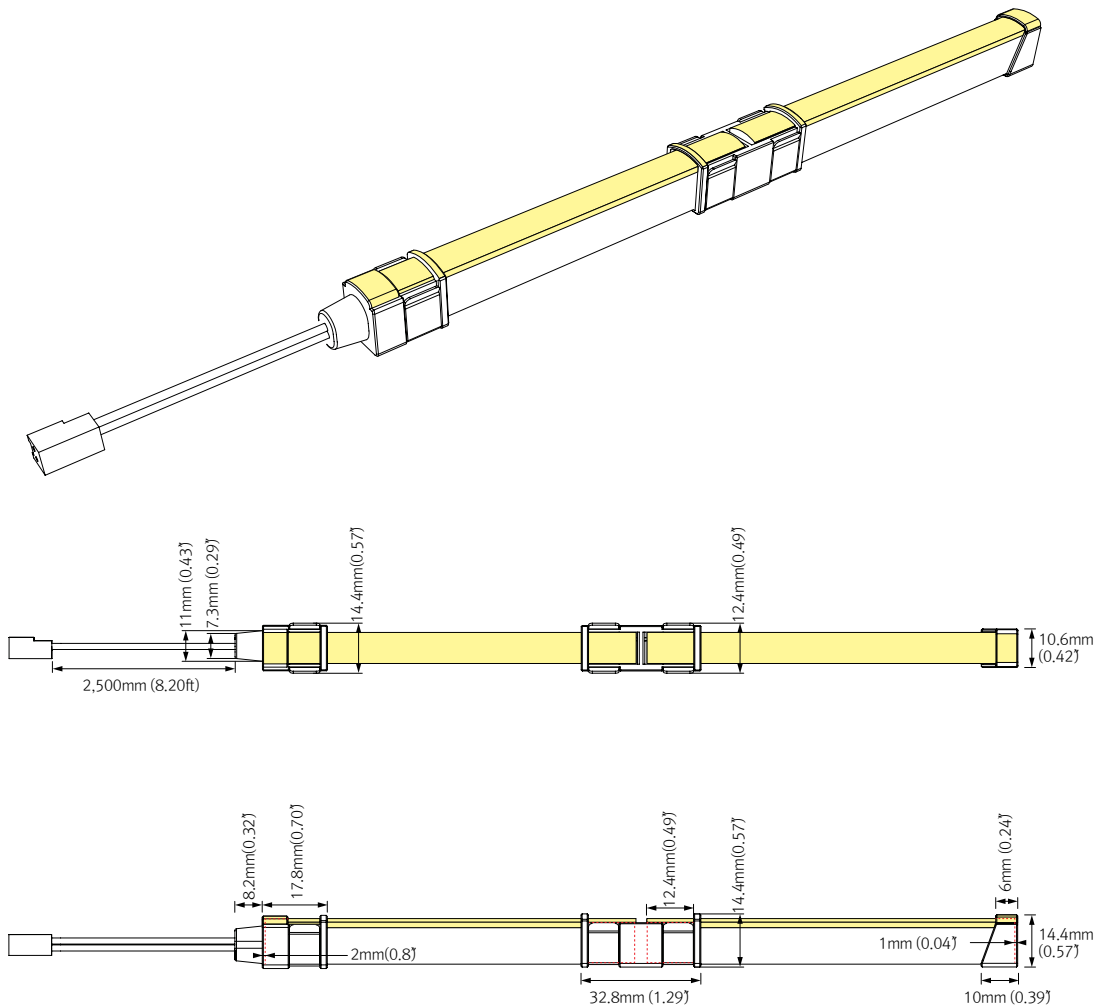
#### ① FN1-INPC



## ② FN1-INCPL

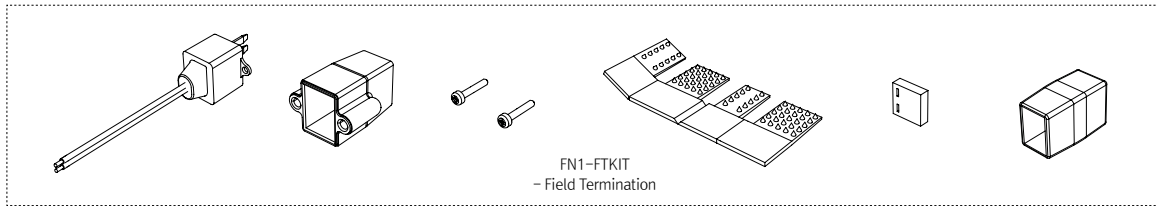


\* Finished view

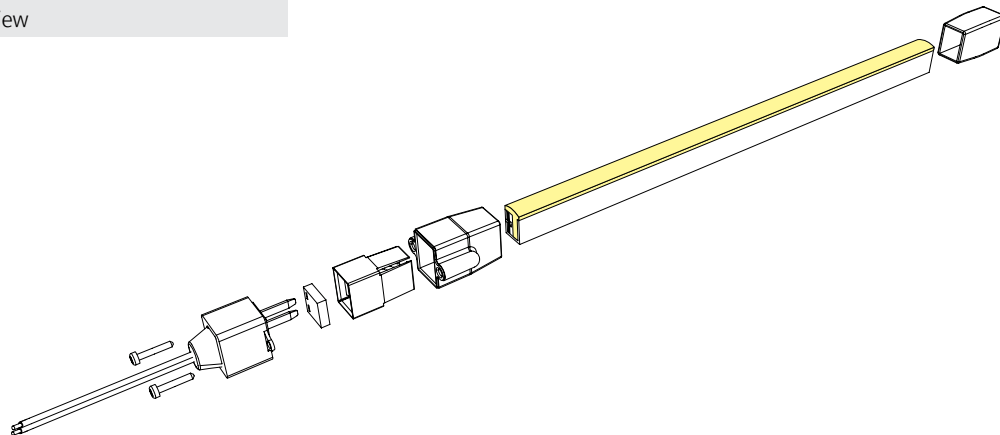


## Installation – Field Termination (IP65)

### \* Components

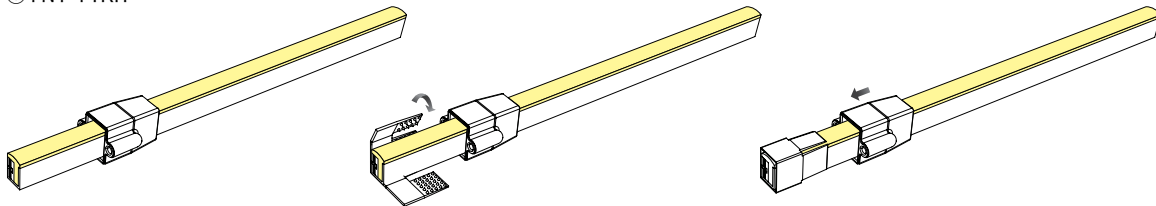


### \* Expanded View

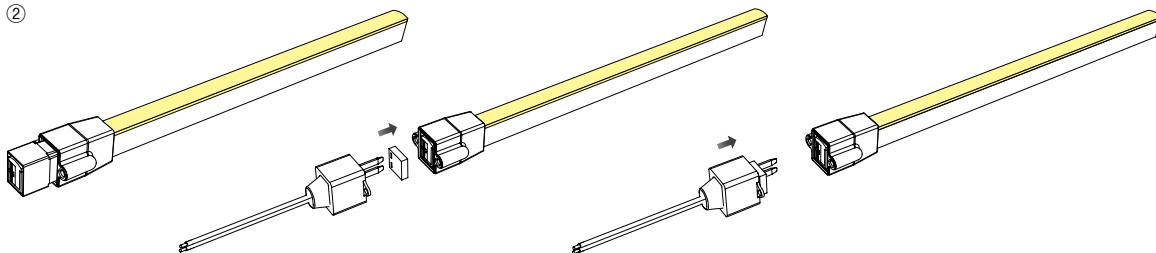


### \* Installation Method

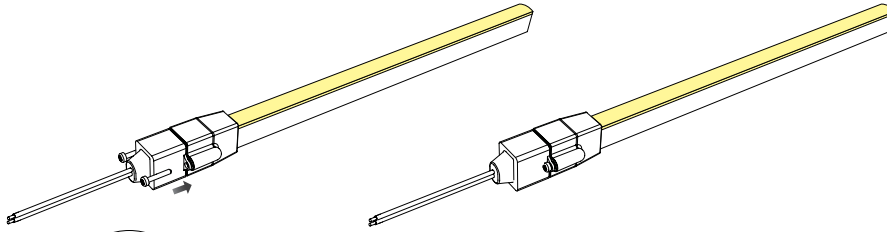
#### ① FN1-FTKIT



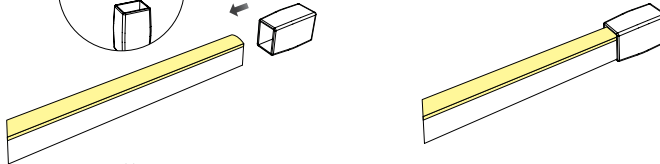
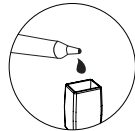
#### ②



③

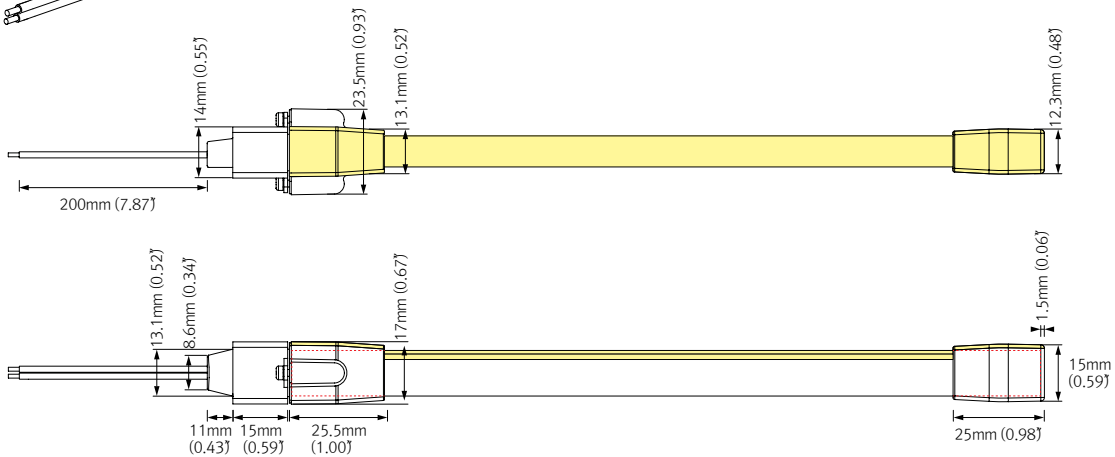
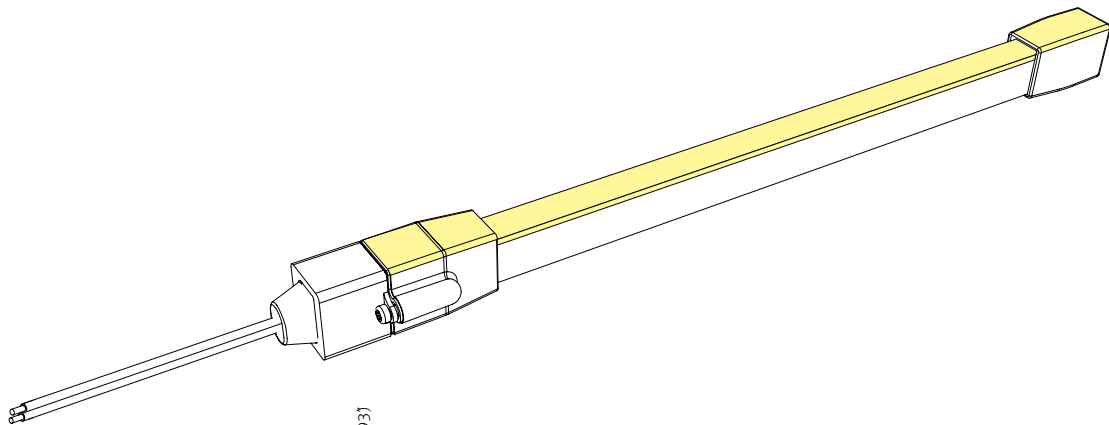


④



\* Use the silicone glue to attach the endcap

\* Finished view



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6/2020



**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LK2**

Page 8 of 8



## Lensed Wall Wash Pendant Stem Cylinder

4"

### OVERVIEW

#### Feature Set

- Anodized kicker reflector provides uniform illumination from floor to ceiling
- Bounding Ray™ optical design
- 45° cutoff to source and source image
- Fully serviceable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional
- Fixtures are damp location standard; Wet location (WL) optional, requires covered ceiling
- Available with 10% dimming, 1% dimming, or dim to dark
- 20 standard colors in textured and gloss finish; custom or RAL colors also available
- Multiple recessed or surface j-box mounting configurations available
- Field cuttable 1/2" stems with concealed couplers.
- UGR of zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg per CIE 117-1995 Discomfort Glare in Interior Lighting. [UGR FAQ](#)

#### Distribution



#### Superior Performance

Nominal Lumens	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500
Delivered Lumens	153	324	457	564	853	1116	1458	1758	2042	2301	2561
Wattage	3.0	6.9	7.5	8.4	14.0	18.8	23.5	28.1	32.2	33.7	38.2
Lumens per Watt	51.9	47.2	60.7	67.2	60.9	59.5	62.0	62.6	63.4	68.3	67.1



### COMPLEMENTARY PRODUCTS

#### Coordinated Apertures | Multiple Layers of Light



General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

#### Core



Downlight



Adjustable



Open Wallwash



Lensed Wallwash



Cylinder



Pinhole



Bevel



Hyperbolic

#### Healthcare



MRI



Surgical Suite



Patient Room

#### Special Applications



Dynamic



Food Service



Vandal/Tamper



Clean Room



Shower



Steam Room



Luminaire Type:

Catalog Number:

EXAMPLE: EV04PCLW 35/15 AR LSS MVOLT EZ1 JBXCC PCAN S12 DWHG

Series	Color Temperature	Lumens	Reflector Color	Reflector Finish	Voltage
EV04PCLW EVO 4in Pendant Stem Round Cylinder Lensed Wall Wash	27/ 2700 K	02 250 lumens	AR Clear	LSS Semi-specular	MVOLT 120V - 277V
	30/ 3000 K	05 500 lumens	PR Pewter	LD Matte diffuse	120 120V
	35/ 3500 K	07 750 lumens	WTR Wheat	LS Specular	277 277V
	40/ 4000 K	10 1000 lumens	GR Gold		347 <sup>3</sup> 347V
	50/ 5000 K	15 1500 lumens	WR <sup>1</sup> White painted		
		20 2000 lumens	BR <sup>1</sup> Black		
		25 2500 lumens	WRAMF <sup>1</sup> White anti-microbial		
		30 3000 lumens	BZR <sup>1</sup> Dark Bronze painted		
		35 3500 lumens	TRALTD <sup>1,2</sup> Trim RAL # TBD (TBD for pricing only)		
		40 4000 lumens	TCPC <sup>1</sup> Trim Custom Paint Color TBD (TBD for pricing only)		
		45 4500 lumens			

Driver <sup>4</sup>	Mounting	Canopy Type	Stem Length <sup>11</sup>
GZ10 0-10V driver dims to 10%	JBX Integral driver, Recessed or Surface J-box	PCAN 5° stem canopy with "hang straight" swivel	S2 2 foot 1/2" stem
GZ1 0-10V driver dims to 1%			S4 4 foot 1/2" stem
EZ10 eldoLED 0-10V ECOdrive. Linear dimming to 10% min.	JBXCC Integral driver, Surface J-box with Conduit Covers	PCAN45 <sup>10</sup> 45° stem canopy with "hang straight" swivel	S6 6 foot 1/2" stem
EZ1 eldoLED 0-10V ECOdrive. Linear dimming to 1% min.			S8 8 foot 1/2" stem
EZB eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.			S10 10 foot 1/2" stem
EDAB <sup>5</sup> eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.	SGB <sup>8,16</sup> Surface Gear Box, Recessed Or Surface J-Box		S12 12 foot 1/2" stem
EDXB <sup>5,8,7</sup> eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Min: 1000LM; Max: 4000LM.	SGBCC <sup>8,16</sup> Surface Gear Box, Surface J-Box With Conduit Covers		S16 16 foot 1/2" stem
ECOD <sup>5</sup> Lutron® EcoSystem® digital Hi-Lume 1% soft-on, fade to black. Max: 4000LM.	RGH <sup>9</sup> Recessed Gear Housing		S20 20 foot 1/2" stem
ELV <sup>5</sup> Electronic line voltage / Forward phase / Triac dimming, 120V Only.			

Emergency Option	Control Interface <sup>12</sup>	Options	Architectural Colors - Powder Paint <sup>2</sup>
(blank) No emergency options	(blank) No controls	90CRI High CRI (90+)	DDB Gloss Dark Bronze
E6W 6W integral emergency battery, CA Title 20 compliant emergency battery pack with integral test switch. Only available with GZ10, GZ1 and ELV Drivers. Only for use with 500-2500 lumen options. Not available with 1500 lumen option.	NLT nLight® dimming pack. Specify 120V or 277V.	CP <sup>14</sup> Chicago Plenum. Specify 120V or 277V (requires RGH)	DBL Matte Black
	NLTER <sup>13</sup> nLight® dimming pack for fixtures on emergency circuit. Specify 120V or 277V.	HAO <sup>15</sup> HAO High Ambient Option (40°C)	DWH Gloss White
	NLTAIR2 nLight® AIR dimming pack. Specify 120V or 277V.	N80 <sup>16</sup> nLight Lumen Compensation	DMB Matte Medium Bronze
E7WCP IOTA® 7W Constant Power emergency battery (sidecar). Only for use with 750-5000 lumen options.	NLTAIRER2 <sup>13</sup> nLight® AIR dimming pack for fixtures on emergency circuit. Specify 120V or 277V.	SF Single fuse. Specify 120V or 277V.	DNA Gloss Natural Aluminum
E10WCP IOTA® 10W Constant Power, CA Title 20 compliant emergency battery pack with integral test switch. Only for use with 1000-5000 lumen options. (sidecar or RGH)		WL <sup>17</sup> Wet Location	DSS Gloss Sandstone
E10WCPR IOTA® 10W Constant Power, CA Title 20 compliant emergency battery pack with remote test switch. Only for use with 1000-4500 lumen options. (requires RGH)			DGC Gloss Charcoal Grey
E15WCP IOTA® 15W Constant Power, CA Title 20 compliant emergency battery. Only for use with 1500-5000 lumen options. (sidecar)			DTG Gloss Tennis Green
GTD IOTA® Generator Transfer Device. Specify 120V or 277V (requires RGH)			DBR Gloss Bright Red
			DSB Gloss Steel Blue
			DDBT Textured Dark Bronze
			DBLB Textured Black
			DWHG Textured White
			DBNH Textured Bronze
			DNAT Textured Natural Aluminum
			DSST Textured Sandstone
			DSPD Textured Dark Grey
			DSPE Textured Green
			DSPH Textured Light Red
			DWHAMF Gloss White with Anti-microbial finish
			RALTD Cylinder RAL # TBD (TBD for pricing only)
			CPC Cylinder Custom Paint Color TBD (TBD for pricing only)





**ACCESSORIES — order as separate catalog numbers (shipped separately)**

<b>GCOLORS KIT</b>	Architectural colors chip kit, consisting of powder-coat and plated finishes
<b>CYLJB0XADPT 4SQ20CT</b> ____	4in Square J-box to 4in Octagonal J-box adaptor. Replace ____ with Architectural Color or PRM for primed ready for field painting
<b>CYLSTBL KIT</b>	Stabilization Kit for securing pendant stem fixtures

**ORDERING NOTES**

- Not Available with Reflector Finishes.
- Replace with applicable RAL number and finish when ready to order. See [RAL BROCHURE](#) for available color options. For details on all Acuity Architectural paint colors, RAL and Custom colors, please see [Architectural Colors](#). Not available with emergency battery pack options.
- Factory supplied step down transformer must be remote mounted. Access required to device.
- Refer to [Tech 240](#) for compatible dimmers.
- Not Available with Control Interfaces.
- Requires SGB, or SGBCC mounting option.
- Includes terminator resistor. Not available with 250-750 lumen packages.
- Only available with DMX driver (EDXB).
- Not available with E6W, E7W or E15WCP Emergency Options.
- Not available with SGB or SGBCC: those mountings require a flat ceiling.
- Stem section adjacent to cylinder can be cut in field to achieve non-uniform lengths (i.e. for a field cut 3' length, order 4' stem).
- Factory installed with RGH option otherwise field installed. Access required to location of remote mounted device.
- ER for use as UL924 Emergency Operation via power sense lead. Will require an emergency hot feed and normal hot feed. EM for use as UL924 Emergency Operation via power interrupt detection.
- CP not valid with NLTAIR2, NLTAIRER2 or E10WCP.
- Only available up to 2500 lumens; up to 2000 lumens WL.
- Fixture begins at 80% light level. Must be specified with NLT or NLTER. Only available with EZ10 and EZ1 drivers.
- Not available with JBXCC, SGB, or SGBCC or sidecar Emergency Options. Max: 3000LM.



### Optical Assembly

Fully serviceable and upgradeable lensed LED light engine suitable for field maintenance or service from below the ceiling. Unitized optics shall have mechanical attachment of the light engine to the lower reflector for complete optical alignment. Wallwash enables uniformity from floor to ceiling. Smooth, balanced illumination optimized for ceilings of 8' to 12' with recommended spacing of 3' from wall and 3' centers.

### Electrical

The luminaire shall operate from a 50 or 60 Hz  $\pm 3$  Hz AC line over a voltage ranging from 120 VAC to 277 VAC. Support 347V via remote-mounted stepdown transformer. The fluctuations of line voltage shall have no visible effect on the luminous output. The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output. Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages. Input wires shall be 18AWG, 300V minimum solid copper. All drivers are ROHS compliant.

### Controls

Luminaire shall be equipped with interface for nLight wired or nLight AIR networks with integral power supply as per specification.

### Emergency

Luminaires supplied with a battery pack comply with NFPA 101 (Life Safety code) and deliver constant light output throughout the 90 minutes of code required emergency operation period when there is a normal AC power loss. Luminaires equipped with a generator transfer device work in conjunction with an auxiliary generator or a central inverter system to power fixtures for safe egress lighting.

### Dimming

The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 – 10%, 100 – 1.0% or 100 – 0.1% of rated lumen output with a smooth shut off function to step to 0%. eldoLED LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered. Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

### Construction

Heaving-gauge aluminum construction. Extruded cylinder body with flangeless reflector allows flow-through passive thermal management. Canopy matches cylinder in finish and diameter.

Pendant stem mount for installation to 4" recessed or surface octagonal junction box with integral driver.

Recessed gear box available for driver above ceiling, nLight, CP, GTD or battery pack options.

Surface gear box available for driver at ceiling installation.

Optional field configurable conduit covers available. Conduit covers match cylinder in finish and diameter.

**WARNING: All pendant fixtures exposed to wind require tethering – see page 6.**

### Listings

Fixtures are CSA Certified to meet US and Canadian Standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, damp location standard; wet location (WL) optional, requires covered ceiling.

Luminaire configurations are Energy Star certified through testing in EPA-recognized laboratories, with the results reviewed by an independent, accredited certification organization. Visit [www.energystar.gov](http://www.energystar.gov) for specific configurations listed.

### Photometrics

LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours.

Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 6,000 hours and operate with a tolerance of <2.5 MacAdam ellipse as defined by the center of the quadrangles defined in ANSI C78.377-2015.

### BUY AMERICAN ACT

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

### Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

### Note:

Actual performance may differ as a result of end user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C.

### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provided consistent color appearance and out-of-the-box control capability with simple commissioning when used with Acuity Brands controls products.

All configurations of this luminaire are calibrated and tested meet the Acuity Brands' specification for chromatic consistency - including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates.

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).



EVO - eldoLED Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
EZ10	10%	Linear	Linear/Logarithmic
EZ1	1%	Linear	Linear/Logarithmic
EZB	<1%	Logarithmic	Linear
EDAB	<1%	Logarithmic*	Linear
EDXB	<1%	Square	Linear

\*Changable thorough DALI controller

Driver		Control Provided (note: 347V/UVOLT versions provided with 347 option selected)			
Nomenclature	Description	NLT	NLTER	NLTAIR2	NLTAIRER2
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2
GZ1	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2
EZ10	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2
EZ1	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2
EZB	eldoLED 0-10V SOLOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2

J-box Compatibility Matrix		Cylinder Configurations					
		JBX	SGB	SGBCC	SGB w/EDXB Driver	SGBCC w/EDXB Driver	JBXCC
Recommended J-box (by others)	4" Octagonal 4x4x1.5 deep"	✓	✓	✓	✓	✓	✓
	4" Octagonal 4x4x2.125 deep	✓	✓	✗	✓	✗	✗
	4" Square 4x4x1.5 deep	*with adaptor plate accessory	*with adaptor plate accessory	✗	*with adaptor plate accessory	✗	✗

### Standard Architectural Color Options for Cylinder Bodies

 <b>DSS LITHONIA</b> P12 Sandstone	 <b>DSST TEXTURED</b> P90 Sandstone	 <b>DBR LITHONIA</b> P34 Bright Red	 <b>DSPH TEXTURED</b> P80 Light Red	 <b>DMB LITHONIA</b> P11 Medium Bronze	 <b>DBNH TEXTURED</b> P74 Bronze	 <b>DTG LITHONIA</b> P33 Tennis Green	 <b>DSPE TEXTURED</b> P78 Green
 <b>DSB LITHONIA</b> P49 Steel Blue	 <b>DNA LITHONIA</b> P07 Natural Aluminum	 <b>DNAT TEXTURED</b> P89 Natural Aluminum	 <b>DGC LITHONIA</b> P32 Charcoal Gray	 <b>DSPD TEXTURED</b> P77 Dark Grey	 <b>ddb LITHONIA</b> P50 Dark Bronze	 <b>DDBT TEXTURED</b> P88 Dark Bronze	 <b>DBL LITHONIA</b> P13 Black
 <b>DBLB TEXTURED</b> P75 Black	 <b>DWH LITHONIA</b> P21 White	 <b>DWHG TEXTURED</b> P86 White					

NOTE: These colors were carefully reproduced to give as true a depiction as possible of finished product color. Some colors, however, may vary slightly from actual appearance due to display/printing variations and limitations. Please order the GCOLORS KIT listed in the 'Accessories' section of the spec sheet for an accurate paint chip sample.



#### Stabilization Kit (CYLSTBL KIT) Accessory

The Stabilization Kit offers additional support for applications where wind may be a factor and the pendant stem cylinder needs to be secured.

#### Cables

Three (3) 20 ft. 304 grade stainless steel aircraft cables with outer diameters of 1/16" are attached to anchoring mechanisms in the mounting surface at one end and the provided stem collar around the pendant stem at the other end.

Cables should be anchored 120° +/- 10° from each other radially and positioned at 45° or greater from the stem for optimal support of the fixture.

#### Clamps and Stem Collars

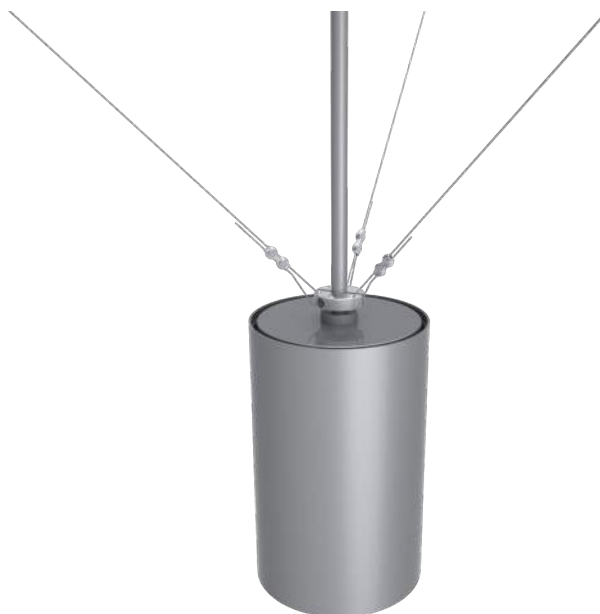
The stem collar consists of two (2) half stem collars made of 304 stainless steel. Both stem collar halves are attached around the pendant stem with 304 stainless steel socket head cap screws.

Six (6) cable clamps made of 304 stainless steel are used in the stabilization kit with two (2) clamps per cable attached to each anchoring point and the stem collar.

The cable tension can be adjusted from either end.

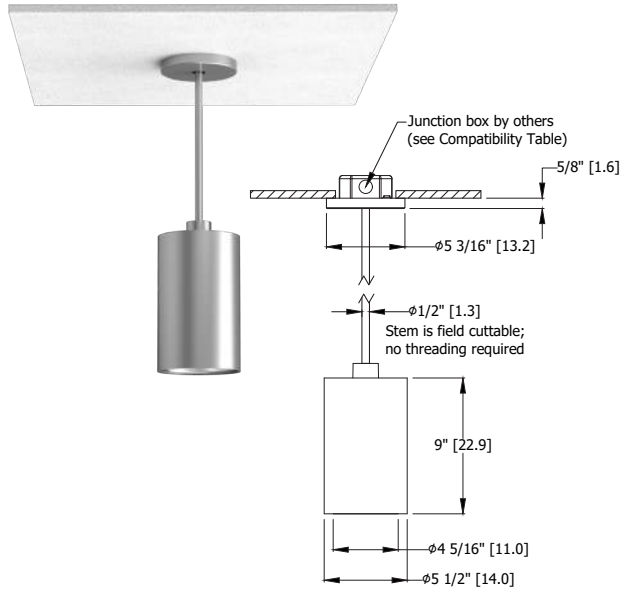
#### Wind Load

The Stabilization Kit is designed to withstand 90mph winds for 3 seconds comparable to ASCE 7-10, MRI 50-year (fixture EPA is 0.2 sq ft)

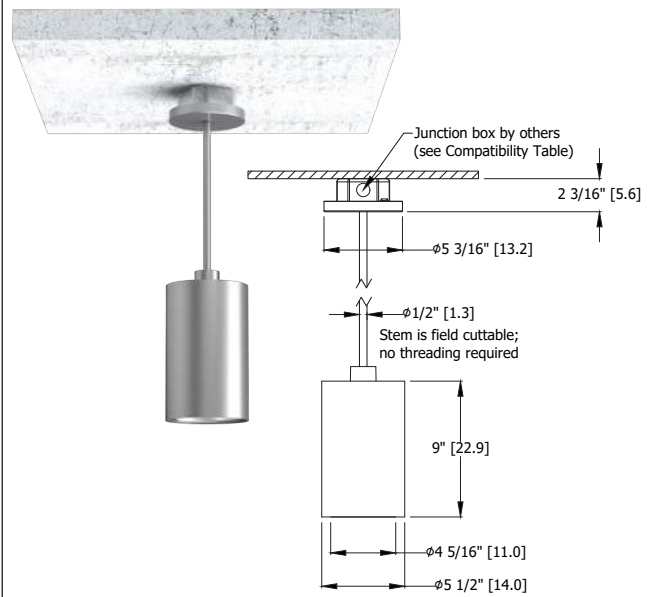


DIMENSIONAL DATA

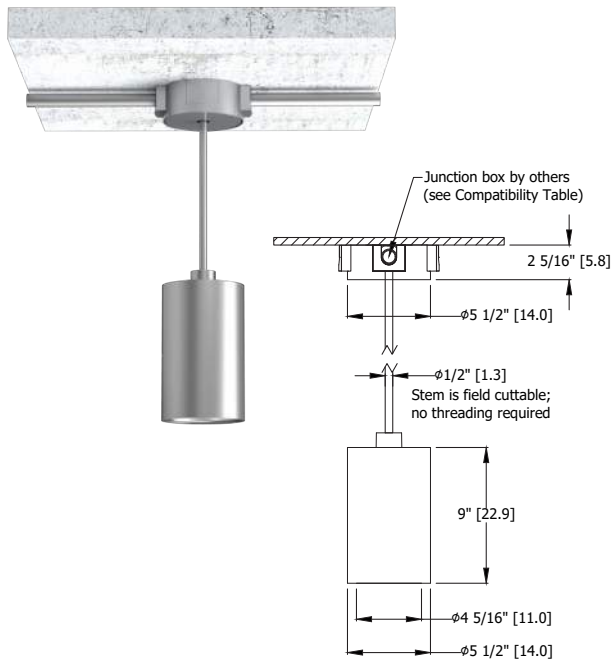
**JBX Recessed J-Box**



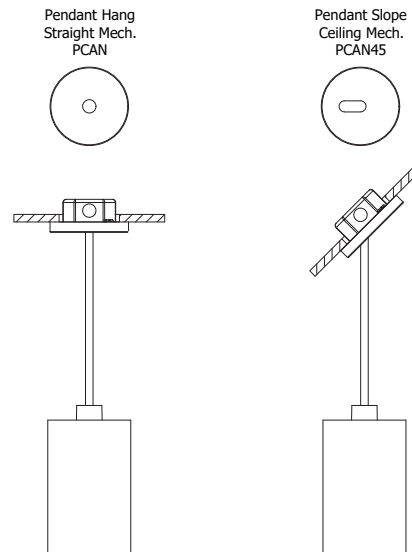
**JBX Surface J-Box**



**JBXCC Surface J-Box with Conduit Covers**



**Canopy Covers for Flat or Sloped Ceilings**



\*Dimensions in inches [centimeters]

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**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

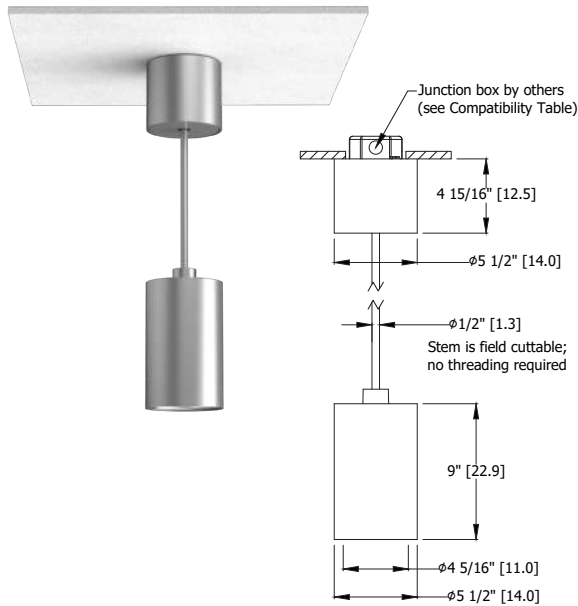
Fixture Type:

**LM1**

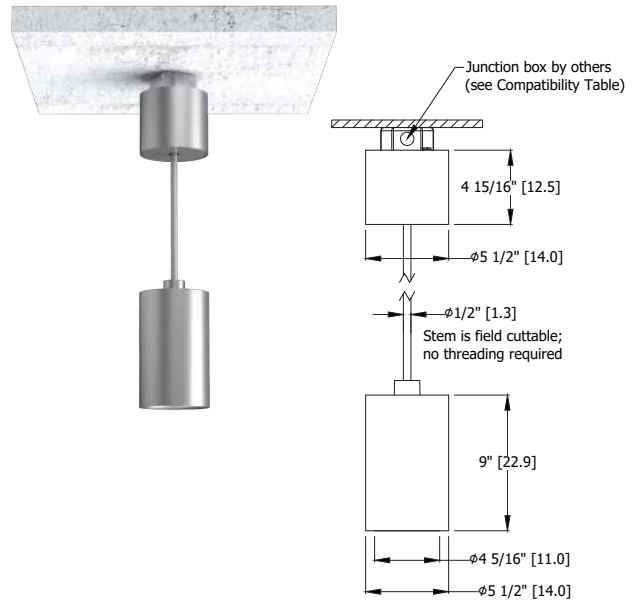
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DIMENSIONAL DATA

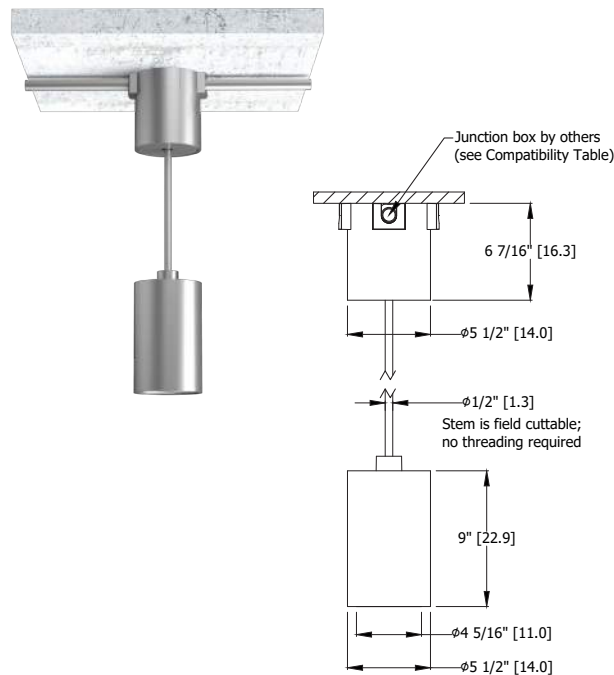
SGB Surface Gear Box for EDXB Recessed J-Box



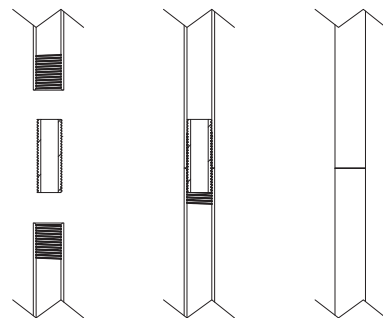
SGB Surface Gear Box for EDXB Surface J-Box



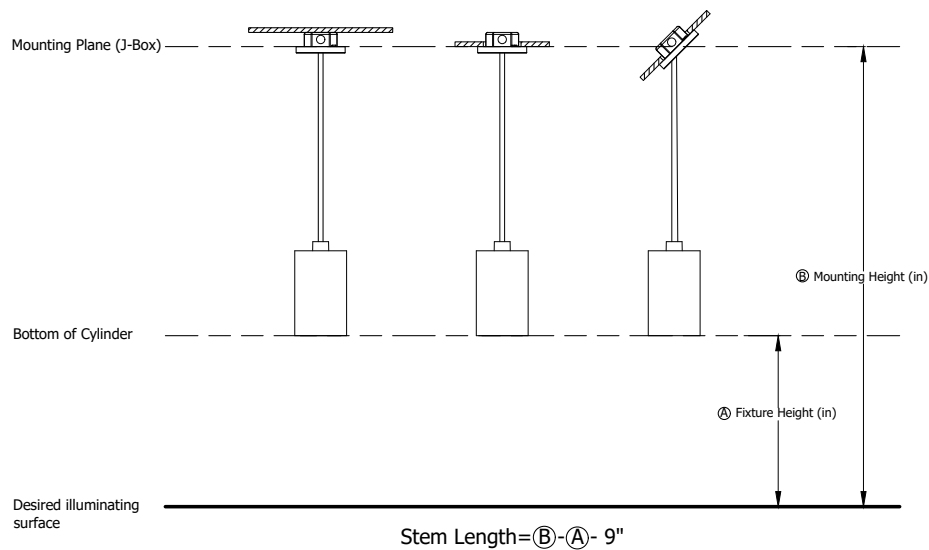
SGBCC Surface Gear Box for EDXB with Conduit Covers



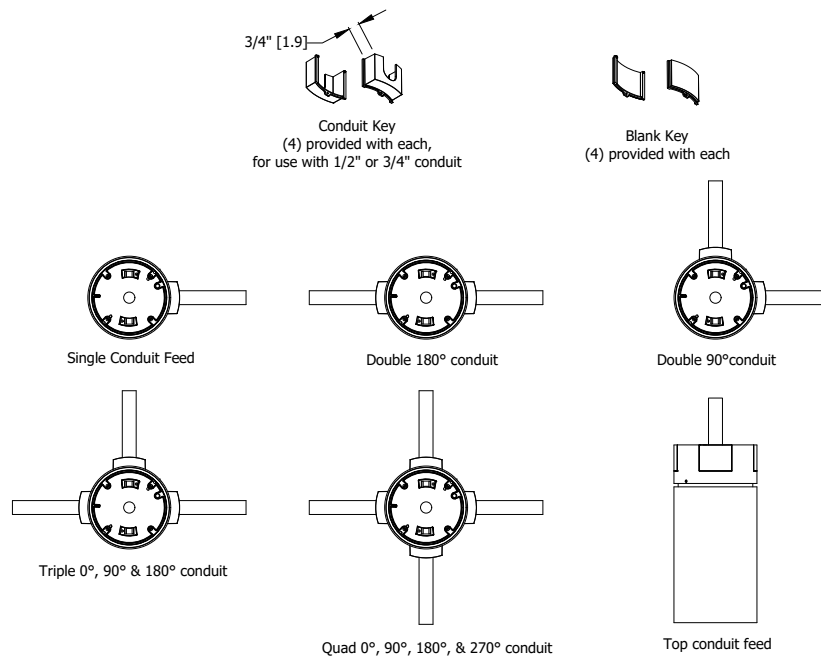
Stem Connection Method



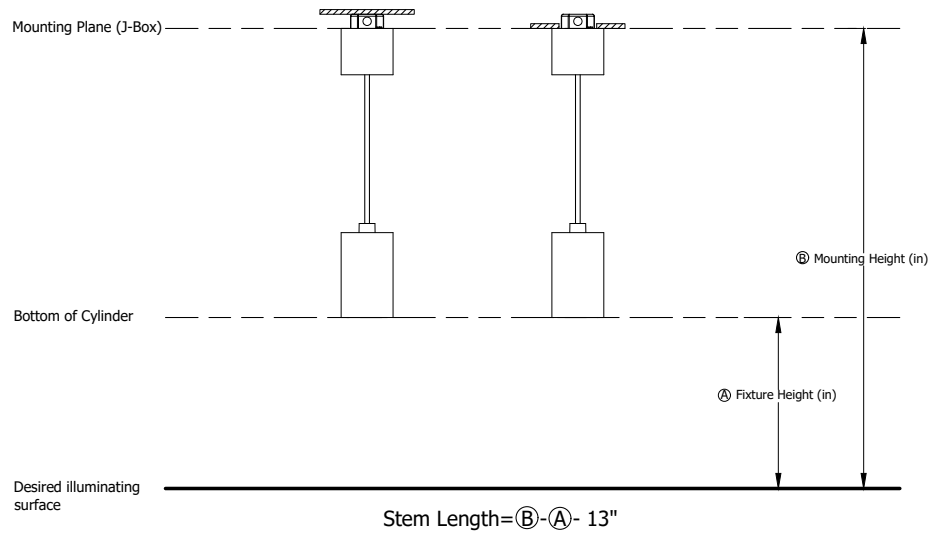
Stem Cutting Formulas for JBX/JBXCC



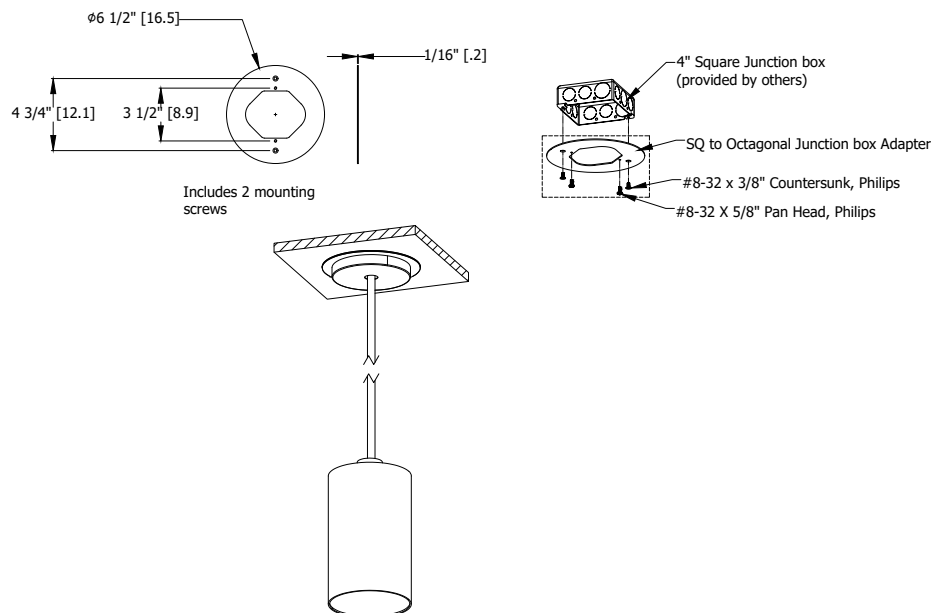
Conduit Feed Examples and Keys



Stem Cutting Formulas for SGB

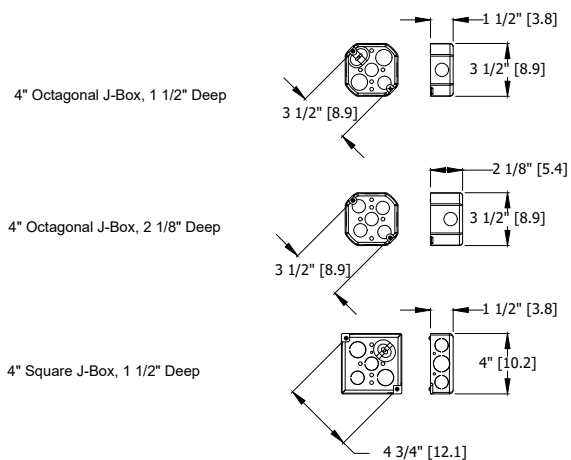


Cylinder Adaptor Plate

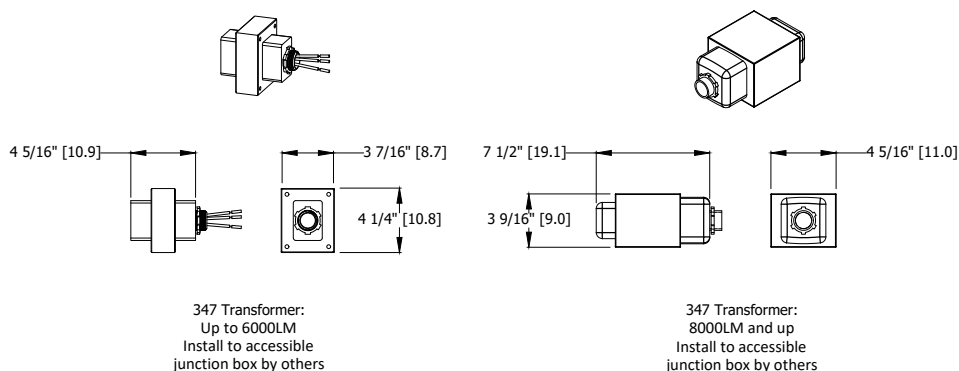




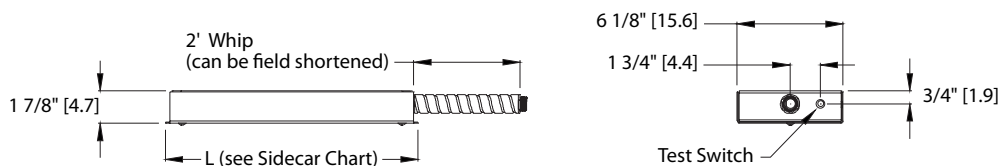
### Junction Box Dimensions (by others)



### 347V Stepdown Transformer



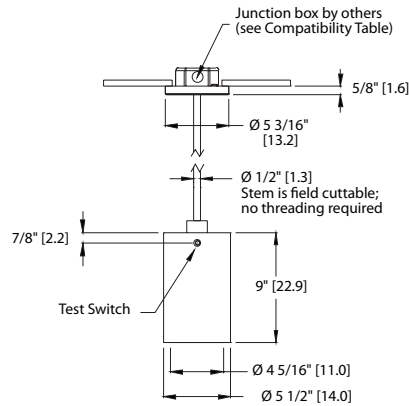
### Emergency Battery Sidecar Dimensions



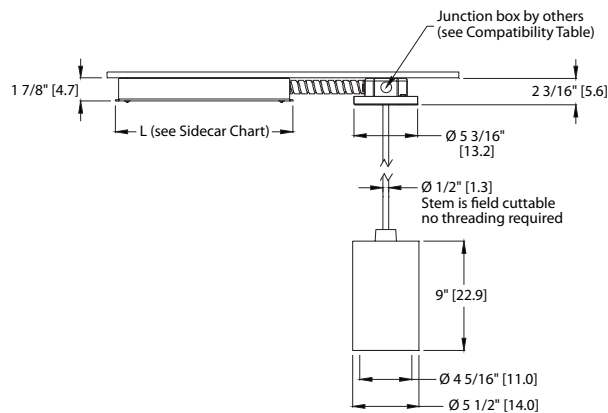
SIDECAR BATTERY OPTION	LUMEN PACKAGES AVAILABLE	L (SIDECAR LENGTH)
E7WCP	750LM AND GREATER EXCEPT AS NOTED BELOW	14"
	6000-8000LM	16"
	5000-8000LM WITH ECOD DRIVER	16"
E10WCP	1000LM AND GREATER EXCEPT AS NOTED BELOW	14"
	6000-8000LM	16"
	5000-8000LM WITH ECOD DRIVER	16"
E15WCP	1500LM AND GREATER	16"



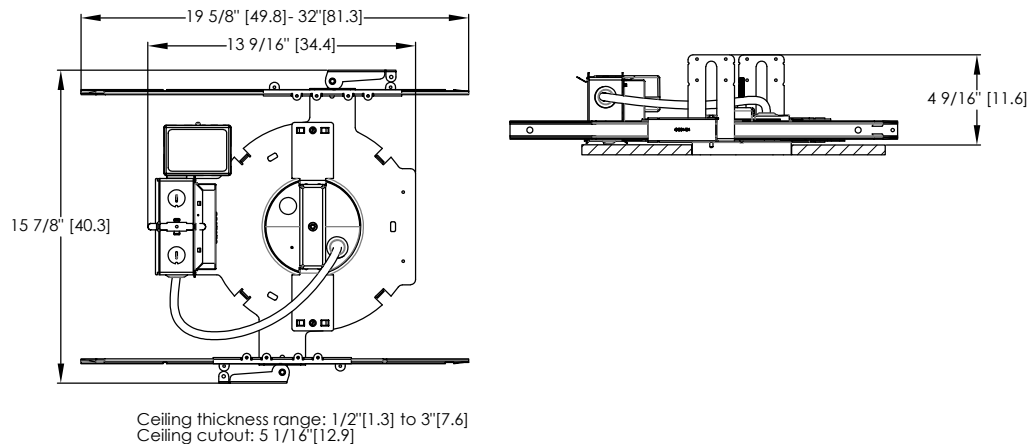
### 6W Integral Emergency Battery



### 7W/10W/15W Sidecar Emergency Battery



### RGH Standard



Ceiling thickness range: 1/2" [1.3] to 3" [7.6]  
Ceiling cutout: 5 1/16" [12.9]

\*Dimensions in inches [centimeters]

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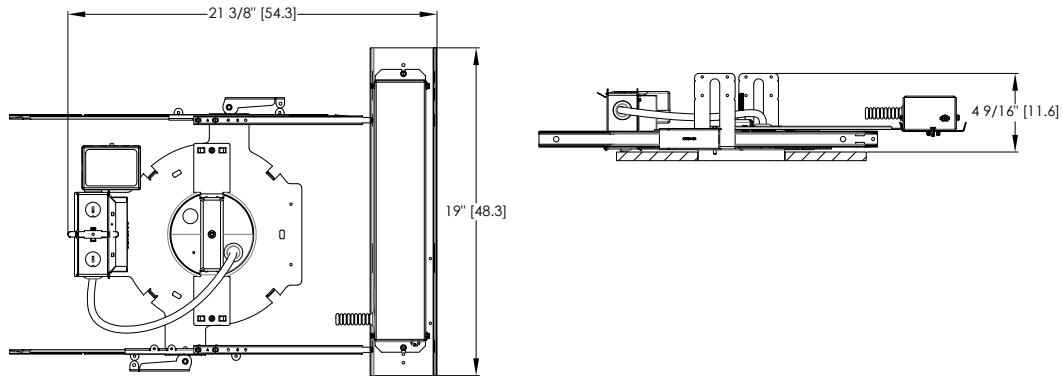
Fixture Type:

**LM1**

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DIMENSIONAL DATA

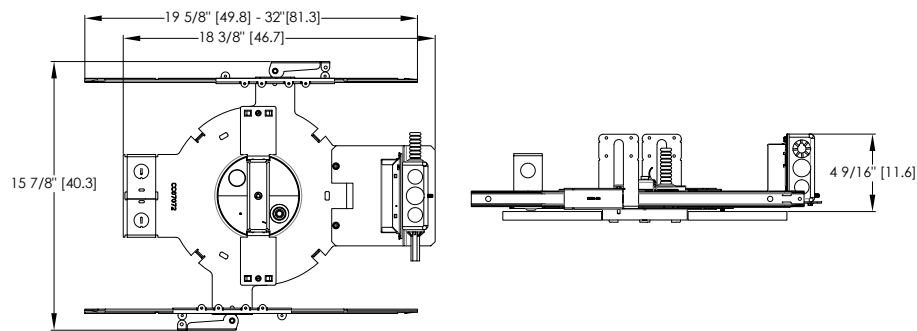
RGH with Battery Backup (E10WCPR/E10WCP) Standard



With Emergency Battery or GTD option

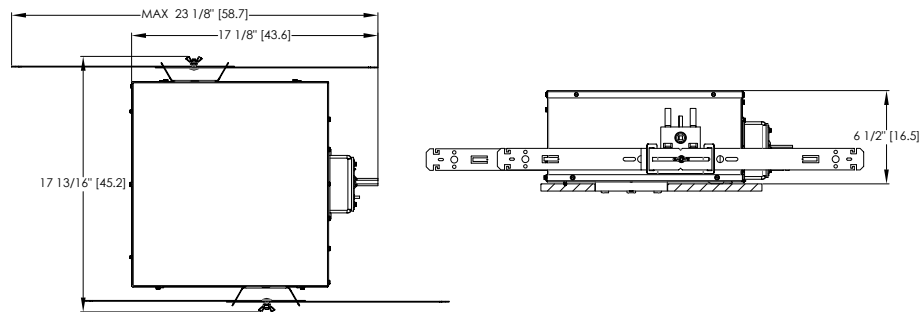
Minimum plenum height for emergency batteries in non-accessible ceilings: 12 1/2\" [31.8]  
Ceiling thickness range: 1/2\" [1.3] to 3\" [7.6]  
Ceiling cutout: 5 1/16\" [12.9]

RGH CP Standard



Ceiling thickness range: 1/2\" [1.3] to 3\" [7.6]  
Ceiling cutout: 5 1/16\" [12.9]

RGH with Chicago Plenum (CP) for use with nLight Enclosed



Ceiling thickness range: 1/2\" [1.3] to 3\" [7.6]  
Ceiling cutout: 5 1/16\" [12.9]

\*Dimensions in inches [centimeters]

EVO4PCLW  
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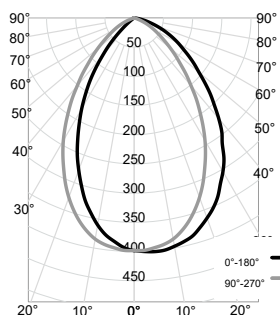
**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LM1**

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**EVO4PCLW 35/10 AR LSS** Input Watts: 8.4, Delivered Lumens: 564, LPW: 67.1, S/MH: 1.14, Test No: ISF 201818P349



**CP Summary**

	0°	90°
0°	398	398
5°	402	395
15°	387	361
25°	338	285
35°	263	196
45°	184	112
55°	114	55
65°	64	21
75°	22	1
85°	1	0
90°	0	0

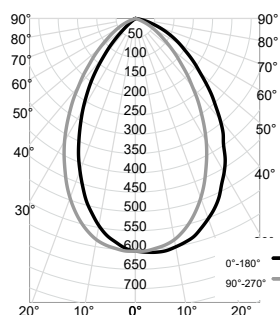
**Zonal Lumen Summary**

Zone	Lumens	% Fixture
0° - 30°	268	47%
0° - 40°	391	69%
0° - 60°	530	94%
0° - 90°	564	100%
90° - 180°	0	0%
0° - 180°	564	100%

**Luminance (cd/sq.m)**

	Average Luminance
0°	50,139
45°	32,808
55°	25,079
65°	19,085
75°	10,923
85°	954

**EVO4PCLW 35/15 AR LSS** Input Watts: 14.0, Delivered Lumens: 854, LPW: 61.0, S/MH: 1.14, Test No: ISF 201818P353



**CP Summary**

	0°	90°
0°	603	603
5°	608	598
15°	585	546
25°	512	432
35°	398	297
45°	279	170
55°	173	84
65°	97	32
75°	34	1
85°	1	0
90°	0	0

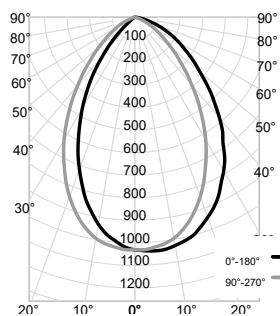
**Zonal Lumen Summary**

Zone	Lumens	% Fixture
0° - 30°	406	47%
0° - 40°	592	69%
0° - 60°	802	94%
0° - 90°	854	100%
90° - 180°	0	0%
0° - 180°	854	100%

**Luminance (cd/sq.m)**

	Average Luminance
0°	75,887
45°	49,656
55°	37,958
65°	28,885
75°	16,532
85°	1,444

**EVO4PCLW 35/25 AR LSS** Input Watts: 23.5, Delivered Lumens: 1460, LPW: 62.1, S/MH: 1.14, Test No: ISF 201818P361



**CP Summary**

	0°	90°
0°	1,031	1,031
5°	1,040	1,022
15°	1,000	934
25°	875	739
35°	680	508
45°	477	291
55°	296	144
65°	166	55
75°	58	2
85°	2	0
90°	0	0

**Zonal Lumen Summary**

Zone	Lumens	% Fixture
0° - 30°	693	47%
0° - 40°	1,012	69%
0° - 60°	1,371	94%
0° - 90°	1,460	100%
90° - 180°	0	0%
0° - 180°	1,460	100%

**Luminance (cd/sq.m)**

	Average Luminance
0°	129,748
45°	84,899
55°	64,899
65°	49,386
75°	28,266
85°	2,469

Lumen Output Multiplier		
CRI	CCT	Multiplier
80	2700K	0.916
	3000K	0.948
	3500K	1
	4000K	1.032
	5000K	1.1
90	2700K	0.748
	3000K	0.8
	3500K	0.838
	4000K	0.845
	5000K	0.945

Reflector Finish Multiplier	
Reflector Finish	Multiplier
LS - Specular	1
LSS - Semi Specular	0.956
WR - White	0.87
LD - Matte Diffuse	0.85
BR - Black	0.73
BZR - Bronze	0.73



NLIGHT AIR

**nLight® AIR** is the ideal solution for retrofit or new construction spaces where adding communication wiring is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each EVO Luminaire ordered with the NLTAIR option. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.

**nLight® AIR Control Accessories**

Order as separate catalog number. Visit [nLight AIR](#).

Wall Switches	Model Number
On/Off single pole	rPODB (color) G2
On/Off two pole	rPODB 2P (color) G2
On/Off & raise/lower single pole	rPODB DX (color) G2
On/Off & raise/lower two pole	rPODB 2P DX (color) G2

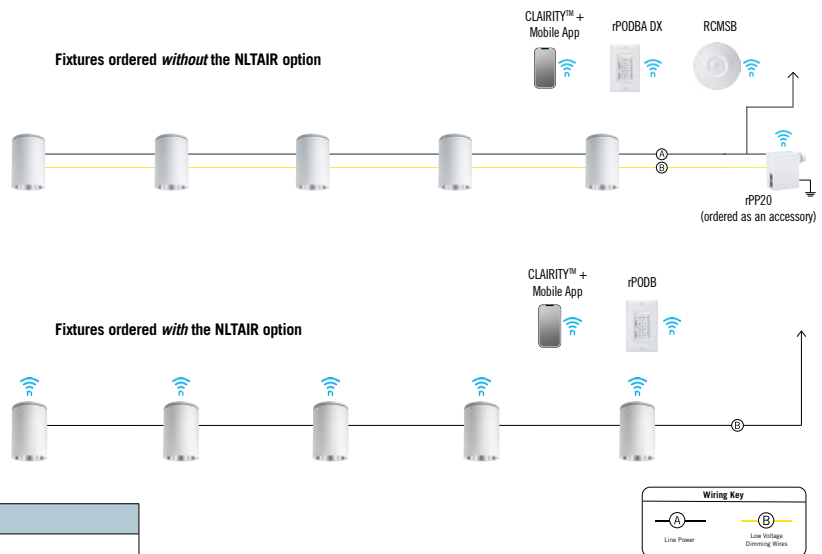
**nLight® AIR Control Accessories (cont.)**

Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	rCMS 9 / rCMS PDT 9
Large motion 360°, ceiling	rCMS 10 / rCMS PDT 10

**UL924 Sequence of Operation**

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.



NLIGHT

**nLight® Wired** The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

**nLight® Wired Control Accessories**

Order as separate catalog number. Visit [nLight](#).

Wall Switches	Model Number
On/Off single pole	nPODM (color)
On/Off two pole	nPODM 2P (color)
On/Off & raise/lower single pole	nPOD DX (color)
On/Off & raise/lower two pole	nPODM 2P DX (color)
Graphic touchscreen	nPOD GFX (color)

**Photocell Controls**

Dimming	nCM ADCX
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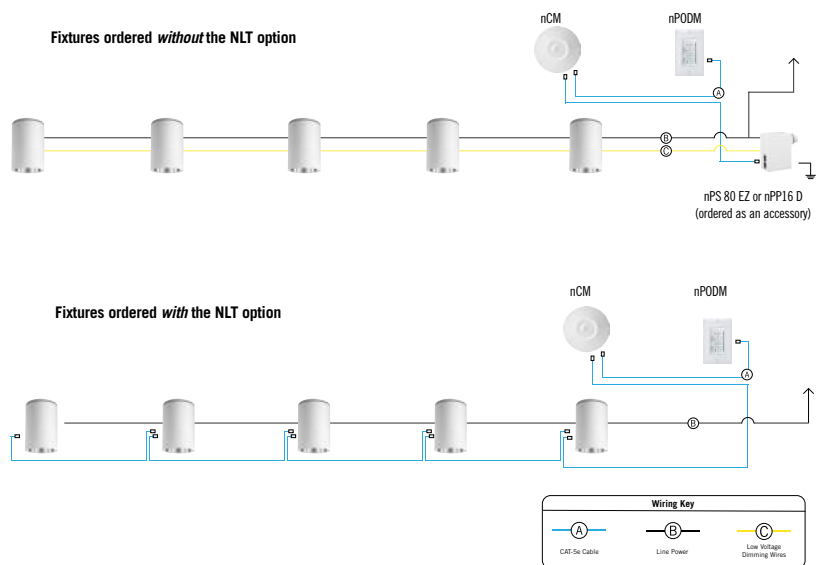
**nLight® Wired Control Accessories (cont.)**

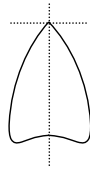
Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX

**Cat-5 Cables (plenum rated)**

10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1

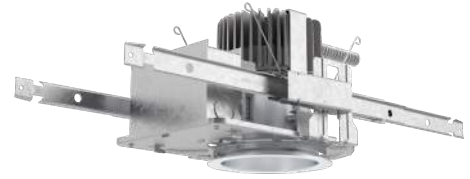
**Possibilities for nLight® wired**





## General Illumination Round Wallwash

4"



OVERVIEW

### Feature Set

- Bounding Ray™ optical design
- Unitized optics mechanically attach the light engine to the lower reflector for complete optical alignment.
- 45° cutoff to source and source image
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional
- Fixtures are wet location, covered ceiling
- Available with 10% dimming, 1% dimming, or dim to dark
- Anodize kicker reflector provides uniform illumination from floor to ceiling.
- ENERGY STAR® certified product

### Distribution



### Superior Performance

Nominal Lumens	250	500	750	1000	1500	2000	2500	3000	3500
Delivered Lumens	235	470	762	945	1440	1881	2434	2934	3498
Wattage	3.1	7.2	7.9	8.8	14.7	19.7	25.7	31.2	38.4
Lumens per Watt	75.8	65.3	96.5	107.4	98.0	95.5	94.7	94.0	91.1

COMPLEMENTARY PRODUCTS

### Coordinated Apertures | Multiple Layers of Light



General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

### Core



Downlight



Adjustable



Open Wallwash



Lensed Wallwash



Cylinder



Pinhole



Bevel



Hyperbolic

### Healthcare



MRI



Surgical Suite



Patient Room

### Special Applications



Dynamic



Food Service



Vandal/Tamper



Clean Room



Shower



Steam Room

EVO4WW  
page 1 of 7

GOtham ARCHITECTURAL DOWNLIGHTING | 1400 Lester Road Conyers, GA 30012 | P 800-705-SERV (7378) | gothamlighting.com  
© 2014-2023 Acuity Brands Lighting Inc. All Rights Reserved. Rev. 05/03/23 Specifications subject to change without notice.



**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LM2**

Page 1 of 7



A+ Capable options indicated by this color background.

Luminaire Type:

Catalog Number:

EXAMPLE: EV04WW 35/10 AR LSS MVOLT EZ1

Series		Color Temperature		Nominal Lumen Values		Reflector & Flange Color		Finish		Voltage
EV04WW	Wallwash	27/	2700 K	02	250 lumens	AR	Clear	LSS	Semi-specular	MVOLT
EV04CWW	Corner Wallwash	30/	3000 K	05	500 lumens	PR	Pewter	LD	Matte diffuse	120
EV04DWW	Double Wallwash	35/	3500 K	07	750 lumens	WTR	Wheat	LS	Specular	277
		40/	4000 K	10	1000 lumens	GR	Gold			347 <sup>2,3</sup>
		50/	5000 K	15	1500 lumens	WR¹	White			
				20	2000 lumens	BR¹	Black			
				25	2500 lumens					
		30	3000 lumens							
		35	3500 lumens							
		40	4000 lumens							
				45	4500 lumens					

Driver <sup>4</sup>		Control Interface	Options
GZ10	0-10V driver dims to 10%	NLT <sup>6</sup>	SF
GZ1	0-10V driver dims to 1%		Single Fuse. Specify 120V or 277V.
EZ10	eldoLED 0-10V ECOdrive. Linear dimming to 10% min.	NLTER <sup>2,6,11</sup>	TRW <sup>7</sup>
EZ1	eldoLED 0-10V ECOdrive. Linear dimming to 1% min.	NLTAIR <sup>2,14,15</sup>	TRBL <sup>8</sup>
EZB	eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.	NLTAIRER <sup>2,11,13</sup>	EL <sup>9</sup>
EDAB	eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.		Emergency battery pack, 10W, with integral test switch
EDXB	eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Includes termination resistor. Refer to <a href="#">DMXR Manual</a> . Minimum 1000 lumens	NLTAIREM <sup>2,14</sup>	ELR <sup>9</sup>
			Emergency battery pack, 10W, with remote test switch
ECOD <sup>5</sup>	Lutron Ecosystem digital Hi-Lume 1% soft-on, fade to black.		ELSD <sup>9</sup>
			Emergency battery pack with self-diagnostics, integral test switch
			ELRSD <sup>9</sup>
			Emergency battery pack, 10W, with self-diagnostics, remote test switch
			E10WCP <sup>9</sup>
			Emergency battery pack, 10W Constant Power, CA Title 20 compliant with integral test switch
			E10WCPR <sup>9</sup>
			Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch
			N80 <sup>10</sup>
			nLight® Lumen Compensation
			BGTD
			Bodine generator transfer device. Specify 120V or 277V.
			90CRI
			High CRI (90+)
			CP <sup>12</sup>
			Chicago Plenum. Specify 120V or 277V for 5000lm and above.
			RRL____
			RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to <a href="#">RRL</a> for complete nomenclature.

ACCESSORIES — order as separate catalog numbers (shipped separately)

CTAEV04	4" Aperture ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5").
CTA4-8 YK	4"-8" Aperture ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5"). For use with CWW/DWW trims, EDXB, CP or nTune options.
ISD BC	0-10V wallbox dimmer. Refer to <a href="#">ISD-BC</a> .

ORDERING NOTES

- Not available with finishes.
- Not available with emergency battery pack options.
- Supplied with factory installed step down transformer.
- Refer to [TECH-240](#) for compatible dimmers.
- Not available with nLight<sup>®</sup> and X Point options.
- Specify voltage.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not available with WR (white reflector).
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not available with BR (black reflector).
- 11" of plenum depth or top access required for battery pack maintenance.
- Access above ceiling required. Not available with 347V.
- Fixture begins at 80% light level. Must be specified with NLT or NLTER. Only available with EZ1 and EZ10 drivers.
- For use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
- Battery pack not available. 2500 lumen max.
- Not available DALI or DMX drivers. Not available with CP or N80 options. Not recommended for metal ceiling installations.
- When combined with the EZ1, EZ10, or EZB option, normal luminaires (non-emergency) can be used as a normal power sensing device for nearby nLight AIR devices and luminaires with EM emergency options.



#### Optical Assembly

Fully serviceable and upgradeable lensed LED light engine suitable for field maintenance or service from below the ceiling.

Unitized optics shall have mechanical attachment of the light engine to the lower reflector for complete optical alignment.

Wallwash enables uniformity from floor to ceiling. Smooth, balanced illumination optimized for ceilings of 8' to 12' with recommended spacing of 3' from wall and 3' centers.

#### Electrical

The luminaire shall operate from a 50 or 60 Hz  $\pm 3$  Hz AC line over a voltage ranging from 120 VAC to 277 VAC. The fluctuations of line voltage shall have no visible effect on the luminous output.

The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output.

Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages.

Input wires shall be 18AWG, 300V minimum, solid copper.

#### Controls

Luminaire shall be equipped with interface for nLight wired or wireless network with integral power supply as per specification.

#### Dimming

The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 – 10%, 100 – 1.0% or 100 – 0.1% of rated lumen output with a smooth shut off function to step to 0%.

eldoLED LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered.

Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

#### Construction

Luminaire housing shall be constructed of 20-gauge galvanized steel and have telescopic mounting bars with maximum 26" and minimum 15" extension and 4" vertical adjustment.

Luminaires shall be suitable for installation in ceilings up to 1½" thick. (specify ceiling thickness adapter to extend frame to accommodate ceiling thickness up to 5").

Tool-less adjustments shall be possible after installation.

The assembly and manufacturing process for the luminaire shall be designed to assure all internal components are adequately supported to withstand mechanical shock and vibration.

25°C ambient temperature standard (1/2" clearance on all sides from non-combustible materials in non-IC applications. unless marked spacing noted otherwise). For use in insulated ceilings, a 3" clearance on all sides from insulation is required (unless marked spacing noted otherwise).

#### Listings

Fixtures are CSA certified to meet US and Canadian Standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, wet location covered ceiling. Luminaire configurations are Energy Star certified through testing in EPA-recognized laboratories, with the results reviewed by an independent, accredited certification organization. Visit [www.energystar.gov](http://www.energystar.gov) for specific configurations listed.

#### Buy American Act

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations.

Please refer to <https://www.acuitybrands.com/resources/buy-american> for additional information.

#### Photometrics

LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours.

Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 6,000 hours and operate within a tolerance of <2.5 MacAdam ellipse as defined by a point at the intersection of the CCT line and the black body locus line in CIE chromaticity space.

#### Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

#### Note:

Actual performance may differ as a result of end user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.





EVO - eldoLED Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
EZ10	10%	Linear	Linear/Logarithmic
EZ1	1%	Linear	Linear/Logarithmic
EXA1	1%	Linear	Linear/Logarithmic
EZB	<1%	Logarithmic	Linear
EDAB	<1%	Logarithmic	Linear
EXAB	<1%	Logarithmic	Linear
EDXB	<1%	Logarithmic	Linear

CCT/CRI Multiplier Table		
CRI	CCT	Multiplier
80	2700K	0.96
	300K	1.00
	3500K	1.00
	4000K	1.01
	5000K	1.07
90	2700K	0.80
	300K	0.83
	3500K	0.85
	4000K	0.87
	5000K	0.91

Reflector Finish Multiplier	
Reflector Finish	Multiplier
LS - Specular	1
LSS - Semi Specular	0.956
WR - White	0.87
LD - Matte Diffuse	0.85
BR - Black	0.73

Driver		Control Provided (note: 347V/UVOLT versions provided with 347 option selected)			
Nomenclature	Description	NLT	NLTER	NLTAIR2	NLTAIRER2
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2
GZ1	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2
EZ10	eldoLED 0-10V EC0drive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2
EZ1	eldoLED 0-10V EC0drive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2
EZB	eldoLED 0-10V SOLOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2

#### How to Estimate Delivered Lumens in Emergency Mode

$$\text{Delivered Lumens} = 1.25 \times P \times \text{LPW}$$

P = Output power of emergency driver. P = 10W for PS1055CP

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

#### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a **shaded background\***
- This luminaire is part of an A+ Certified solution for nLight® control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a **shaded background\***

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details



\*Dimensions in inches [centimeters]

Aperture: 4-5/16" (11)

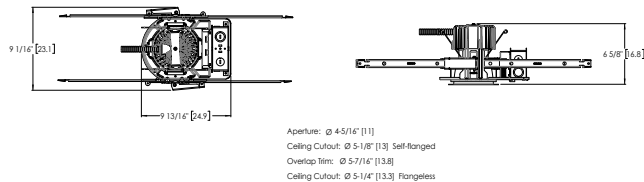
Ceiling Opening: 5-1/8" (13) self-flanged

Overlap trim: 5-7/16" (13.8)

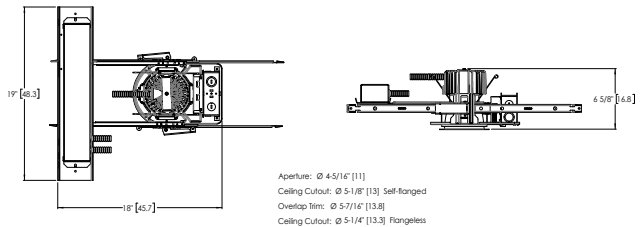
5-1/4" (13.3) flangeless

DIMENSIONAL DATA

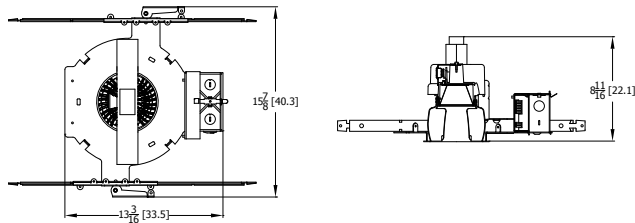
### Standard Wallwash



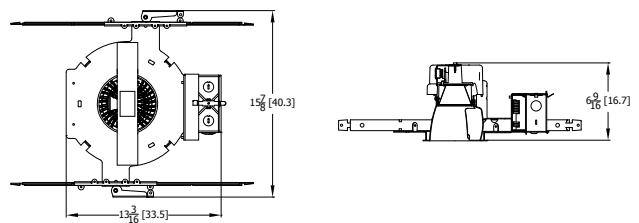
### Battery Pack



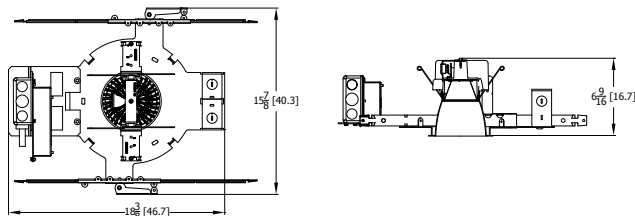
### Double Wallwash



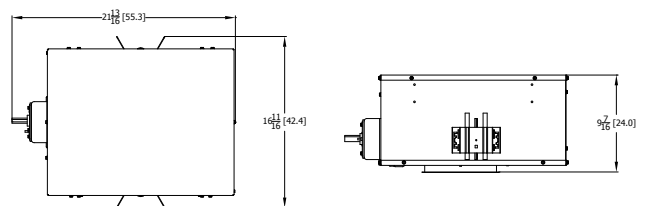
### Corner Wallwash



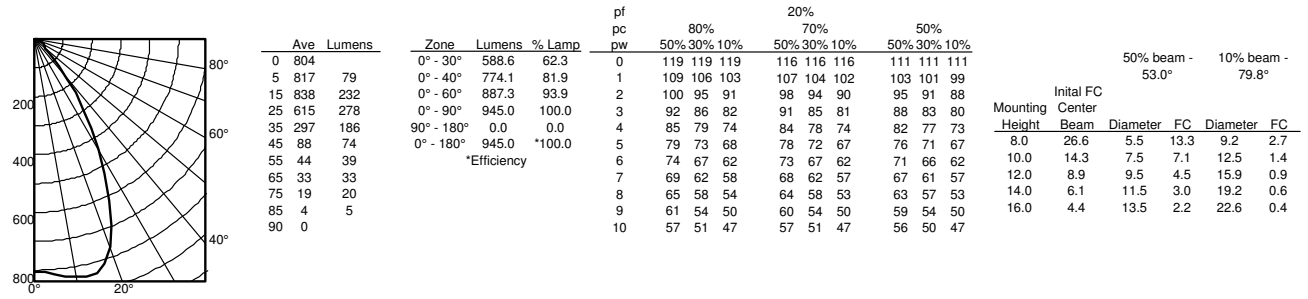
### CP Standard



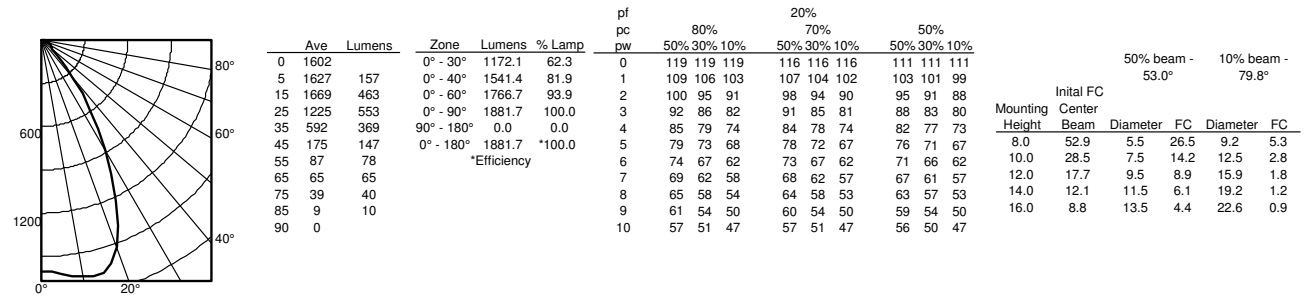
### CP Enclosed For Use With Battery Pack & nLight



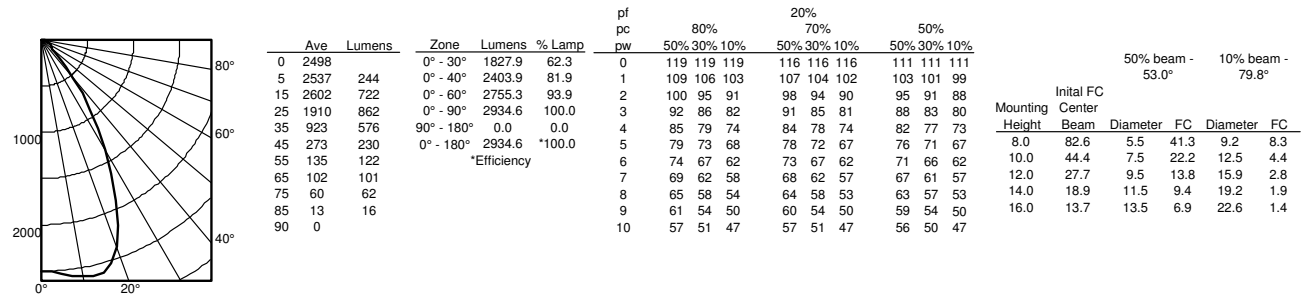
**EV04WW 35/10 AR LS INPUT WATTS: 8.8, DELIVERED LUMENS: 945LM, LPW= 107.4, 0.82 S/MH, TEST NO. LTL27805P317**



**EV04WW 35/20 AR LS INPUT WATTS: 19.7, DELIVERED LUMENS: 1881.6LM, LPW= 95.5, 0.82 S/MH, TEST NO. LTL27805P365**



**EV04WW 35/30 AR LS INPUT WATTS: 29.5, DELIVERED LUMENS: 2934.5LM, LPW= 99.5, 0.82 S/MH, TEST NO. LTL27805P413**



nLight® AIR is the ideal solution for retrofit or new construction spaces where adding communication wiring is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each EVO Luminaire ordered with the NLTAIR option. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.

#### nLight® AIR Control Accessories

Order as separate catalog number. Visit [nLight AIR](#).

Wall Switches	Model Number
On/Off single pole	rPODB (color) G2
On/Off two pole	rPODB 2P (color) G2
On/Off & raise/lower single pole	rPODB DX (color) G2
On/Off & raise/lower two pole	rPODB 2P DX (color) G2

#### nLight® AIR Control Accessories (cont.)

Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	rCMS 9 / rCMS PDT 9
Large motion 360°, ceiling	rCMS 10 / rCMS PDT 10

#### UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

nLight® The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

#### nLight® Wired Control Accessories

Order as separate catalog number. Visit [nLight](#).

Wall Switches	Model Number
On/Off single pole	nPODM (color)
On/Off two pole	nPODM 2P (color)
On/Off & raise/lower single pole	nPOD DX (color)
On/Off & raise/lower two pole	nPODM 2P DX (color)
Graphic touchscreen	nPOD GFX (color)

#### Photocell Controls

Dimming	nCM ADCX
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#### nLight® Wired Control Accessories (cont.)

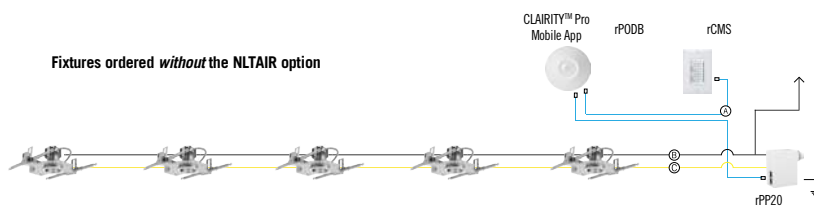
Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX

#### Cat-5 Cables (plenum rated)

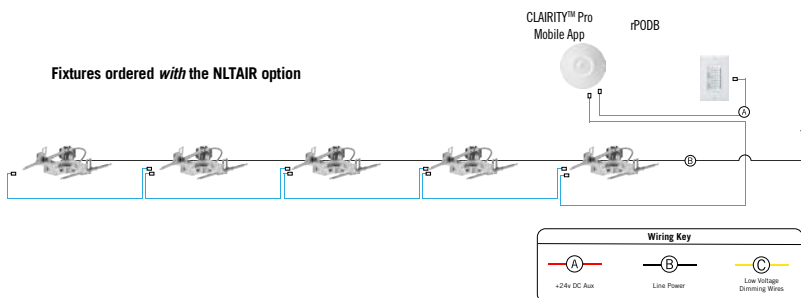
10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1

#### Possibilities for nLight® AIR

##### Fixtures ordered without the NLTAIR option

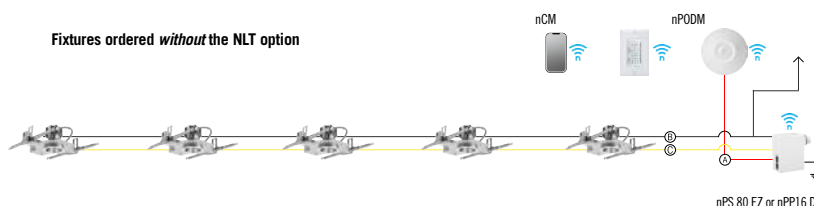


##### Fixtures ordered with the NLTAIR option

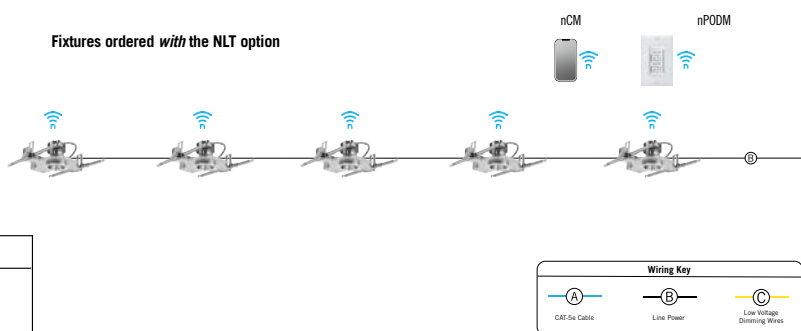


#### Possibilities for nLight® wired

##### Fixtures ordered without the NLT option



##### Fixtures ordered with the NLT option



# VIA 3 PERIMETER

## RECESSED

## STATIC WHITE



Project: \_\_\_\_\_

Type: \_\_\_\_\_



Via 3 Perimeter Deep

### DESCRIPTION

Via 3 Perimeter creates a continuously illuminated "slot" at the wall/ceiling intersection. Lighted corners with adjustable end sleeves are available. Via Perimeter installs in grid or drywall ceilings in a choice of three arrangements: level, shallow 1", and deep 3 1/4".



**SENSORS**  
For latest information on sensors, click [here](#).



**IC RATED**

**Up to 121 lm/W performance**

## Order Guide

LUMINAIRE ID	OPTIC	LIGHT SOURCE	CRI	LUMEN PACKAGE	COLOR TEMP.
		<b>SW</b>			
<b>V3PERL</b> - Via 3 Perimeter Level <b>V3PERS</b> - Via 3 Perimeter Shallow <b>V3PERD</b> - Via 3 Perimeter Deep	<b>HLO</b> - High-Efficiency Lambertian Optic <b>ARFO</b> <sup>1</sup> - Asymmetric Room Fill Optic <sup>1</sup> Not available with Deep fixtures.	<b>SW</b> - Static white	<b>80CRI</b> - 80 CRI <b>90CRI</b> - 90 CRI	<b>500LMF</b> - Low output 500 lm/ft <b>750LMF</b> - Medium output 750 lm/ft <b>1000LMF</b> - High output 1000 lm/ft	<b>27K</b> - 2700K <b>30K</b> - 3000K <b>35K</b> - 3500K <b>40K</b> - 4000K <b>50K</b> - 5000K
LUMINAIRE LENGTH	VOLTAGE	DRIVER <sup>3</sup>	ELECTRICAL	ELECTRICAL SECTIONS (optional) <sup>8,9</sup>	MOUNTING
<b>#FT#IN</b> - Specify nominal length (#) in 1' and/or 1" increments  <b>Standard nominal lengths:</b> Single units: 2' to 12' Continuous runs: lengths over 12'	<b>120V</b> - 120V <b>277V</b> - 277V <b>UNV</b> - 120V-277V <b>347V</b> <sup>2</sup> - 347V <sup>2</sup> Only available with DI driver.	<b>D1</b> - 1% 0-10V <b>DA</b> <sup>4</sup> - DALI <b>LDE1</b> <sup>4</sup> - Lutron Hi-lume 1% Eco <b>ELD1</b> - eldoLED 1% ECODrive 0-10V <b>ELDO</b> - eldoLED 0.1% SOLOdrive 0-10V <sup>3</sup> PoE (Power-over-Ethernet) compatible. Consult factory for details. <sup>4</sup> On-site commissioning is required.	<b>1C</b> - 1 circuit <b>#MC</b> <sup>5</sup> - Multi circuit <b>EC</b> - Emergency-powered fixture <b>NL</b> - Night light fixture <b>DL</b> - Daylight fixture <b>GTD</b> <sup>6,7</sup> - Generator transfer device fixture <sup>5</sup> Specify total number of circuits (#), including any required for electrical section options. Provide drawing or layout specifications. Minimum 4' section per circuit. <sup>6</sup> Minimum 4' fixture. <sup>7</sup> Not available with 347V.	<b>#EC##</b> <sup>10</sup> - Emergency-powered section <b>#NL##</b> <sup>10</sup> - Night light section <b>#DL##</b> <sup>10</sup> - Daylight section <b>#GTD##</b> <sup>10,11,12</sup> - Generator transfer device section <b>#EMB</b> <sup>12,13</sup> - Emergency battery <b>NA</b> - None <sup>8</sup> Specify with multi circuit (#MC) electrical option only. <sup>9</sup> Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. <sup>10</sup> Specify quantity (#), and section length in inches (##). <sup>11</sup> Minimum 4' section. <sup>12</sup> Not available with 347V. <sup>13</sup> Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section.	<b>TC9</b> - Regular 9/16" <b>TC15</b> - Regular 15/16" <b>TB9</b> - T-bar 9/16" <b>TB15</b> - T-bar 15/16" <b>ST</b> - Screw slot T-bar <b>DTL</b> - Drywall trimless <b>DMF</b> - Drywall mud flange
FINISH	CONTROL <sup>14</sup>	OPTIONS <sup>19</sup>		ADJUSTABLE SLEEVE (optional) <sup>21</sup>	
<b>W</b> - Matte white <b>CF#</b> - Custom finish, specify RAL#	<b>STANDALONE CONTROLS</b> <sup>15,16,17</sup> Specify the quantity (#) of sensors per fixture. <b>#ODS</b> - Onboard Daylight	<b>CONNECTED CONTROLS</b> <sup>18</sup> <b>LU</b> - Lutron <b>AWN</b> - Lutron Athena Wireless Node RF Only <b>AWNS</b> - Lutron Athena Wireless Node Sensor <b>EN</b> - Enlighted <b>ENC</b> - Encelium <b>WL</b> - Cooper Wavelinx <b>AN</b> - Acuity nLight <b>CA</b> - Casambi <b>LG</b> - Legrand <b>NA</b> - None		<b>NEF</b> <sup>20</sup> - No end flanges <b>FU120</b> - Fuse 120V <b>FU277</b> - Fuse 277V <b>FWC</b> - Flexible whip cable (6' std) <b>CP</b> - Chicago Plenum <b>NA</b> - None <sup>19</sup> Separate codes with a "*" if more than one is specified. <sup>20</sup> For wall-to-wall installations.	
	<sup>14</sup> Standalone and connected control options cannot be combined. <sup>15</sup> Not available with Shallow or Deep fixtures. <sup>16</sup> Available with DI driver and 1 circuit options only. <sup>17</sup> Minimum 4' per zone. Provide control zone length. <sup>18</sup> Consult factory for connected controls.			<sup>21</sup> See page 3 for details. <sup>22</sup> Minimum 3' fixture for UNV/DI driver. Minimum 4' fixture for all other drivers. Minimum 5' fixture with EMB option.	

TECHZONE™ & USG Compatible with 4" ceiling

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**ALULA Lighting Design**  
 155 Gordon Baker Road, Suite 200  
 Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LM3, LM4**

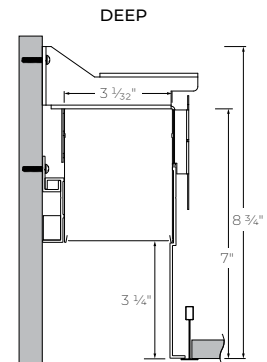
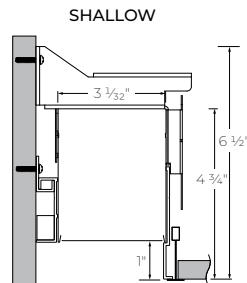
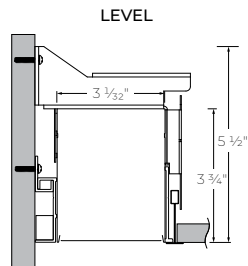
Page 1 of 5

# VIA 3 PERIMETER

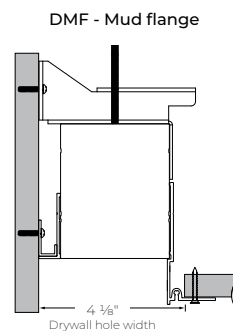
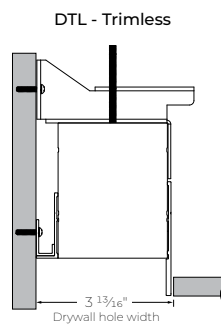
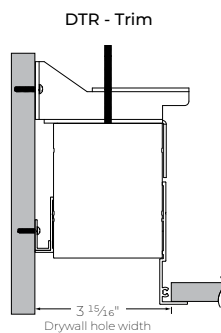
RECESSED  
STATIC WHITE



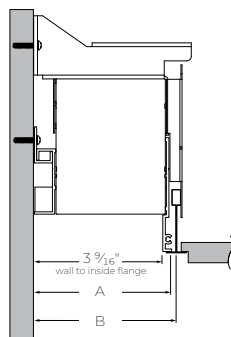
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






## DRYWALL



## GRID



	TG9  Tegular 9/16"	TB9  T-bar 9/16"	TG15  Tegular 15/16"	TB15  T-bar 15/16"	ST  Screw slot T-bar
A wall to flange	3 13/16"		3 15/16"		3 13/16"
B wall to T-bar	3 7/8"		4"		3 7/8"

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# VIA 3 PERIMETER

## RECESSED

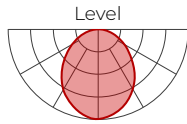
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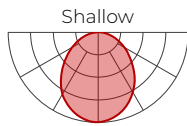
### Photometrics

Values calculated based on a 4' fixture at 3500K and 80 CRI for all optics.

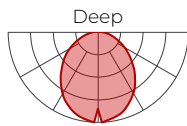
#### HLO



LM/FT	W/FT	LM/W
500	4.1	121
750	6.4	117
1000	8.8	114

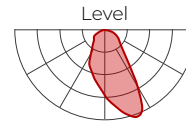


LM/FT	W/FT	LM/W
500	4.2	118
750	6.5	115
1000	9	111

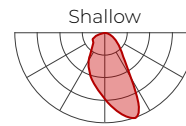


LM/FT	W/FT	LM/W
500	4.4	113
750	6.9	109
1000	9.5	105

#### ARFO



LM/FT	W/FT	LM/W
500	5.5	91
750	8.8	85
1000	12.4	81



LM/FT	W/FT	LM/W
500	5.6	89
750	8.9	84
1000	12.5	80

#### MULTIPLIER TABLE

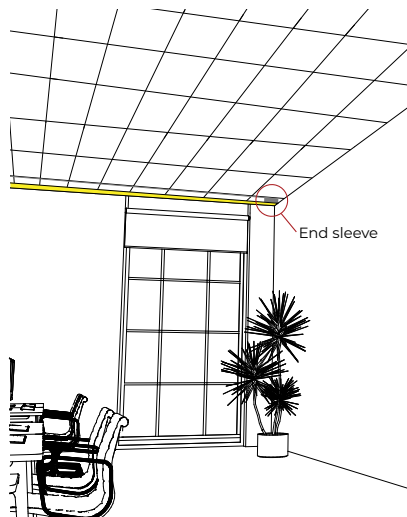
Use this table to get results for different color temperatures and CRI for all photometric tables.

#### Multiplier - CCT/CRI

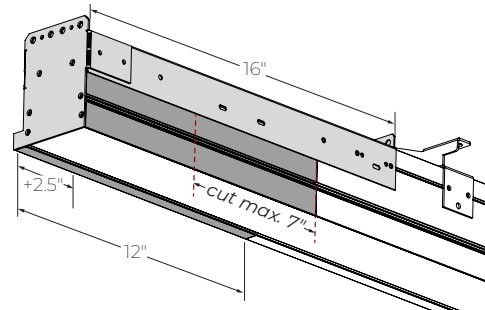
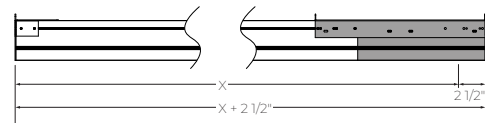
CCT	WATTS		LPW	
	80 CRI	90 CRI	80 CRI	90 CRI
2700K	1.05	1.27	0.95	0.79
3000K	1.02	1.23	0.98	0.81
3500K	1.00	1.19	1.00	0.84
4000K	1.00	1.19	1.04	0.84
5000K	0.96	1.12	1.00	0.89

### Adjustable end sleeve - TES

Adjustable end sleeve (TES) is designed to provide on-site luminaire adjustability of +2.5" to -4.5". A sleeve accommodates an easy installation and maintenance. Please refer to the [End Sleeve Adjustment Installation Instructions](#) for more details.



X = Fixture measure provided by client.  
X + 2.5" = Measurement built and supplied.



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# VIA 3 PERIMETER

## RECESSED

## STATIC WHITE



## Technical Specifications

### OPTICS

#### High-Efficiency Lambertian Optic (HLO)

The High-Efficiency Lambertian Optic (HLO) uses matte white reflectors to distribute LED output across 0.075" acrylic shielding, providing up to 88% transmission and good obscuration. Luminaire brightness is controlled by the flux-to-shielding area ratio.

#### Asymmetric Room Fill Optic (ARFO)

Our Asymmetric Room Fill Optic employs an advanced optical system to illuminate rooms and corridors from the perimeter, providing a direct distribution of light with precision and minimal glare.

### LIGHT SOURCE

Custom linear array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K, 4000K and 5000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operated at reduced drive current to optimize efficacy and lumen maintenance.

All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

### LUMINAIRE LENGTH

Via 3 Perimeter is made up of standard 2' to 12' sections that may be joined together to create longer continuous run lengths. Exact run lengths must be noted in the product code. The minimum individual section available is 2'.

All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.

### ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277 VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency > 84%, PF > 0.9, THD < 20%. Other specifiable options include Lutron Hi-Lume 1% Eco, eldoLED 1% ECOdrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

### PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

### ELECTRICAL SECTION OPTIONS

Electrical section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional electrical sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

#### Electrical sections

Options include emergency-powered (#EC##), night light (#NL##), daylight (#DL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in inches (##).

Example 1: A 32' Direct fixture with two 8' emergency-powered sections on a second circuit.

Code: 2MC-2EC96

Example 2: A 24' Direct fixture with one 4' generator transfer device section.

Code: 1MC-1GTD48

#### Battery

Each emergency battery (#EMB) powers a 4' section. All batteries will be on the same circuit. Specify the number of batteries (#) required.

Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours.

### MOUNTING

Recessed fixtures can be mounted into exposed or concealed T-bar or regular ceiling, as well as in drywall ceilings with trim, trimless, or mud flange options.

### FINISH

**Interior:** 95%, reflective matte powder coated white paint

**Exterior:** Matte white powder coating.

Custom finishes are also available.

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#### ALULA Lighting Design

155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LM3, LM4**

Page 4 of 5



# VIA 3 PERIMETER

## RECESSED

## STATIC WHITE



### CONTROLS

Lumenwerx offers several options for integrating occupancy and daylight harvesting controls in our luminaires.

For latest information on sensors, click [here](#).



### STANDALONE CONTROLS

An integrated standalone sensor controls the luminaire in which it is installed. Depending on the length, more than one sensor may be necessary and may control the entire luminaire, or just a section of it. These controls operate independently. Unless otherwise agreed, location and functionality of the sensor within the luminaire are selected by Lumenwerx. See client drawings for details.

**ODS:** An integral, daylight harvesting sensor with closed-loop operation dims the luminaire in which it is installed in order to compensate for available daylight. The sensor measures the combination of daylight and luminaire light reflected from horizontal surfaces below the luminaire. Initial onsite calibration is required via the use of provided remote control.

### CONNECTED CONTROLS

With connected controls, sensors or nodes installed in the luminaire form part of a larger control system infrastructure from manufacturers such as: Lutron, Enlighted, Encelium, Cooper Wavelinx, Acuity nLight, Casambi, Legrand, and others. These connected controls allow for a scalable system providing features like occupancy and daylight control, manual control, scheduling and configuration of various zones and scenes. Energy reporting and system monitoring are also possible. Specific capabilities depend on the control system being used.

Lumenwerx installs the components (sensors, nodes, power packs, etc) which may be supplied to us by a third party, or procured directly by Lumenwerx, depending on the control system manufacturer.

Lumenwerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.

To indicate a Lumenwerx luminaire with connected controls, identify the specific onsite control system to be integrated into the luminaires using the ordering code. Due to the diversity of components, you must contact factory to assure complete compatibility with intended control system and to fully specify the luminaire.

Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for Lumenwerx to create shop drawings and submittals.

### CONSTRUCTION

**Housing:** Extruded aluminum, up to 90% recycled content

**Interior brackets:** Die-formed cold rolled sheet steel

**Joining system:** Die-cast zinc

**Reflectors:** Flat rolled aluminum sheet or die-formed cold rolled steel, 95% reflective matte white painted

**Lens:** Acrylic

**Recessed flanges:** Extruded aluminum, up to 90% recycled content

**End plate:** Die-formed cold rolled sheet steel

### MAINTENANCE

LED boards are housed in a removable cartridge for easy replacement. Driver is accessible from below.

### WEIGHT

**4':** 11.12 lbs - 5.05 kg

**8':** 22.25 lbs - 10.1 kg

**12':** 33.48 lbs - 15.2 kg

### CERTIFICATIONS

**ETL:** Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

**Chicago Plenum:** City of Chicago Approved (CCEA) when specified with CP option.

**IC rated:** Suitable for direct contact with insulation

### WARRANTY

Lumenwerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

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**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LM3, LM4**

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Project Name

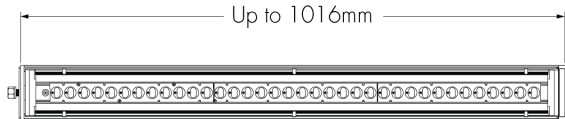
Qty

Type

Catalog / Part Number

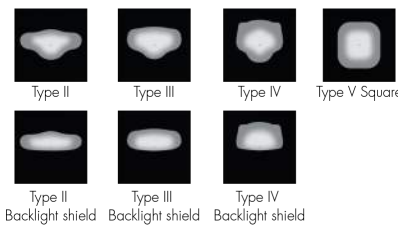


Side and front views



Bottom view  
L120 or L140 (3 boards) shown

Distributions



Description

The Lumenpulse Lumenblade Small is an outdoor LED luminaire that uses a rectilinear version of the Lumencentro light engine to create a continuous line of light. Its seen-but-not-seen, minimalist design is sustainable, blends with both contemporary and heritage architectures, provides a high level of security, and is sensitive to the natural environment. The Lumenblade Small is available in several lengths, a number of distributions, output options, and DarkSky approval provide a stellar quality of light that brings the night to life.

Colour and Colour Temperature



Features

Mounting	Side Mounting
Colour and Colour Temperature	2200K, 2700K, 3000K
Distributions	Type II, Type III or Type IV (with or without backlight shield), Type 5 square
1.5G Vibration Rated	Meets 1.5G ANSI C136.31 - 2010 vibration standard for Roadway applications 3G ANSI C136.31-2010 Vibration Rating for bridge applications available for certain configurations, refer to product configurator and website for details
Options	3G ANSI C136.31-2010 Vibration Rating for Bridge Applications, Corrosion-resistant Coating for Hostile Environments, Surge Protector, 3-Pin Receptacle with or without shorting cap, 5-Pin Receptacle with or without shorting cap, 7-Pin Receptacle with or without shorting cap, Motion Detector
Pole Mounting Adaptor	Straight pole and Muffler pole adaptor (round and square pole): 102 mm, 127 mm and 152 mm Lumentech pole adaptor (square and round pole): 127 mm (round pole only) and 152 mm
Warranty	5-year limited warranty

Control

ON/OFF 0-10V LT

Motion Detector Options



Rating

IP66 (optical chamber)



DarkSky Certification



Certifications



Performance

Output (Nominal Lumens)	Minimum 4000lm (1 board) / Maximum 14000lm (3 boards)
Efficacy	Up to 95 lm/W (Type 5 square, 3000K, M80 lumen output)
Colour Rendering	3 SDCM for CRI 70+, 2 SDCM for CRI 80+ and CRI 90+
Lumen Maintenance	TM-21 L70 > 145,000 hrs (reported, Ta 25 - 50 °C [77 - 122 °F])
DarkSky	DarkSky Approved (2200K, 2700K and 3000K colour temperatures, BUG rating of U0)

Physical

Housing Material	Extruded aluminium 6000 alloy series
Lens Material	Optical tempered clear glass (Clearsite lens)
Surface Finish	Super durable resistant exterior polyester powder coating meets AAMA 2604-98 requirements (5-years Florida exposure). A corrosion resistant finish (CRC) pre-finish is available to meet ASTM B-117 & ASTM D-1654 (salt spray resistance) and ASTM D-2247 requirements (humidity resistance).
Weight	1 board: 4.54 kg 2 boards: 5.67 kg 3 boards: 6.8 kg Refer to Fixture Weights Table in complete specification sheet for fixture weights with motion detector installed and double configurations

Electrical and Control

Voltage	120 volts, 208 volts, 240 volts, 277 volts, 347 volts, 480 volts
Control	On/Off Control, 0-10V Dimming, Lumentalk

Environmental

Storage Temperature	-40°C to 50°C [-40°F to 122°F] (device must reach start-up temperature value before operating)
Operating Temperature	-40°C [-40 °F] to 50°C [122 °F]
Start-up Temperature	-25°C [-13 °F] to 50°C [122 °F]
Ingress Protection Rating	IP66 (optical chamber) Wet location rated
Impact Resistance Rating	IK06 (glass lens) IK10 (frame)
Environment	Dry/damp/wet location



EPA And Fixture Weight Tables

\*Fixture weights are estimated.

Standard Fixture

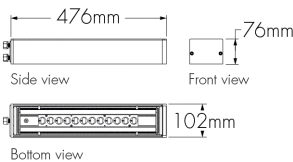
		S40/S60 (1 board)	M80/M100 (2 boards)	L120/L140 (3 boards)
EPA (sq m.)	S1E	0.05	0.08	0.12
	S2E	0.10	0.16	0.24
Weight* (kg)	S1E	4.54	5.67	6.80
	S2E	9.07	11.34	13.60

Fixture With Motion Detector Option

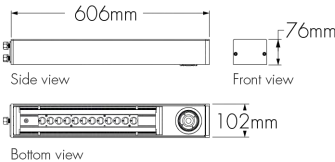
		S40/S60 (1 board)	M80/M100 (2 boards)	L120/L140 (3 boards)
EPA (sq m.)	S1E	0.07	0.10	0.13
	S2E	0.14	0.20	0.26
Weight* (kg)	S1E	5.44	6.58	7.71
	S2E	10.88	13.15	15.42

Dimensions

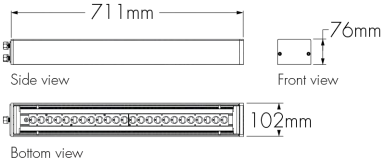
S40 and S60 (1 Board)



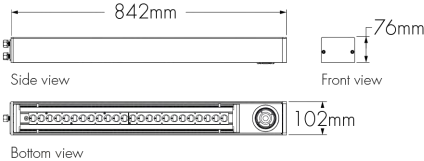
S40 and S60 (1 Board) - Motion Detector Option



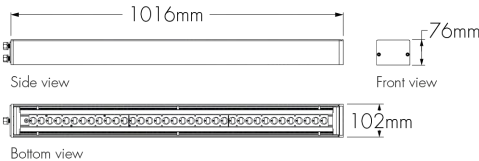
M80 and M100 (2 Boards)



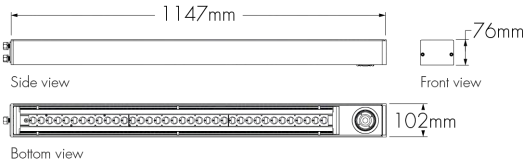
M80 and M100 (2 Boards) - Motion Detector Option



L120 And L140 (3 Boards)

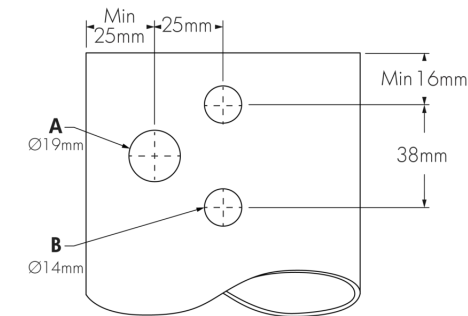


L120 And L140 (3 Boards) - Motion Detector Option



Pole Drilling Pattern

BLDS-S1E, BLDS-S2E, BLDS-S1E-3GV and BLDS-S2E-3GV Drilling Pattern



A - Wire feeding location  
B - (2X) for Ø1/2-13 bolts (included with luminaire)

Pole Mounting Adaptor

	Straight and muffler poles			Lumentech pole	
	102mm	127mm	152mm	127mm	152mm
Round shape	RPA4S	RPA5S	RPA6S	RPA5TS	RPA6TS
Square <sup>[1]</sup> shape	SPA4	SPA5	SPA6	n/a	SPA6T

Available configurations\*:

S1E Simple  
S2E Double


[1] Square poles do not require adaptors, specification codes are used by Lumenpulse to provide appropriate hardware for installation only.

\*Consult factory for other configurations.




## Photometric Information

## Type II, 3000K, CRI 80+, ClearSite Lens




Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B U G	Typical maximum power 120/277V (W)
<b>S40</b>	2,387	66	1 0 1	36
<b>S60</b>	3,472	63	1 0 1	55
<b>M80</b>	5,533	71	1 0 1	78
<b>M100</b>	7,268	63	2 0 2	115
<b>L120</b>	8,136	68	2 0 2	120
<b>L140</b>	9,330	67	2* 0* 2*	140

## Type III, 3000K, CRI 80+, ClearSite Lens




Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B U G	Typical maximum power 120/277V (W)
<b>S40</b>	2,704	75	1 0 1	36
<b>S60</b>	3,933	72	1 0 1	55
<b>M80</b>	6,268	80	2 0 2	78
<b>M100</b>	8,235	72	2 0 2	115
<b>L120</b>	9,218	77	2 0 2	120
<b>L140</b>	10,570	76	2* 0* 2*	140

## Type IV, 3000K, CRI 80+, ClearSite Lens



Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B U G	Typical maximum power 120/277V (W)
<b>S40</b>	2,253	63	1 0 1	36
<b>S60</b>	3,277	60	1 0 1	55
<b>M80</b>	5,223	67	2 0 2	78
<b>M100</b>	6,862	60	2 0 2	115
<b>L120</b>	7,681	64	2 0 2	120
<b>L140</b>	8,808	63	2* 0* 2*	140

## Type V Square, 3000K, CRI 80+, ClearSite Lens



Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B U G	Typical maximum power 120/277V (W)
<b>S40</b>	2,777	77	2 0 1	36
<b>S60</b>	4,039	73	3 0 1	55
<b>M80</b>	6,438	83	3 0 1	78
<b>M100</b>	8,458	74	3 0 2	115
<b>L120</b>	9,468	79	4 0 2	120
<b>L140</b>	10,856	78	4* 0* 2*	140

Photometric performance is measured in compliance with IESNA LM-79-19. Due to rapid and continuous advances in LED technology, photometric information is subject to change without notice.

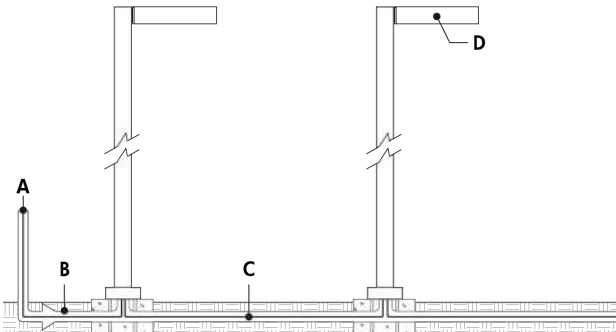


Typical Wiring Diagrams

Wiring Colour Code

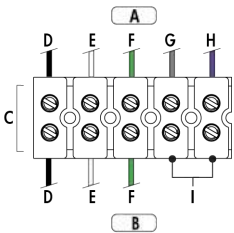
Color	Black	White	Green	Purple	Gray
Use	Line	Line/Neutral	Ground	0-10V+	0-10V -

On/Off Control (NO)



- A - Power input (120-480V, wiring by others)  
B - Conduit (by others)  
C - Power wiring (by others)  
D - Lumenblade

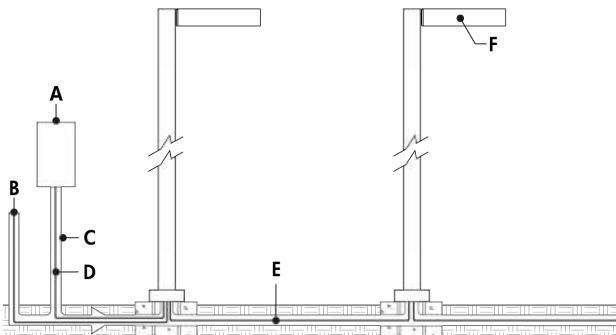
On/Off Control (NO) - Terminal Connector Wiring Detail



- A - To driver  
B - Power input or from previous fixture  
C - Terminal connector  
D - Line  
E - Line/Neutral  
F - Ground  
G - 0-10V -  
H - 0-10V +  
I - Not required

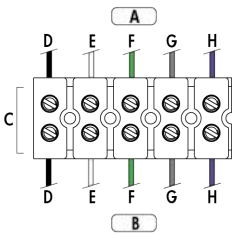
- Consult factory for specific applications and maximum fixture count/cable length recommendations.

0-10V Dimming (DIM)



- A - Dimmer (by others)  
B - Power input (120-480V, wiring by others)  
C - Conduit (by others)  
D - Data wiring (by others)  
E - Power and data wiring (by others)  
F - Lumenblade

0-10V Dimming (DIM) - Terminal Connector Wiring Detail

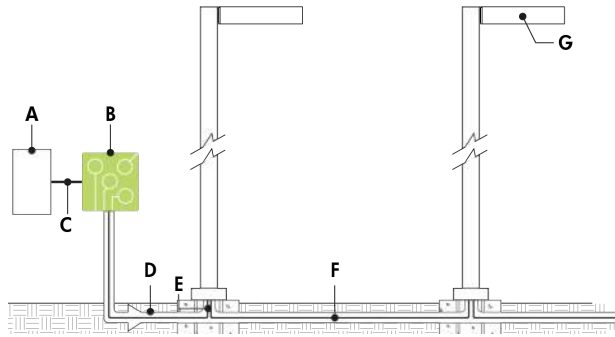


- A - To driver  
B - Power input or from previous fixture  
C - Terminal connector  
D - Line  
E - Line/Neutral  
F - Ground  
G - 0-10V -  
H - 0-10V +

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 0-10V mA ratings: passive dimmer (Current Sink): 3mA per fixture, active dimmer (Current Source): 0.5mA per fixture.
- 1% minimum dimming value.

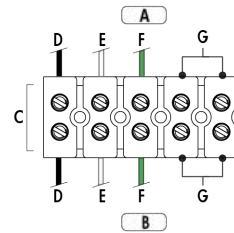


**Lumentalk (LT)**



- A - Third party dimmer/controller
- B - Lumentranslator (LTL-010)
- C - Data wiring (by others)
- D - Power line (120-277V, wiring by others)
- E - Conduit (by others)
- F - Power wiring (by others)
- G - Lumenblade

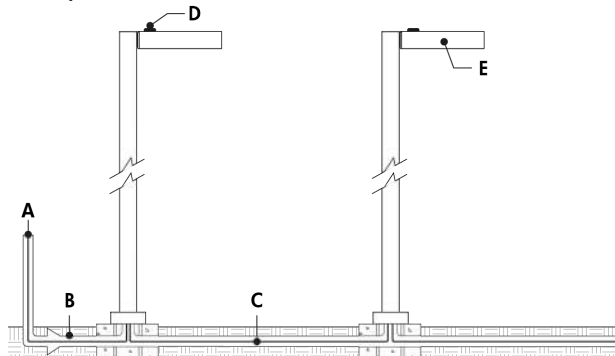
**Lumentalk (LT) - Terminal Connector Wiring Detail**



- A - To driver
- B - Power input or from previous fixture
- C - Terminal connector
- D - Line
- E - Line/Neutral
- F - Ground
- G - Not required

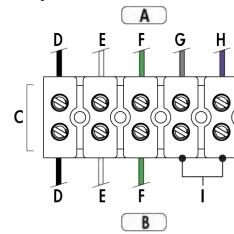
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID-LT. Consult factory for details.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system.
- No third party fixtures allowed on the same circuit

**3 Pins, 5 Pins and 7Pins Receptacle Control (SPR3, SPR3 SC, SPR5, SPR5 SC, SPR7, SPR7 SC)**



- A - Power input (120-480V, wiring by others)
- B - Conduit (by others)
- C - Power wiring (by others)
- D - Photoelectric control
- E - Lumenblade

**3 Pins, 5 Pins And 7Pins Receptacle Control (SPR3, SPR3 SC, SPR5, SPR5 SC, SPR7, SPR7 SC) - Terminal Connector Wiring Detail**

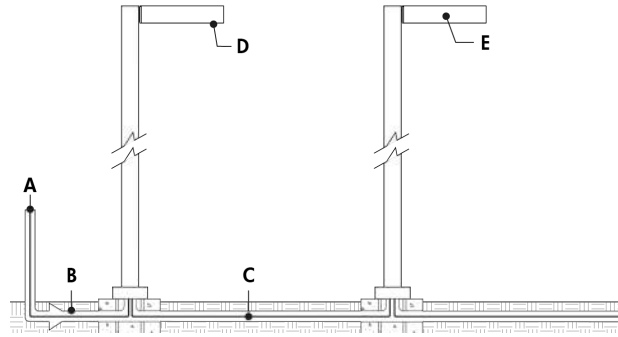


- A - To driver
- B - Power input or from previous fixture
- C - Terminal connector
- D - Line
- E - Line/Neutral
- F - Ground
- G - 0-10V -
- H - 0-10V +
- I - SPR3: Not required. SPR5/SPR7: From photocell receptacle



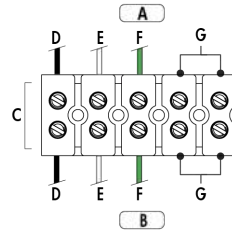


**Motion Detector Control (MDxx)**



- A - Power input (120-480V, wiring by others)
- B - Conduit (by others)
- C - Power wiring (by others)
- D - Motion detector
- E - Lumenblade

**Motion Detector (MDxx) - Terminal Connector Wiring Detail**



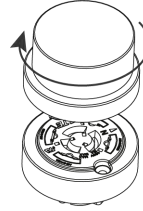
- A - To driver
- B - Power input or from previous fixture
- C - Terminal connector
- D - Line
- E - Line/Neutral
- F - Ground
- G - Not required

**Options**

**SPR3, SPR5 And SPR7 - 3-Pin, 5-Pin And 7-Pin Receptacles**



**SPR3 SC, SPR5 SC And SPR7 SC - 3-Pin, 5-Pin And 7-Pin Receptacles With Shorting Cap**



- Dimming receptacle meets ANSI C136.41 Standard



Motion Detector Options

Programming

	MD10N - Narrow lens, 10% dimming level	MD30N - Narrow lens, 30% dimming level	MD50N - Narrow lens, 50% dimming level	MDPN - Narrow lens, programmable	How to provide code:	
	100% (10V)	10% (1V)	100% (10V)	30% (3V)	100% (10V)	50% (5V)
High mode <sup>1</sup>	10V	10V	10V	<ul style="list-style-type: none"><li>• 5V - 10V (Increment: <b>0.2V</b>)</li></ul>	10V	
Low mode <sup>2</sup>	1V	3V	5V	<ul style="list-style-type: none"><li>• Off</li><li>• 0V - 9.8V (Increment: <b>0.2V</b>)</li></ul>	2.6V	
Time delay <sup>3</sup>	5 min	5 min	5 min	<ul style="list-style-type: none"><li>• 1 min - 30min (Increment: <b>30 seconds</b>)</li></ul>	10 min	
Cut off <sup>4</sup>	1 hr	1 hr	1 hr	<ul style="list-style-type: none"><li>• Disable</li><li>• 1 min - 59min (Increment: <b>30 seconds</b>)</li><li>• 1 hr - 5hr (Increment: <b>1 hour</b>)</li></ul>	3 hr	
Set point <sup>5</sup>	Dis	Dis	Dis	<ul style="list-style-type: none"><li>• Disable</li><li>• Auto</li><li>• 1 fc - 250fc (Increment: <b>1fc</b>)</li></ul>	Auto	
Sensitivity <sup>6</sup>	Max	Max	Max	<ul style="list-style-type: none"><li>• On-Fix</li><li>• Off-Fix</li><li>• Low</li><li>• Med</li><li>• Max</li></ul>	Med	
Ramp up <sup>7</sup> time	3 sec	3 sec	3 sec	<ul style="list-style-type: none"><li>• Disable</li><li>• 1 sec - 60sec (Increment: <b>1 second</b>)</li></ul>	10 sec	
Fade down <sup>8</sup> time	3 sec	3 sec	3 sec	<ul style="list-style-type: none"><li>• Disable</li><li>• 1 sec - 60sec (Increment: <b>1 second</b>)</li></ul>	10 sec	
Photocell <sup>9</sup> On/Off	Dis	Dis	Dis	<ul style="list-style-type: none"><li>• Disable</li><li>• 1fc - 250fc (Increment: <b>1fc</b>)</li></ul>	Dis	

<sup>1</sup> When the sensor detects motion, the dimming control output ramps up to the selected HIGH light level.  
<sup>2</sup> After the sensor stops detecting motion and the time delay expires, the dimming control output fades down to the selected LOW light level.  
<sup>3</sup> The selected time period that must elapse after the last time the sensor detects motion for the electric lights to fade to LOW mode.  
<sup>4</sup> The time period that must elapse after the lights fade to LOW mode, and the sensor detects no motion for the electric lights to turn OFF.  
<sup>5</sup> When enabled, the selectable ambient light level threshold that will hold the electric lights off or at LOW level when the sensor detects motion.  
<sup>6</sup> The response of the PIR detector to motion within the sensor's coverage area.  
<sup>7</sup> Time period for light level to increase from LOW to HIGH.  
<sup>8</sup> Time period for light level to decrease from HIGH to LOW.  
<sup>9</sup> When enabled, the sensor will force the load OFF after the light level has exceeded the selected photocell setpoint PRIOR SAVE SEND for at least a minute. It will also force the load ON when the light level goes below the setpoint, even if no motion is detected.  
<sup>10</sup> The motion detector programming can be modified on site. A remote is required, order separately. See Remote section in the specification sheet for details.

**Dimming:** When motion is detected within the sensor's coverage area, the sensor sends a signal to ramp the load up to the selectable High Mode level unless the ambient light level is higher than the selected setpoint. When no motion is detected for the duration of the time delay setting, the lights will go to the selectable Low Mode level based on the signal from the sensor. If desired, a cut off time delay will trigger to eventually turn the lights OFF.  
**Non dimming:** When motion is detected within the sensor's coverage area, the sensor sends a signal to turn the load ON unless the ambient light level is higher than the selected setpoint. When no motion is detected for the duration of the time delay setting, the lights will go OFF based on the signal from the sensor.  
**Dusk to dawn control:** When photocell on/off is enabled, and the ambient light falls below the photocell setpoint, the sensor ramps the load up to the selectable High Mode level. If no motion is detected for the duration of the time delay setting, the lights will go to the selectable Low Mode level. If the cut off time delay is disabled, the load will remain on, at High or Low level, based on motion detection, until the ambient light increases above the photocell setpoint.

Coverage Area

Narrow Lens (MD10N, MD30N, MD50N and MDPN)\*



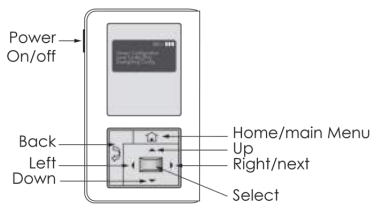
\* Maximum 6.1 m height, 12.2 m diameter coverage area

High temperatures at the covered area (above 31 °C - 33 °C) reduce the detection zone of the sensor. Consider adding more sensors if the ambient temperatures are expected to be high. Additionally, high floor level temperature may require larger movement for detection. Coverages shown in the diagrams are maximum, measured in linear feet. They represent coverage for full-step walking motion, with no obstacles.



Remote (Order Separately)

MDRC001 - Remote to Program Motion Detector on Site



- Compatible with all motion detector options.



How to Order

Housing	Mounting	Voltage	Lens <sup>(3)</sup>	Output (Nominal Lumens)	Colour and Colour Temperature	Colour Rendering	Distributions	Finish	Control	Option	Pole Mounting Adaptor <sup>(23)</sup>
BLDS Lumenblade Small <sup>(1)</sup>	SD Side Mounting	120 120 volts  208 208 volts  240 240 volts  277 277 volts  347 347 volts <sup>(2)</sup>  480 480 volts <sup>(2)</sup>	CSL Clearsite Lens	S40 4000lm (1 board, 476 mm) <sup>(2)</sup> <sup>(4)</sup> <sup>(5)</sup>  S60 6000lm (1 board, 476 mm) <sup>(2)</sup> <sup>(4)</sup>  M80 8000lm (2 boards, 711 mm) <sup>(4)</sup>  M100 10000lm (2 boards, 711 mm) <sup>(4)</sup>  L120 12000lm (3 boards, 1016 mm) <sup>(4)</sup>  L140 14000lm (3 boards, 1016 mm) <sup>(4)</sup>	22K 2200K <sup>(4)</sup>  27K 2700K <sup>(7)</sup>  30K 3000K	CRI 70 CRI 70+ <sup>(8)</sup>  CRI 80 CRI 80+ <sup>(9)</sup>  CRI 90 CRI 90+ <sup>(10)</sup>	2 Type II  2BLS Type II Backlight Shield  3 Type III  3BLS Type III Backlight Shield  4 Type IV  4BLS Type IV Backlight Shield  5S Type V Square	BK Black Sandtex®  BRZ Bronze Sandtex®  SI Silver Sandtex®  BKTX Textured Black  BRZTX Textured Bronze Non- Metallic  GRATX Textured Medium Grey  GRNTX Textured Green  WHTX Textured White  CC Custom Colour & Finish <sup>(11)</sup> <sup>(12)</sup> <sup>(13)</sup>	DIM 0-10V Dimming <sup>(14)</sup>  LT Lumentalk <sup>(15)</sup>	3GV 3G ANSI C136.31-2010 Vibration Rating for Bridge Applications <sup>(15)</sup>  CRC Corrosion-resistant coating <sup>(16)</sup> <sup>(17)</sup>  SP Surge Protector <sup>(18)</sup>  SPR3 3-Pin Receptacle <sup>(19)</sup>  SPR3 SC 3-Pin Receptacle with Shorting Cap <sup>(19)</sup>  SPR5 5-Pin Receptacle <sup>(19)</sup>  SPR5 SC 5-Pin Receptacle with Shorting Cap <sup>(19)</sup>  SPR7 7-Pin Receptacle <sup>(19)</sup>  SPR7 SC 7-Pin Receptacle with Shorting Cap <sup>(19)</sup>  MD10N Motion Detector 10% Factory-set Dimming Level [Narrow Lens] <sup>(20)</sup> <sup>(21)</sup>  MD30N Motion Detector 30% Factory-set Dimming Level [Narrow Lens] <sup>(20)</sup> <sup>(21)</sup>  MD50N Motion Detector 50% Factory-set Dimming Level [Narrow Lens] <sup>(20)</sup> <sup>(21)</sup>  MDPN Motion Detector Programmable, Factory- set Dimming Level [Narrow Lens] <sup>(20)</sup> <sup>(21)</sup> <sup>(22)</sup>	RPA4S Round pole adaptor for Ø102 mm pole  RPA5S Round pole adaptor for Ø127 mm pole  RPA6S Round pole adaptor for Ø152 mm pole  SPA4 Square pole adaptor for Ø102 mm pole  SPA5 Square pole adaptor for Ø127 mm pole  SPA6 Square pole adaptor for Ø152 mm pole  RPA5TS Round pole adaptor for Lumentech Ø127 mm pole  RPA6TS Round pole adaptor for Lumentech Ø152 mm pole  SPA6T Square pole adaptor for Lumentech Ø152 mm pole

Notes:

1. Product code is for a single fixture only [S1E configuration]. For double configuration [S2E], a second product code must be completed.

2. Not available with LT control option.

3. Consult factory for Softsite lens option. Available for 3000lm (1 board), 5000lm (2 boards) and 7000lm (3 boards) outputs.

4. Motion detector options add 130 mm to total length of fixture.

5. Available up to 277V.

6. Available for CRI 80 only.

7. Available for CRI 80 and CRI 90 only.

8. Binning within a 3-step MacAdam ellipse.

9. Binning within a 2-step MacAdam ellipse, with the exception of 2200K.

10. Binning within a 2-step MacAdam ellipse.

11. Specify RAL number followed by "TX" for textured finish (ex: RAL9007TX) or STX for Sandtex finish (ex: RAL9007STX). Textured or Sandtex finishes are recommended for the durability of all products. If a finish is not specified with the RAL number (ex: RAL9007), a glossy finish will be provided. Please consult factory for other RAL textures and glosses, or to match alternate colour charts. Final colour matching results may vary.
12. Setup charges apply for RAL colours. Consult factory for details.

13. Longer lead times can be expected for custom RAL colour finishes.

14. DIM control can be used as NO (On/Off control) if no data is required.

15. Not available with SPR options and MD options Not available with SPR3, SPR3 SC, SPR5, SPR5 SC, SPR7 and SPR7 SC 3-Pin, 5-Pin, and 7-Pin receptacles options and MD10N, MD30N, MD50N and MDPN motion detector options.

16. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.

17. Setup charges apply. Consult factory for details.

18. Not available with 347V and 480V voltage options when combined with lumen output 540.

19. Only one receptacle can be specified per fixture, cannot be combined with motion detector option.

20. The motion detector programming can be modified on site. A remote is required, order separately. See Remote section in the specification sheet for details.

21. Only one motion detector can be specified per fixture, cannot be combined with a receptacle.

22. The motion detector is programmed in the factory, as per the settings requested at the time of the order.

23. Consult Pole Mounting Adaptor section for standard available configurations.



Project Name

Qty

Type

Catalog / Part Number



Round

4

Ø102mm

5

Ø127mm

6

Ø152mm

Square

4

102mm

5

127mm

6

152mm

Fluted

4

Ø102mm

5

Ø127mm

Available Pole Shapes  
(Consult "Configurations Table"  
Section for more details)

Base cover options



Description

Lumenpulse Straight Poles are available in steel or aluminium of various diameters and profiles to suit your outdoor design. Our Straight Poles are suitable for use with our accessories, such as Banner Arms, Basket Holders and choice of Base Cover. Lumenpulse Straight Poles are available in multiple finishes.

Features

Dimensions	102 mm , 127 mm , 152 mm
Shapes	Round , Square , Fluted
Height	Up to 9.1 m, to specify height in 0.3 m increments (consult configurations table for maximum height informations)
Option	Ground Fault Duplex Receptacle Ground Fault Duplex Receptacle (while in use) Direct Burial Tamper-Proof Screws Corrosion-resistant Coating for Hostile Environments Galvanised Steel Universal Yoke drilling pattern Pressure Gland drilling pattern

Warranty 5-year limited warranty

Physical

Material	Aluminium , Steel
Access Door Dimensions	54 mm x 102 mm
Wall Thickness	3 mm , 5 mm , 6 mm , 8 mm
Anchor Bolt Material	Carbon steel partially galvanised
Hardware Material	Stainless steel



Certifications



Surface Finish	Super durable resistant exterior polyester powder coating meets AAMA 2604-98 requirements (5-years Florida exposure). A corrosion resistant finish (CRC) pre-finish is available to meet ASTM B-117 & ASTM D-1654 (salt spray resistance) and ASTM D-2247 requirements (humidity resistance).
Pole Top Options	60 mm, 76 mm and 102 mm O.D. Tenon Adapter, Flat Cap, Drilling Pattern for Decorative Arms, MC1 Arm Style Tenon Adaptor Simple and Double Drilling Pattern for Lumenblade Small and Lumenblade Medium, Simple and Double Drilling Pattern for Lumenblade Small and Lumenblade Medium (for 3G ANSI C136.31-2010 Vibration Rating for bridge applications).
Grounding Terminal	Copper single-conductor (UL listed, accessible from pole hand hole)

Environmental









Environment	Dry/damp/wet location
-------------	-----------------------

Accessories - optional (Order Separately)

Arms	Banner Arm (top only, or top and bottom) Plant Holder Arm (single or double)
Fixture Mounting	Universal Yoke
Hardware	Pressure Gland



Configurations Table

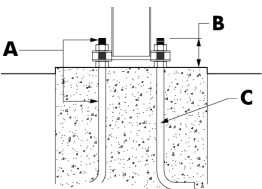
Shapes	Round			Square			Fluted*	
								
Maximum Height (material)	Aluminium: 6.1 m Steel: 6.1 m	Aluminium: 6.1 m Steel: 9.1 m	Aluminium: 9.1 m Steel: 9.1 m	Aluminium: 6.1 m Steel: 7.3 m	Aluminium: 6.1 m Steel: 9.1 m	Aluminium: 6.1 m* Steel: 9.1 m	Aluminium: 6.1 m	Aluminium: 6.1 m
Compatible Base Cover Options	Up to 6.1m P WL WA WM WB WO WC WP WF WR WH WS WI WY WJ WYX	Up to 6.1m P WM WA WO WC WP WF WR WH WS WI WY WJ WYX WL  6.4m to 9.1m P WM WF WO WH WR WI WS WL WYX	Up to 6.1m P WL WC WO WI WY WJ WYX  6.4m to 9.1m P WO	Up to 6.1m P   6.4m to 9.1m P			Up to 6.1m P WL WA WM WB WO WC WP WF WR WH WS WI WY WJ WYX	Up to 6.1m P WM WA WO WC WP WF WR WH WS WI WY WJ WYX WL
Compatible Accessories	BA, PH, PLTU	BA, PH, PLTU	PLTU	PLTU			BA, PH	BA, PH

\*Available for 5 mm wall thickness (M) only.  
Consult individual Pole Accessory specification sheet for details.



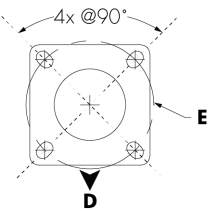
Anchoring Details

Anchor Details











- A - Galvanised Steel portion
- B - The threads of Anchor Bolts must protrude between 76 mm and 89 mm from concrete base.
- C - (4X) Anchors Bolt, supplied with two Nuts and Flats Washers for each (provided).

Bolt Circle



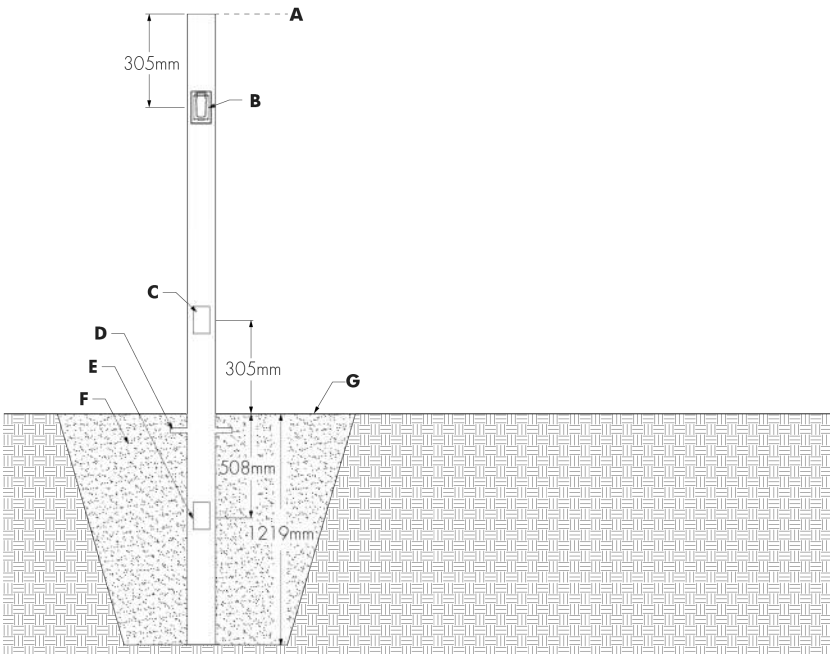
- D - Access Door and Street Side
- E - Bolt Circle

Shapes	Aluminium				Steel			
	Anchor Bolts		Bolt Circle		Anchor Bolts		Bolt Circle	
	Up to 6.1 m	6.4 m to 9.1 m	Up to 6.1 m	6.4 m to 9.1 m	Up to 6.1 m	6.4 m to 9.1 m	Up to 6.1 m	6.4 m to 9.1 m
102 mm   	Ø3/4 in x 26 in	N/A	Ø216 mm	N/A	Ø3/4 in x 26 in	Ø1 in x 36 in	Ø216 mm	Ø254 mm
127 mm   	Ø3/4 in x 26 in	N/A	Ø254 mm	N/A	Ø3/4 in x 26 in	Ø1 in x 36 in	Ø254 mm	Ø292 mm
152 mm  	Ø3/4 in x 26 in	Ø1 in x 36 in	Round and Fluted: 254 mm Square: 292 mm	Ø356 mm	Ø3/4 in x 26 in	Ø1 in x 36 in	Round and Fluted: Ø254 mm Square: Ø292 mm	Ø356 mm





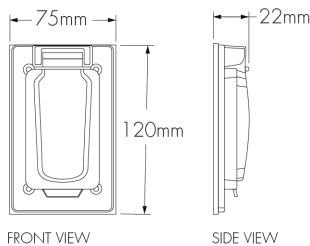
Direct Burial And Ground Fault Duplex Receptacle Options Details



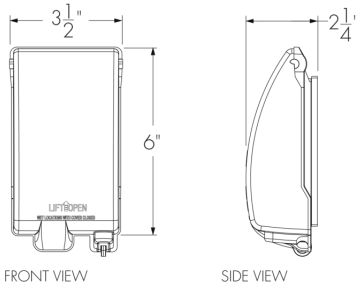
- A - External maximum height for direct burial: 7.9 m (1.2 m needed for landfill)
- B - Standard location of Ground Fault Duplex Receptacle (DRG and DRG IU) is 305 mm from the top on door side (consult factory for other configurations).
- C - Access Door
- D - Anti-Rotating blade
- E - Opening for conduit
- F - Filling
- G - Finished grade

Duplex Receptacle Installation Dimensions

DRG - Ground Fault Duplex Receptacle



DRG IU - Ground Fault Duplex Receptacle (while in use)\*



\* Weather-resistant and lockable cover (padlock by others)

The duplex receptacle must be installed in accordance with applicable national and local electrical and construction codes by a person familiar with the construction and operation of the product and the hazards involved. Refer to national and local electrical codes before selecting a duplex receptacle to ensure all requirements are met.



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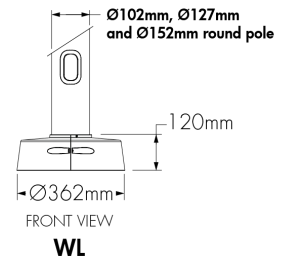
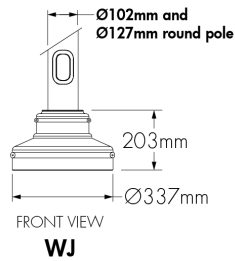
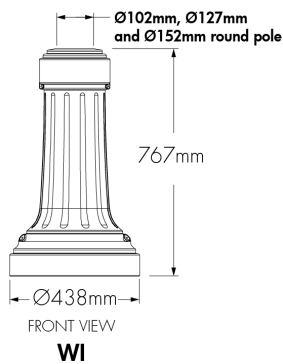
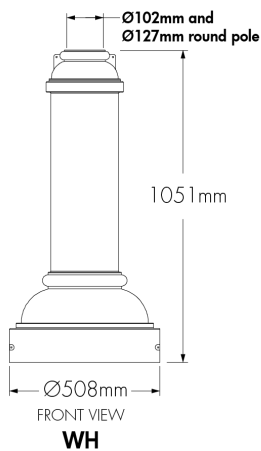
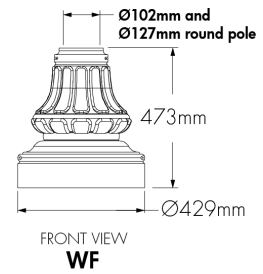
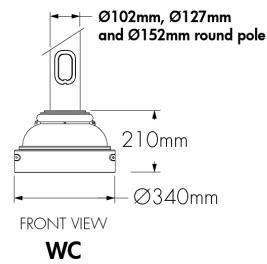
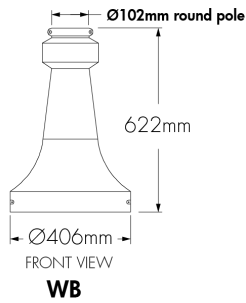
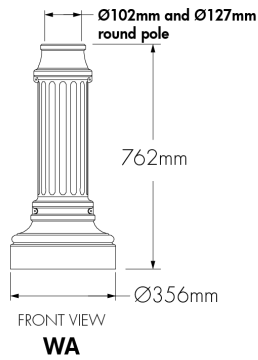
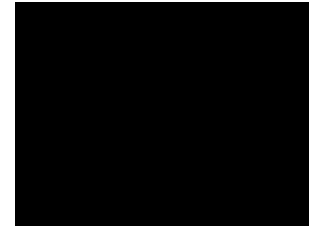
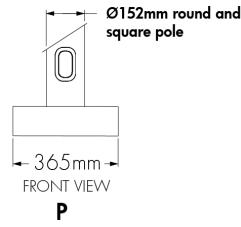
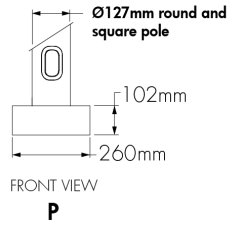
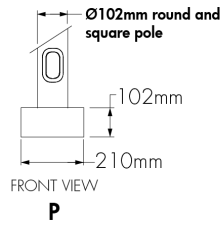


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Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch  
**Date:** Issued for Tender - April 1, 2025

Fixture Type:  
**LP1 Series**  
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Base Cover Options Dimensions



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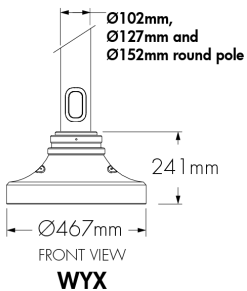
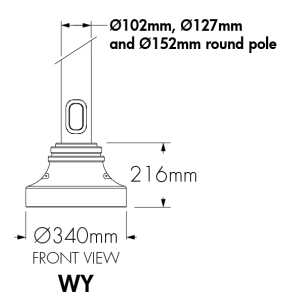
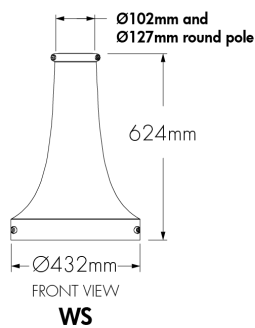
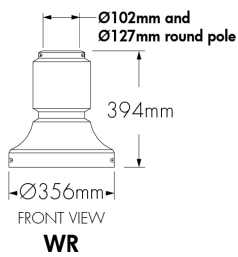
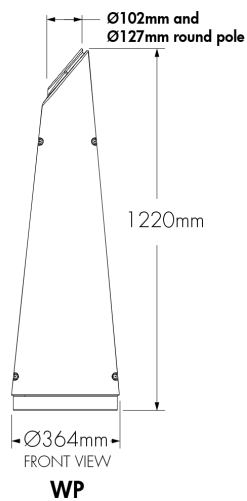
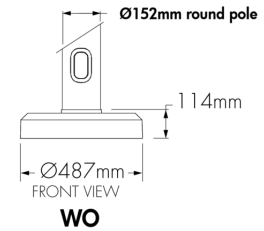
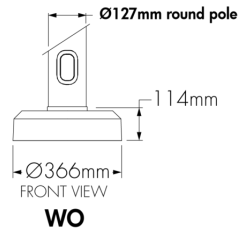
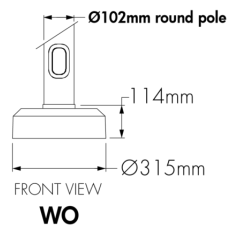
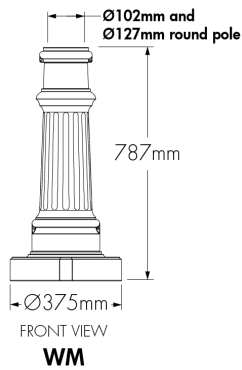
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Fixture Type:

**LP1 Series**

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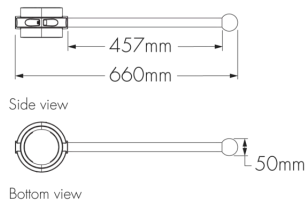
Fixture Type:

**LP1 Series**

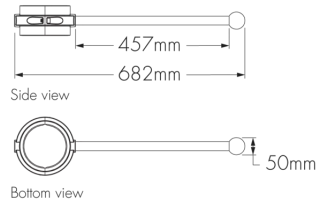
Page 18 of 25

Banner Arm Dimensions\*

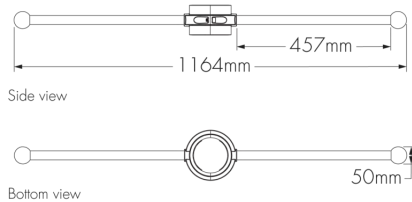
BA-X-CLMP-18-S1X-4-R



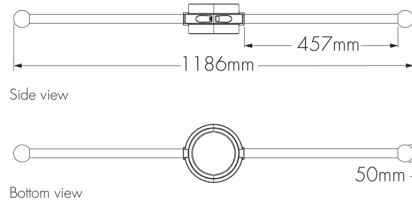
BA-X-CLMP-18-S1X-5-R



BA-X-CLMP-18-S2X-4-R



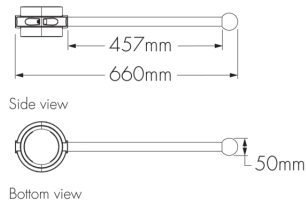
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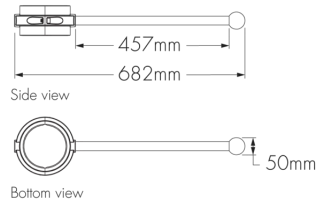
Order separately, consult Banner Arm specification sheet for details.  
\* Specify banner dimensions, installation height and orientation in the Ordering Specifications section.

Plant Holder Arm Dimensions\*

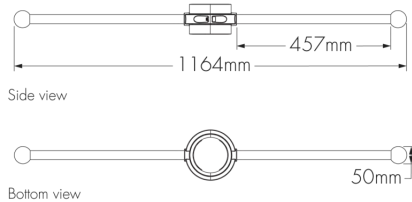
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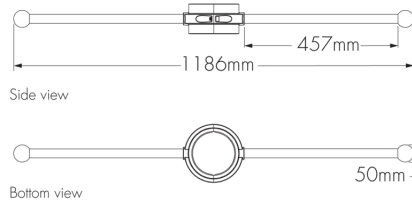
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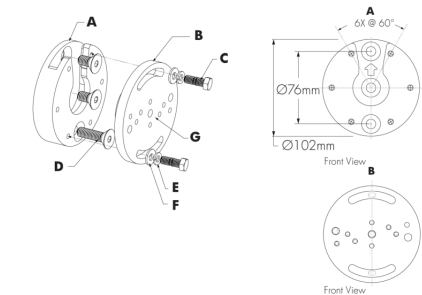
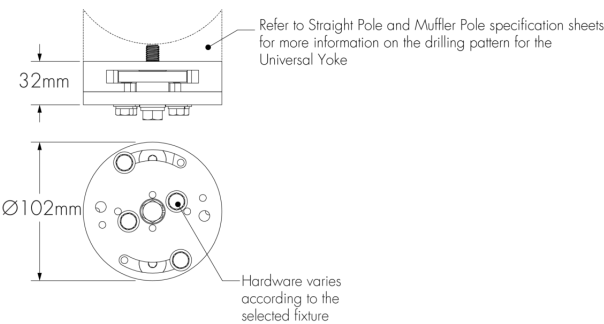
PH-CLMP-18-S2X-5-R/F



Order separately, consult Plant Holder Arm specification sheet for details.  
\* Specify basket dimensions and weight (maximum load 36.29 kg wet), as well as installation height and orientation in the Ordering specifications section.



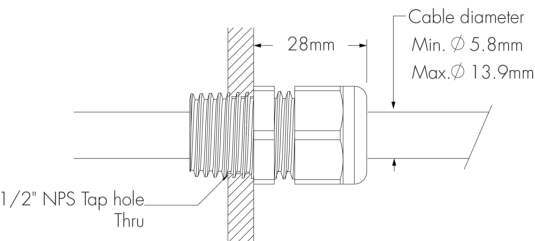
Universal Yoke Dimensions



- A - Fixed part (Skate included)
- B - 360° swivel part
- C - (2X) 1/4-20 Bolts (included, use to assemble 360° swivel part to fixed part)
- D - (2X) 3/8-16 Bolts
- E - (2X) Lock Washer
- F - (2X) Flats Washer
- G - For 3/8-16 or 1/4-20 Bolts (included when ordered with a Lumenbeam product, refer to Drilling Pattern of installation instruction for more details)

Order separately, consult Universal Yoke specification sheet for details.

Pressure Gland Dimensions

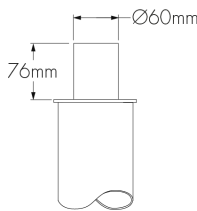


Order separately, consult Pressure Gland specification sheet for details.

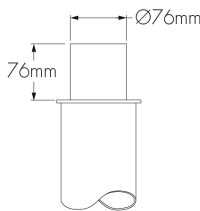


Pole Top Options Details

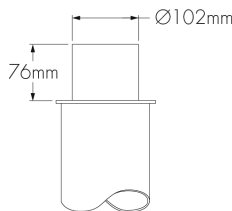
TN2 - 60 mm O.D. Tenon Adapter



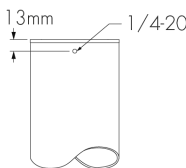
TN3 - 76 mm O.D. Tenon Adapter



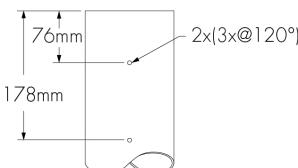
TN4 - 102 mm O.D. Tenon Adapter



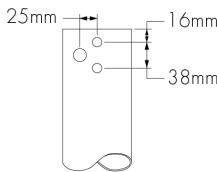
CAP - Flat Cap



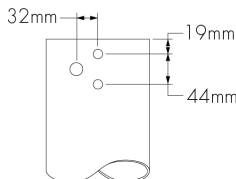
BRK - Drilling Pattern For Decorative Arms [1]



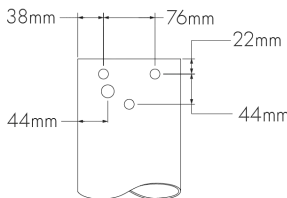
BLDS-S1E [2], BLDS-S2E [3], BLDS-S1E-3GV [2] and BLDS-S2E-3GV [3] - Drilling Pattern for Lumenblade Small [4]



BLDM-S1E [2] and BLDM-S2E [3] - Drilling Pattern for Lumenblade Medium [4]



BLDM-S1E-3GV [2] and BLDM-S2E-3GV [3] - Drilling Pattern for Lumenblade Medium [4]

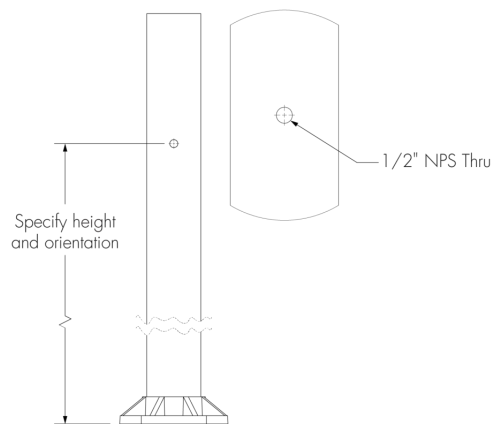


[1] Consult Decorative Arm specification sheets for more details.  
[2] Standard orientation for **S1E** configuration is 0° (access door)  
[3] Standard orientation for **S2E** configuration is 0° and 180° from access door.  
[4] Flat cap included.



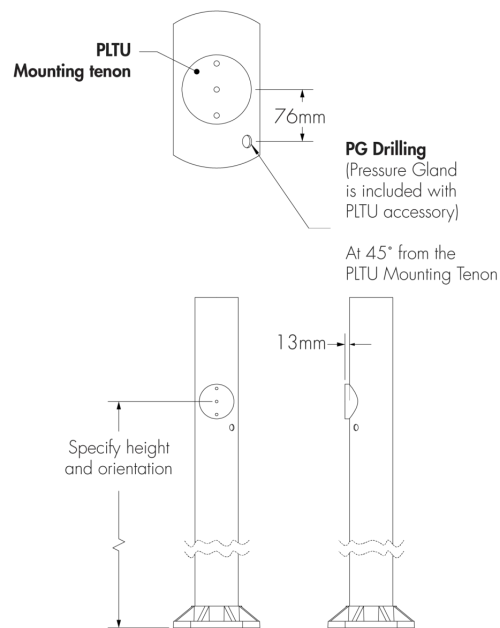
Pole Accessory Drilling Patterns

PG - Pressure Gland Drilling Pattern

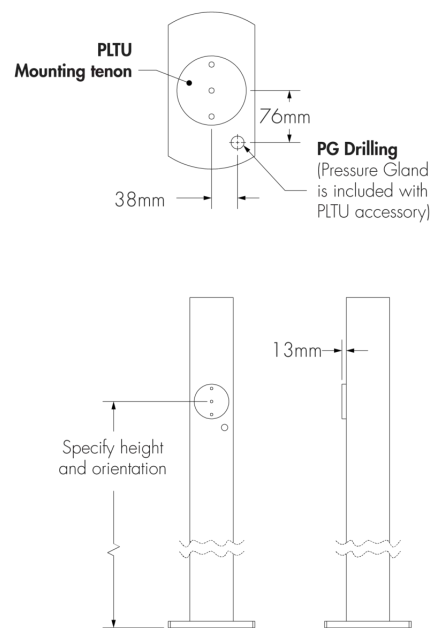


PLTU - Universal Yoke Drilling Pattern

Round Pole Shape



Square Pole Shape



Ordering Specifications  
(Specifications Are Used For EPA Calculations)\*

180°

270°

90°

0°

(Access door)

180°

270°

90°

0°

(Access door)

180°

270°

90°

0°

(Access door)

	Product code	Orientation (0°, 90°, 180°, 270°)	Height (consult "configuration table" section for maximum height)	Weight (please specify weight of accessories)	Dimensions (please specify dimensions of accessories)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

\* In addition to specifying installation height and orientation, don't forget to include specific details for each accessory:

**Universal Yoke (PLTU)/Small and Large Skate for Lumentech (SSK, LSK)**  
- If used with a fixture from another manufacturer, consult factory.

**Banner Arm (BA)**  
- Specify banner dimensions.

**Street Sign holder (SSH)**  
- Specify dimensions of sign to be mounted on Street Sign Holder.

**Plant Holder Arm (PH)**  
- Specify basket size and weight (maximum 36.29 kg wet).

**Pressure Gland (PG)**  
- If used with a fixture from another manufacturer, specify the weight and dimensions of this fixture.





Pole <sup>(1)</sup>	Dimensions	Material	Shapes	Height <sup>(4)</sup>	Wall Thickness <sup>(5)</sup>	Finish	Base Cover Options <sup>(4)</sup>	Pole Top Options	Option	Anchor Bolts Option
PL-S Straight Pole	4 102 mm	AL Aluminium	R Round	10 3 m	L 3 mm <sup>(4)</sup>	BK Black Sandtex®	P Square Base Cover P for 102 mm, 127 mm and 152 mm Pole <sup>(12)</sup>	TN2 60 mm O.D. Tenon Adapter	DRG Ground Fault Duplex Receptacle <sup>(20)</sup>	A8 Anchor Bolts <sup>(24)</sup>
	5 127 mm	STL Steel	S Square	11 3.4 m	M 5 mm	BRZ Bronze Sandtex®	WA Round Base Cover WA for 102 mm and 127 mm Pole <sup>(13)</sup>	TN3 76 mm O.D. Tenon Adapter	DRG IU Ground Fault Duplex Receptacle (while in use) <sup>(20)</sup>	
	6 152 mm		F Fluted <sup>(2) (3)</sup>	12 3.7 m	H 6 mm <sup>(7)</sup>	SI Silver Sandtex®	WB Round Base Cover WB for 102 mm Pole <sup>(13)</sup>	TN4 102 mm O.D. Tenon Adapter <sup>(14)</sup>	DB Direct Burial <sup>(21)</sup>	
				13 4 m	W 8 mm <sup>(8)</sup>	BKTX Textured Black	WC Round Base Cover WC for 102 mm, 127 mm and 152 mm Pole <sup>(13)</sup>	CAP Flat Cap	TP Tamper-Proof Screws	
				14 4.3 m		BRZTX Textured Bronze	WF Round Base Cover WF for 102 mm and 127 mm Pole <sup>(13)</sup>	BRK Drilling Pattern for Decorative Arms	CRC Corrosion-resistant coating <sup>(22) (23)</sup>	
				15 4.6 m		GRATX Textured Medium Grey	WH Round Base Cover WH for 102 mm and 127 mm Pole <sup>(13)</sup>	BLDS-S1E Simple Drilling Pattern for Lumenblade Small <sup>(15) (16)</sup>	GALV Galvanised Steel <sup>(24)</sup>	
				16 4.9 m		GRNTX Textured Green	WI Round Base Cover WI for 102 mm, 127 mm and 152 mm Pole <sup>(13)</sup>	BLDS-S2E Double Drilling Pattern for Lumenblade Small <sup>(15) (16)</sup>	PLTU Universal Yoke drilling pattern <sup>(25)</sup>	
				17 5.2 m		WHITX Textured White	WJ Round Base Cover WJ for 102 mm and 127 mm Pole <sup>(13)</sup>	BLDM-S1E Simple Drilling Pattern for Lumenblade Medium <sup>(15)</sup>	PG Pressure Gland drilling pattern <sup>(25)</sup>	
				18 5.5 m		CC Custom Colour & Finish <sup>(9) (10) (11)</sup>	WL Round Base Cover WL for 102 mm, 127 mm and 152 mm Pole <sup>(13)</sup>	BLDM-S2E Double Drilling Pattern for Lumenblade Medium <sup>(15)</sup>		
				19 5.8 m			WM Square Base Cover WM for 102 mm and 127 mm Pole <sup>(13)</sup>	BLDS-S1E-3GV Simple Drilling Pattern for Lumenblade Small (for 3G ANSI C136.31-2010 Vibration Rating for bridge applications)		
				20 6.1 m			WO Round Base Cover WO for 102 mm, 127 mm and 152 mm Pole <sup>(13)</sup>	BLDS-S2E-3GV Double Drilling Pattern for Lumenblade Small (for 3G ANSI C136.31-2010 Vibration Rating for bridge applications) <sup>(17)</sup>		
				21 6.4 m			WP Round Base Cover WP for 102 mm and 127 mm Pole <sup>(13)</sup>	BLDM-S1E-3GV Simple Drilling Pattern for Lumenblade Medium (for 3G ANSI C136.31-2010 Vibration Rating for bridge applications) <sup>(18)</sup>		
				22 6.7 m			WR Round Base Cover WR for 102 mm and 127 mm Pole <sup>(13)</sup>	BLDM-S2E-3GV Double Drilling Pattern for Lumenblade Medium (for 3G ANSI C136.31-2010 Vibration Rating for bridge applications) <sup>(18)</sup>		
				23 7 m			WS Round Base Cover WS for 102 mm and 127 mm Pole <sup>(13)</sup>	TNMC1 MC1 Arm Style Tenon Adaptor <sup>(19)</sup>		
				24 7.3 m			WY Round Base Cover WY for 102 mm, 127 mm and 152 mm Pole <sup>(13)</sup>			
				25 7.6 m			WYX Round Base Cover WYX for 102 mm, 127 mm and 152 mm Pole <sup>(13)</sup>			
				26 7.9 m						
				27 8.2 m						
				28 8.5 m						
				29 8.8 m						
				30 Maximum height 9.1 m						

1. Consult Related Products section on webpage for a selection of compatible accessories (sold separately).
2. Available for 3/16 in wall thickness only (M).
3. Available for Q4 in and Q5 in aluminium poles only.
4. Consult Configuration table of specification sheet for more details regarding restrictions on base covers and pole heights.
5. Determined by Lumerpole.
6. Not available for 152 mm aluminium and steel square pole. Not available for fluted pole.
7. Not available for 152 mm aluminium square pole. Not available for 102 mm and 152 mm steel square pole. Not available for fluted pole.
8. Not available for 152 mm aluminium round pole. Not available for aluminium square pole. Not available for 127 mm steel round pole. Not available with 152 mm steel square pole. Not available with fluted pole.
9. Specify RAL number followed by "TX" for textured finish (ex: RAL9007TX) or STX for Standard finish (ex: RAL9007STX). Textured or Standard finishes are recommended for the durability of all products. If a finish is not specified with the RAL number (ex: RAL9007), a glossy finish will be provided. Please consult factory for other RAL textures and glosses, or to match alternate colour charts. Final colour matching results may vary.
10. Setup charges apply for RAL colours. Consult factory for details.
11. Longer lead times can be expected for custom RAL colour finishes.

12. Available for round, square and fluted pole.

13. Available with round and fluted pole only.

14. TH4 tenon adaptor not required with 102 mm round pole.

15. Flat cap included.

16. Consult factory for availability with fluted shape poles.

17. Available for 102 mm poles with wall thicknesses L and M only.

18. Available with 152 mm pole dimension only.

19. TNMC1 Tenon adaptor required when MC1 post-top arm style selected.
20. Only one duplex receptacle can be specified by fixture.

21. Available for a maximum height of 16 ft for Ø4 in and Ø5 in aluminium pole and Ø4 in steel pole. Available for a maximum height of 26 ft for Ø6 in aluminium pole and for Ø5 in and Ø6 in steel pole.

22. Automatically included when a steel pole is specified.

23. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.

24. Only available for steel poles with textured finish (immersion marks may occur).

25. Consult factory for details.

26. Anchor bolts provided with double nuts, washers and template. One template provided for every 5 poles.



Project Name

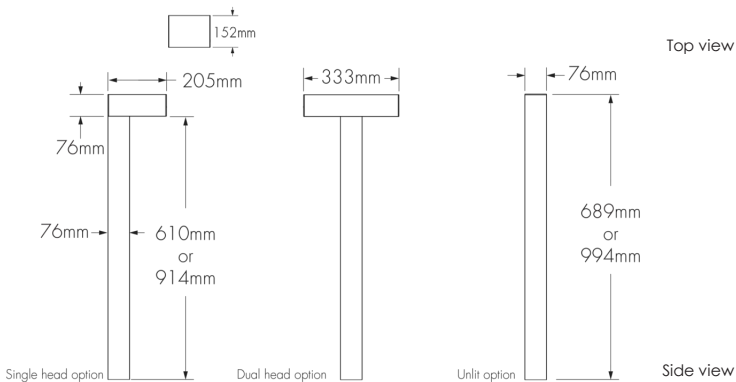
Qty

Type

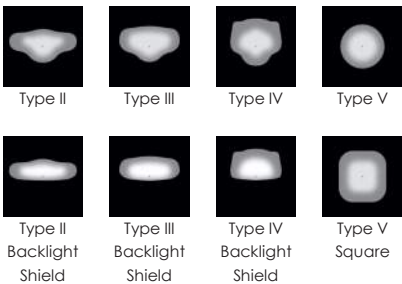
Catalog / Part Number



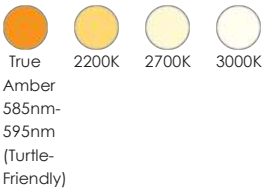
Single head option shown



Distributions



Colour and Colour Temperature



Control

ON/OFF 0-10V LT

Ratings

IP66 (optical chamber) IK06 (lens) IK10\* (frame)  
\*IK10 polycarbonate lens option available, consult factory.

Description

The Lumenpulse Lumenblade Bollard is an outdoor LED luminaire that uses a rectilinear version of the Lumencentro light engine to create a continuous line of light. Options include heights of either two-feet or three-feet, with a Single or Dual head. Its seen-but-not-seen, minimalist design is sustainable, blends with both contemporary and heritage architectures, provides a high level of security, and is sensitive to the natural environment with DarkSky approval, low outputs, and a BUG rating of 0.

Features

Mounting	Single head, Dual head, Unlit bollard
Height	0.6 m, 0.9 m
Distributions	Type II, Type III or Type IV (with or without backlight shield), Type V, Type V square
Optical Option (factory installed)	Louvre
Colour and Colour Temperature	True Amber 585nm-595nm (Turtle-Friendly), 2200K, 2700K, 3000K
Vibration Rating	Meets ANSI C136.31-2018 vibration rating for Bridge & Overpass applications
Options	Vibration Rated for Bridge and Overpass, Corrosion-resistant Coating for Hostile Environments, Surge Protector, Photoelectric Cell Button Type, Ground Fault Duplex Receptacle, Duplex Receptacle with USB A and USB C
Warranty	5-year limited warranty
Performance	
Output (Nominal Lumens)	Minimum 200lm (single head)/ Maximum 2000lm (dual head)
Efficacy	Up to 86 lm/W (N10 lumen output, 3000K, CRI 80+, Type III)
Colour Rendering	3 SDCM for CRI 70+, 2 SDCM for CRI 80+ and CRI 90+



DarkSky Certification



Certifications



Lumen Maintenance	TM-21 L70 > 145,000 hrs (reported, Ta 25 - 50 °C [77 - 122 °F])
DarkSky	DarkSky Approved (2200K, 2700K, 3000K and Amber colour temperatures, BUG rating of U0)

Physical

Head Option	Bollard Head
Housing Material	Extruded aluminium 6000 alloy series
Lens Material	Optical tempered clear glass (Clearsite lens), Optical tempered frosted glass (Frostsight lens), Optical tempered half-frosted glass (Half-Frostsight lens)
Surface Finish	Super durable resistant exterior polyester powder coating meets AAMA 2604-98 requirements (5-years Florida exposure). A corrosion resistant finish (CRC) pre-finish is available to meet ASTM B-117 & ASTM D-1654 (salt spray resistance) and ASTM D-2247 requirements (humidity resistance).
Weight	7.5 kg

Electrical and Control

Voltage	120 volts, 208 volts, 240 volts, 277 volts, 347 volts, 480 volts
Control	On/Off Control, 0-10V Dimming, Lumentalk

Environmental

Storage Temperature	-40°C to 50°C [-40°F to 122°F] (device must reach start-up temperature value before operating)
Operating Temperature	-40°C [-40 °F] to 50°C [122 °F]
Start-up Temperature	-25°C [-13 °F] to 50°C [122 °F]
Impact Resistance Rating	IK06 (glass lens) IK10 (frame) *IK10 polycarbonate lens option available, consult factory
Ingress Protection Rating	IP66 (optical chamber) Wet location rated
Environment	Dry/damp/wet location



**Photometric Information**
**Type II, 3000K, CRI 80+, Clearsite Lens**

	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating			Typical maximum power 120/277V (W)
				B	U	G	
	<b>N03</b>	183	61	0	0	0	3
	<b>N05</b>	366	61	0	0	0	6
	<b>N07</b>	576	64	0	0	0	9
	<b>N10</b>	750	68	0	0	0	11

**Type III, 3000K, CRI 80+, Clearsite Lens**

	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating			Typical maximum power 120/277V (W)
				B	U	G	
	<b>N03</b>	199	66	0	0	0	3
	<b>N05</b>	399	67	0	0	0	6
	<b>N07</b>	627	70	0	0	0	9
	<b>N10</b>	817	74	0	0	0	11

**Type IV, 3000K, CRI 80+, Clearsite Lens**

	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating			Typical maximum power 120/277V (W)
				B	U	G	
	<b>N03</b>	163	54	0	0	0	3
	<b>N05</b>	325	54	0	0	0	6
	<b>N07</b>	511	57	0	0	0	9
	<b>N10</b>	666	60	0	0	0	11

**Type V Square, 3000K, CRI 80+, Clearsite Lens**

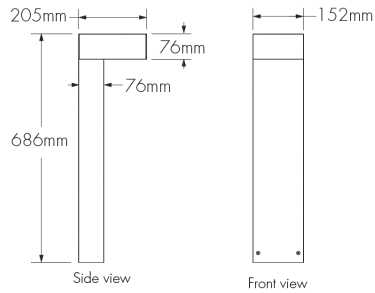
	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating			Typical maximum power 120/277V (W)
				B	U	G	
	<b>N03</b>	167	56	0	0	0	3
	<b>N05</b>	335	56	0	0	0	6
	<b>N07</b>	526	58	0	0	0	9
	<b>N10</b>	685	62	1	0	1	11

Photometric performance is measured in compliance with IESNA LM-79-19. Due to rapid and continuous advances in LED technology, photometric information is subject to change without notice.

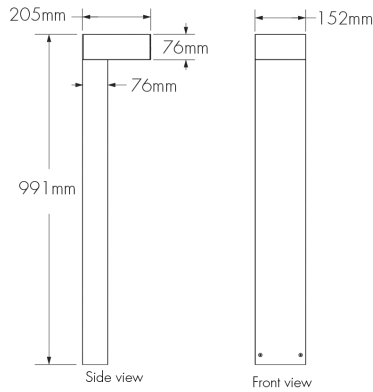


**Configuration Dimensions**

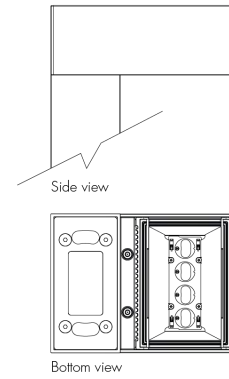
**TM1 - Single Head Bollard, 0.6 m**



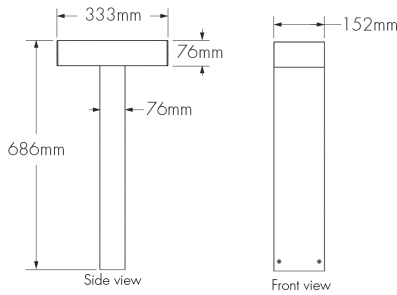
**TM1 - Single Head Bollard, 0.9 m**



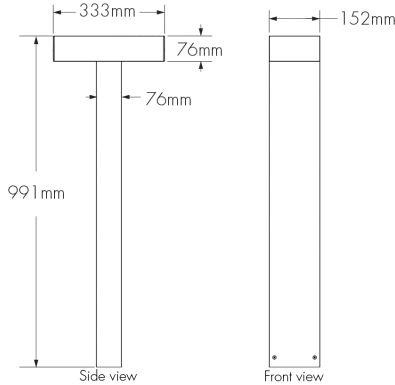
**TM1 - Single Luminaire Head**



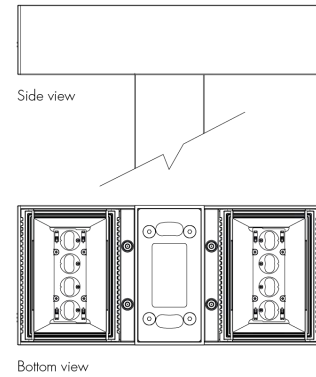
**TM2 - Dual Head Bollard, 0.6 m**



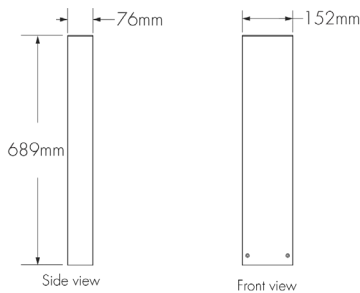
**TM2 - Dual Head Bollard, 0.9 m**



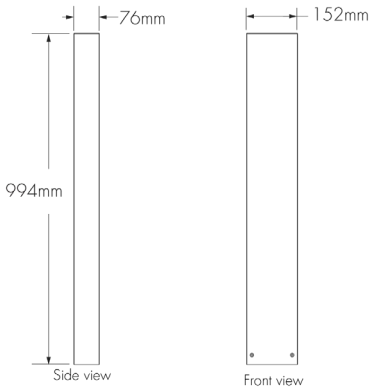
**TM2 - Dual Luminaire Head**



**UNLIT - Unlit Bollard 0.6 m**



**UNLIT - Unlit Bollard 0.9 m**



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www.lumenpulse.com www.lumenpulse.com/products/3774

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**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

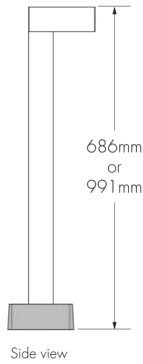
Fixture Type:

**LQ1 Series**

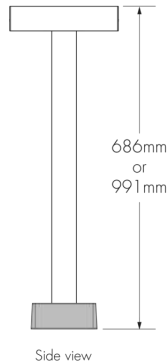
Page 4 of 10

**VRBO Option Dimensions**

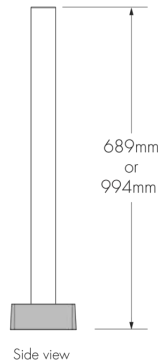
**TM1 - Single Head Bollard**



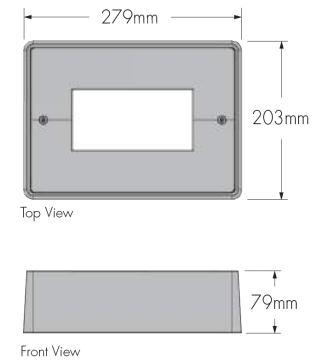
**TM2 - Dual Head Bollard**



**UNLIT - Unlit Bollard**

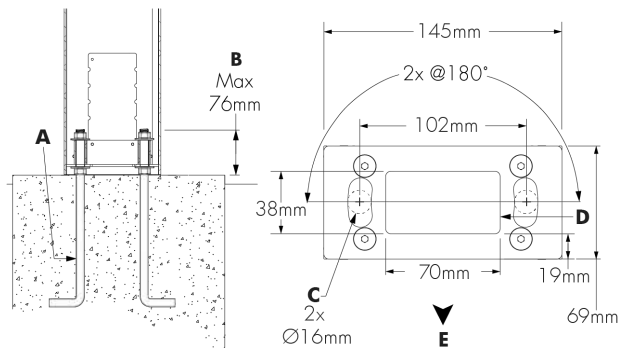


**Base Cover**



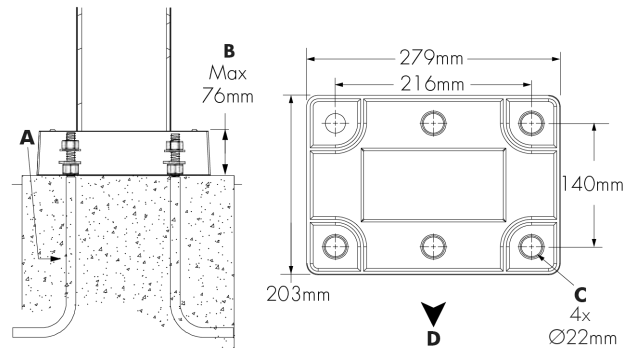
**Anchoring Details**

**Standard Anchoring**



- A** - (2x) Ø13 mm by 305 mm long anchor bolts with flats washers and nuts for each
- B** - Between 64 mm and 76 mm of the anchor bolts must be above ground for installation
- C** - Bolt circle
- D** - Hole for conduit (conduit by others)
- E** - Street side/Light side

**BLDB-VRBO Anchoring**

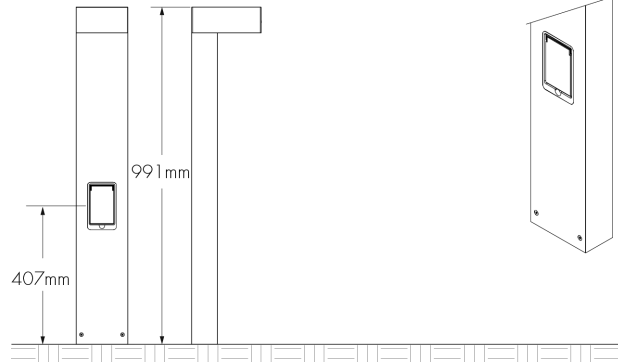


- A** - (4x) Ø19 mm by 660 mm long anchor bolts with flats washers and nuts for each
- B** - Between 64 mm and 76 mm of the anchor bolts must be above ground for installation
- C** - Bolt circle
- D** - Access door and street side

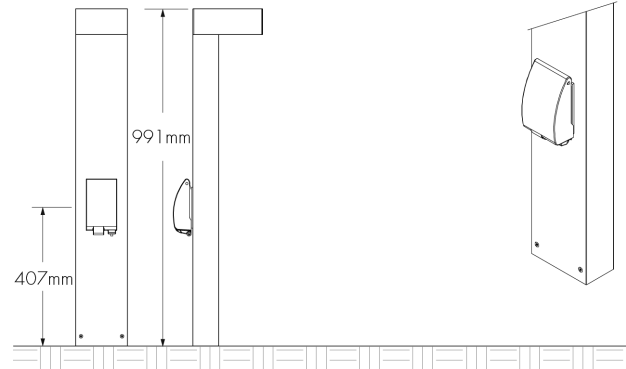


## Duplex Receptacle Installation Dimensions

**DRG - Ground Fault Duplex Receptacle**  
**USB - Duplex Receptacle With USB A and USB C**



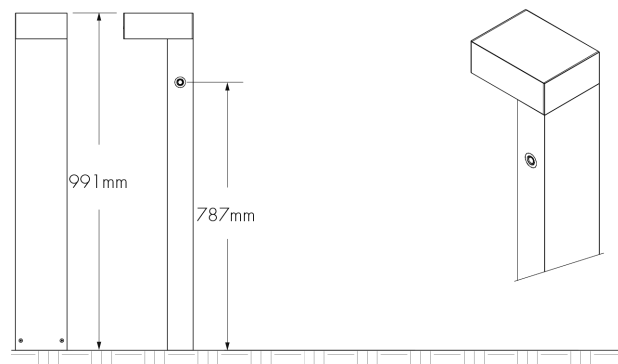
**DRG IU - Ground Fault Duplex Receptacle (While in Use)**  
**USB IU - Duplex Receptacle With USB A And USB C (While In Use)**



The duplex receptacle must be installed in accordance with applicable national and local electrical and construction codes by a person familiar with the construction and operation of the product and the hazards involved. Refer to national and local electrical codes before selecting a duplex receptacle to ensure all requirements are met.

## Photoelectric Cell Button Installation Dimensions

**PB - Photoelectric Cell Button Type**



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**ALULA Lighting Design**  
 155 Gordon Baker Road, Suite 200  
 Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LQ1 Series**

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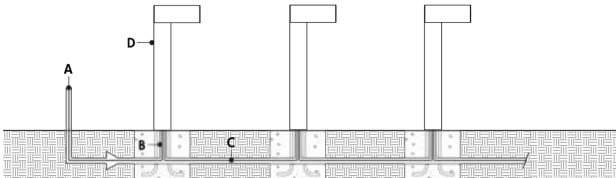


Typical Wiring Diagrams

Wiring Colour Code

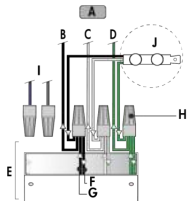
Color	Black	White	Green	Purple	Gray
Use	Line	Line/Neutral	Ground	0 -10V +	0 -10V -

On/Off Control (NO)



- A - Power input (120-480V)
- B - Conduit (by others)
- C - Power wiring (by others)
- D - Lumenblade Bollard

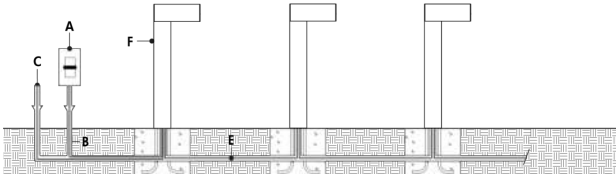
On/Off Control (NO) - Wiring Detail



- A - To fixture
- B - Line
- C - Line/Neutral
- D - Ground
- E - Conduit (by others)
- F - To next fixture
- G - Power input or from previous fixture
- H - Wire-nuts (by others)
- I - Not required
- J - Wiring for SP option

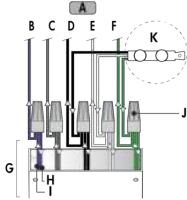
- Consult factory for specific applications and maximum fixture count/cable length recommendations.

0-10V Dimming (DIM)



- A - Dimmer (by others)
- B - Data wiring (by others)
- C - Power input (120-480V, wiring by others)
- D - Conduit (by others)
- E - Power and data wiring (by others)
- F - Lumenblade Bollard

0-10V Dimming (DIM) - Wiring Detail

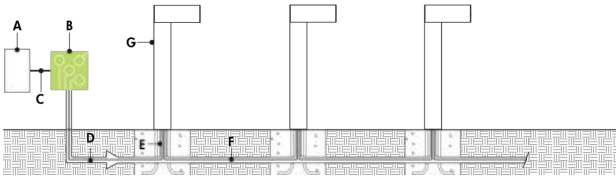


- A - To fixture
- B - 0-10V +
- C - 0-10V -
- D - Line
- E - Neutral
- F - Ground
- G - Conduit (by others)
- H - To next fixture
- I - Power input or from previous fixture
- J - Wire-nuts (by others)
- K - Wiring for SP option

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 0-10V mA ratings: passive dimmer (Current Sink): 3mA per fixture, active dimmer (Current Source): 0.5mA per fixture.
- 1% minimum dimming value.

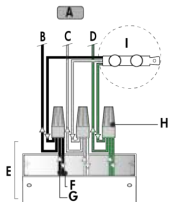


Lumentalk (LT)



- A - Dimmer/controller (order separately from Lumenpulse, or by others)
- B - Lumentranslator (LTL-010)
- C - Data wiring (by others)
- D - Power line (120-277V, wiring by others)
- E - Conduit (by others)
- F - Power wiring (by others)
- G - Lumenblade Bollard

Lumentalk (LT) - Wiring Detail



- A - To fixture
- B - Line
- C - Line/Neutral
- D - Ground
- E - Conduit (by others)
- F - To next fixture
- G - Power input or from previous fixture
- H - Wire-nuts (by others)
- I - Wiring for SP option

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID-LT. Consult factory for details.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system.
- No third party fixtures allowed on the same circuit.
- DRG or USB option must be on a separated circuit.



How to Order

Housing	Mounting	Voltage	Height	Lens <sup>(3)</sup>	Output (Nominal Lumens) <sup>(8)</sup>	Colour and Colour Temperature	Colour Rendering	Distributions	Optical Option	Finish	Control
BLDB Lumenblade Bollard	TM1 Single head	120 120 volts	2FT 0.6 m	CSL Clearsite Lens <sup>(4)</sup>	N02 200lm (4 LEDs) <sup>(4) (9)</sup> <sup>(10)</sup>	AMB Amber <sup>(4) (10)</sup> <sup>(11)</sup>	CRI 70 CRI 70+ <sup>(14)</sup>	2 Type II	LV Louvre <sup>(17) (18)</sup>	BK Black Sandtex®	DIM 0-10V Dimming <sup>(22)</sup>
	TM2 Dual head <sup>(11)</sup>	208 208 volts	3FT 0.9 m	FSL Frostsight Lens <sup>(9)</sup>	N03 300lm (4 LEDs)	22K 2200K <sup>(12)</sup>	CRI 80 CRI 80+ <sup>(15)</sup>	2BLS Type II Backlight Shield		BRZ Bronze Sandtex®	LT Lumentalk <sup>(23)</sup> <sup>(24)</sup>
	UNLIT Unlit bollard	240 240 volts		HFSL Half-Frosted Site Lens <sup>(4) (7)</sup>	N05 500lm (4 LEDs)	27K 2700K <sup>(13)</sup>	CRI 90 CRI 90+ <sup>(14)</sup>	3 Type III		SI Silver Sandtex®	
		277 277 volts			N07 700lm (4 LEDs)	30K 3000K		3BLS Type III Backlight Shield		BKTX Textured Black	
		347 347 volts <sup>(2)</sup>			N10 1000lm (4 LEDs)			4 Type IV		BRZTX Textured Bronze Non- Metallic	
		480 480 volts <sup>(2)</sup>						4BLS Type IV Backlight Shield		GRATX Textured Medium Grey	
								5 Type V		GRNTX Textured Green	
								5S Type V Square		WHITX Textured White	
										CC Custom Colour & Finish <sup>(19) (20)</sup> <sup>(21)</sup>	

Notes:

1. A ground fault duplex receptacle (DRG or DRG IU) and a duplex USB receptacle (USB or USB IU) cannot be combined with TM2 mounting.

2. Not available with LT control option.

3. Standard IK06 rating for glass lens. IK10 rated polycarbonate lens available, please consult factory.

4. Not available with type 5 distribution.

5. Available with type 3 and 5 distributions only.

6. Available with type 2, 3 and 4 distributions only.

7. Available for N03, N05, N07 and N10 outputs only.

8. Lumen output will vary according to the lens and distribution specified for the fixture. Please consult the photometric information section of the specification sheet for more details.

9. Available with AMB colour temperature only.

10. Not available for FSL and HFSL lens.

11. Available with N02 output only.

12. Available for CRI 80 only.

13. Available for CRI 80 and CRI 90 only.
14. Binning within a 3-step MacAdam ellipse

15. Binning within a 2-step MacAdam ellipse, with the exception of 2200K.

16. Binning within a 2-step MacAdam ellipse.

17. Available with CSL and HFSL lenses only.

18. Factory installed.

19. Specify RAL number followed by "TX" for textured finish (ex: RAL9007TX) or STX for Sandtex finish (ex: RAL9007STX). Textured or Sandtex finishes are recommended for the durability of all products. If a finish is not specified with the RAL number (ex: RAL9007), a glossy finish will be provided. Please consult factory for other RAL textures and glosses, or to match alternate colour charts. Final colour matching results may vary.

20. Setup charges apply for RAL colours. Consult factory for details.

21. Longer lead times can be expected for custom RAL colour finishes.

22. DIM control can be used as NO (On/Off control) if no data is required.

23. Not available with PB option.

24. When combined with 0.6 m height option, Lumentalk cannot be combined with a ground fault duplex receptacle (DRG or DRG IU) or a duplex USB receptacle (USB or USB IU).



How to Order

Option	Anchor Bolts Option	Head Option	Head Lens	Head Output	Head Colour and Colour Temperature	Head Colour Rendering	Head Distributions	Head Optical Option
<b>VRBO</b> Vibration Rated for Bridge and Overpass <sup>(25)</sup> <sup>(24)</sup> <b>CRC</b> Corrosion-resistant coating <sup>(27)</sup> <sup>(28)</sup> <b>SP</b> Surge Protector <b>PB</b> Photoelectric Cell Button Type <sup>(2)</sup> <sup>(29)</sup> <b>DRG</b> Ground Fault Duplex Receptacle <sup>(30)</sup> <b>DRG IU</b> Ground Fault Duplex Receptacle (while in use) <sup>(30)</sup> <b>USB</b> Duplex Receptacle with USB A and USB C <sup>(30)</sup> <b>USB IU</b> Duplex Receptacle with USB A and USB C in-use <sup>(30)</sup>	<b>AB</b> Anchor Bolts <sup>(31)</sup>	<b>BH</b> Bollard Head	<b>CSL</b> Clearsite Lens <sup>(4)</sup> <b>FSL</b> Frostsight Lens <sup>(5)</sup> <b>HFSL</b> Half-Frosted Site Lens <sup>(4)</sup> <sup>(7)</sup>	<b>N02</b> 200lm (4 LEDs) <sup>(4)</sup> <sup>(9)</sup> <sup>(10)</sup> <b>N03</b> 300lm (4 LEDs) <b>N05</b> 500lm (4 LEDs) <b>N07</b> 700lm (4 LEDs) <b>N10</b> 1000lm (4 LEDs)	<b>AMB</b> Amber <sup>(4)</sup> <sup>(10)</sup> <sup>(11)</sup> <b>22K</b> 2200K <sup>(12)</sup> <b>27K</b> 2700K <sup>(13)</sup> <b>30K</b> 3000K	<b>CRI 70</b> CRI 70+ <sup>(14)</sup> <b>CRI 80</b> CRI 80+ <sup>(15)</sup> <b>CRI 90</b> CRI 90+ <sup>(14)</sup>	<b>2</b> Type II <b>2BLS</b> Type II Backlight Shield <b>3</b> Type III <b>3BLS</b> Type III Backlight Shield <b>4</b> Type IV <b>4BLS</b> Type IV Backlight Shield <b>5</b> Type V <b>5S</b> Type V Square	<b>LV</b> Louvre <sup>(17)</sup>

Notes:

2. Not available with LT control option.

4. Not available with type 5 distribution.

5. Available with type 3 and 5 distributions only.

6. Available with Type 2, 3 and 4 distributions only.

7. Available for N03, N05, N07 and N10 outputs only.

9. Available with AMB colour temperature only.

10. Not available for FSL and HFSL lens.

11. Available with N02 output only.

12. Available for CRI 80 only.

13. Available for CRI 80 and CRI 90 only.

14. Binning within a 3-step MacAdam ellipse
15. Binning within a 2-step MacAdam ellipse, with the exception of 2200K.

16. Binning within a 2-step MacAdam ellipse.

17. Available with CSL and HFSL lenses only.

25. Vibration tested in accordance with ANSI I 36.31 2018 for bridge and overpass applications at 5Gv.

26. Specify only if a bridge or overpass application is required.

27. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.

28. Setup charges apply. Consult factory for details.

29. Not available for 480V voltage option.

30. A ground fault duplex receptacle (DRG or DRG IU) and a duplex USB receptacle (USB or USB IU) cannot be combined.

31. Anchor bolts provided with double nuts, washers and template. One template provided for every 5 luminaires.



Lighting Fixture Type Not Used



# CLEARFORM-LRTG

LED - Premium-Grade Recessed Static Shallow T-Bar Luminaire



Project:	Catalogue #:	Type:
Notes:		

## Product Description

Premium-grade, recessed, lay-in T-Bar luminaire featuring a single piece luminous lens. For use with indoor applications where high-efficiency, high-performance and ease of installation are required. This IC-rated luminaire's low-profile design is ideal for shallow or obstructed plenum applications.

## Features

- Ideal for shallow or obstructed plenum applications
- Enhanced, uniform lighting delivers a balanced amount of light to walls, cubicles, work surfaces and people
- Standard low voltage dimming (0-10v)
- 100% servicable from below (easy access to driver and LED modules)
- Available in 1x4, 2x2, 2x4, 30x30, 20x60, 750x750, and 500x1500 configurations
- No door frame for maximum luminous opening

## Applications

- Office Areas
- Retail Stores
- Classrooms
- Hospitals
- Nursing Homes

## Featured Options

- Emergency lighting battery pack
- Optional lenses, see ordering key

## Optical System

Frosted single-piece Polycarbonate diffuser is standard.

## Mounting

This luminaire has been specifically designed for T-Bar applications. Holes provided for chain-mounting support to building structure. Integral earthquake clips for additional support.

## Construction

Die-formed and riveted, heavy-gauge steel housing assembly. Precision-formed steel reflector. Wiring access plate and knockouts are provided on back of housing.

## Finish

White, polyester powder painted housing.

## Electrical

Long life LEDs coupled with high efficiency drivers provide quality illumination. Rated to deliver L80 performance > 50,000 hours.

## Warranty

5 year limited warranty. For complete warranty terms visit:  
[https://www.viscor.com/en/docs/VISCOR\\_LED\\_WARRANTY.PDF](https://www.viscor.com/en/docs/VISCOR_LED_WARRANTY.PDF)

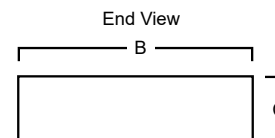
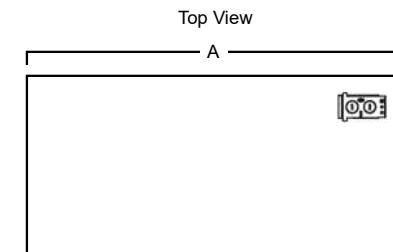
## Approvals

Approved to CSA/UL standards. UL listed for insulated ceilings.  
Tested in accordance to IESNA LM-79.  
Suitable for damp locations.  
DesignLights Consortium® Qualified.

## Approvals



## Dimensions



	A	B	C
1x4	47 3/4"	11 3/4"	3 1/2"
2x2	23 3/4"	23 3/4"	3 1/2"
2x4	47 3/4"	23 3/4"	3 1/2"
20x60	59 3/4"	19 3/4"	3 1/2"
30x30	29 3/4"	29 3/4"	3 1/2"
750x750	744mm	744mm	90mm
500x1500	494mm	1494mm	90mm

Consult installation guide for exact dimensions.

All configurations may not be DLC qualified. Check [www.designlights.org/QPL](http://www.designlights.org/QPL) for qualified configurations.



## ALULA Lighting Design

155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LR2**

# CLEARFORM-LRTG

LED - Premium-Grade Recessed Static Shallow T-Bar Luminaire



Project:	Catalogue #:	Type:
Notes:		

## Order Key

EXAMPLE: LRTG2x4-LED840K074LUNV-P94

<b>LRT</b>	<b>G</b>		<b>-</b>	<b>LED</b>				<b>-</b>	<b>P94</b>	
<b>Type</b>	<b>Size (Width x Length)</b>			<b>CRI</b>		<b>CCT</b>		<b>Voltage</b>		<b>Options</b>
	1x4 2x2 2x4 30x30 750x750 20x60 † 500x1500 †			8 - (80+) 9 - (90+) †		30K - 3000K 35K - 3500K 40K - 4000K 50K - 5000K 2765KT - 2700-6500 K* (Tunable White)		UNV - 120-277V 347 - 347V		<b>Driver Options</b> B15 Bi-Level Step Dimming (50/100) (Not available for 347V) B39 Emergency Lighting Battery Pack - LED
								<b>Lens</b> P94 - Single Piece Polycarbonate		<b>Air Handling Options</b> A1 Air Supply/Return Slots (Not available for 1x4)
								<b>Nominal Lumens</b>		<b>Housing Construction Options</b> C45 Housing for 9/16-inch T-Bar C32 Chicago Plenum
								1x4 040L - 4000 037L - 3700 050L - 5000		<b>Lens Options</b> C24 Shield Rectangular Perforated Matte White with Decorative Lens Rails C26 Shield Perforated Hole Pattern Matte White with Decorative Lens Rails C70 Decorative Lens Rails
								2x2 040L - 4000 050L - 5000 074L - 7400 092L - 9200 100L - 10000		<b>Packaging Options</b> K0 Bulk Pack/Pallet Packed and/or Wrapped
								30x30 040L - 4000		<b>Wiring Options</b> V09 Flexible Whip (standard 6Ft. x 3-18 ga.) V80 Red LED array - One row
								20x60 050L - 5000		<b>Wireless Controls Options (V1)</b> To view the controls guide <a href="#">Click Here</a> .

† Includes filler plates. Consult factory for configuration details.

LED Performance Data				
Size	Nominal Lumens	Delivered Lumens	Watts	Lumens per Watt
1x4	4000	4255	29	145
2x2	3700	3805	28	137
	5000	5068	39	131
2x4	4000	4255	29	145
	5000	5012	35	143
	7400	7447	54	137
	9200	9236	69	133
	10000	10013	76.2	131.4
20x60	5000	5012	35	143
30x30	4000	4255	29	145
750x750	4000	4255	29	145
500x1500	5000	5012	35	143

† 90+ CRI reduces lumen output by 20%, not available with 5000K  
\*When Selecting 2765KT, if a tunable white-compatible control is not selected the luminaire will come standard with two sets of 0-10V wires for dimming and color tuning. For compatible control options please consult factory.

Other options may be available, consult factory. Specifications and data subject to change without notice.

Flange Kits (Ordered Separately)	
Size (Width x Length)	Item No.
1x4	KIT00136
2x2	KIT00137
2x4	KIT00138



# CLEARFORM-LRTG

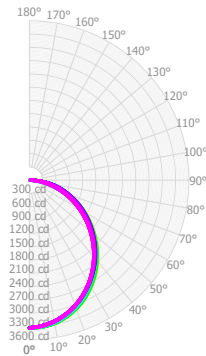
LED - Premium-Grade Recessed Static Shallow T-Bar Luminaire



Project:	Catalogue #:	Type:
Notes:		

## Photometrics

IES File: **LRTG2X4-LED840K092LUNV-P94**  
 Lumens: **9247**  
 Wattage: **79**  
 Efficacy: **117**



### Zonal Lumen Summary

Zone	Lumens	%Fixture
0.0° - 30.0°	2542	27.5%
0.0° - 40.0°	4123	44.6%
0.0° - 60.0°	7181	77.7%
0.0° - 90.0°	9247	100.0%
0.0° - 110.0°	9247	100.0%
0.0° - 130.0°	9247	100.0%
0.0° - 150.0°	9247	100.0%
0.0° - 170.0°	9247	100.0%
0.0° - 180.0°	9247	100.0%

### Coefficients of Utilization

pc	80%			70%			50%		
	70%	50%	30%	70%	50%	30%	70%	50%	30%
0	119	119	119	116	116	116	111	111	111
1	108	103	99	106	101	97	100	97	93
2	98	90	83	96	88	82	91	84	79
3	90	79	71	87	77	70	83	74	68
4	82	70	61	80	69	60	75	66	59
5	76	63	53	73	61	53	69	59	52
6	70	56	47	68	55	47	64	54	46
7	65	51	42	63	50	42	60	49	41
8	60	47	38	59	46	38	56	45	37
9	56	43	35	55	42	34	52	41	34
10	53	40	32	52	39	31	49	38	31

Effective Floor Cavity Reflectance: 20%

### Average Luminance Table (cd/m2)

#### CP Summary

	0.00°	45.00°	90.00°
0.00°	4589	4589	4589
45.00°	3976	4113	4202
55.00°	3726	3924	4045
65.00°	3434	3731	3898
75.00°	3037	3561	3819
85.00°	1860	3982	4533





# VIA 3 SURFACE

DIRECT

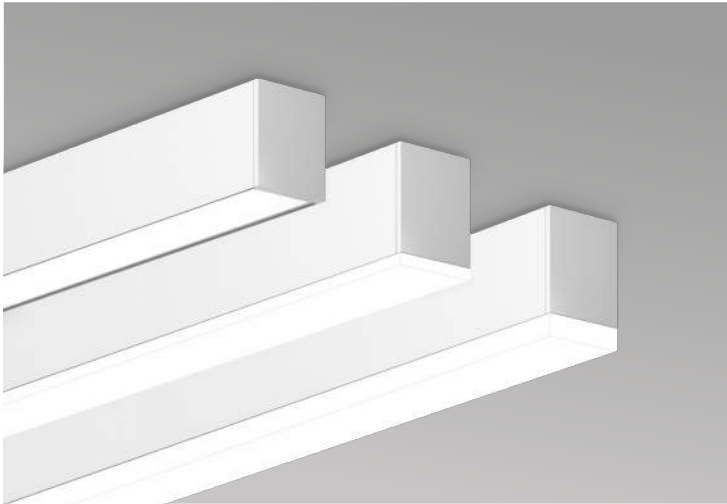
STATIC WHITE, BIOS ST/DY



Project: \_\_\_\_\_

Type: \_\_\_\_\_

## LUMENWERX



Lens Positions <sup>1</sup>

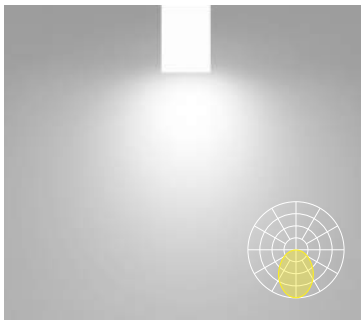
### DESCRIPTION

Our elegant, flexible Via family is composed of linear, pendant, surface, recessed, and wall mounted luminaires. Each lighting fixture can be installed as a discrete luminaire or in continuous runs or patterns. Via 3 Surface is offered with asymmetric, widespread, wall wash, low-glare, or grazing reflector optics.

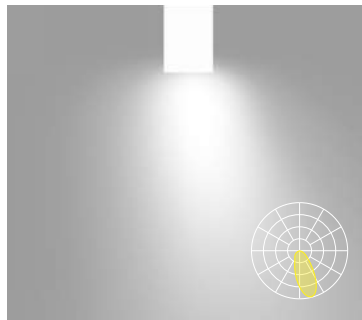
Up to 131 lm/W performance



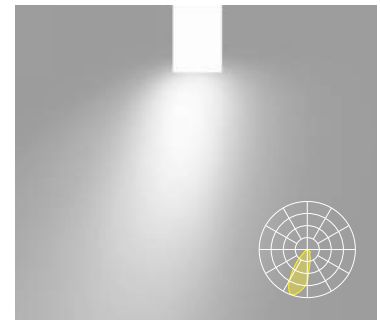
**SENSORS**  
For latest  
information  
on sensors,  
click [here](#).



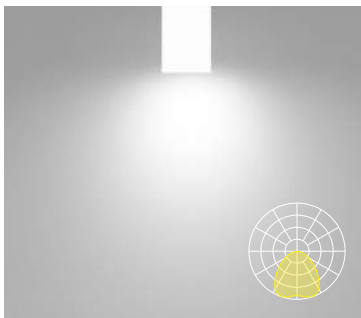
HLO  
High-Efficiency Lambertian Optic



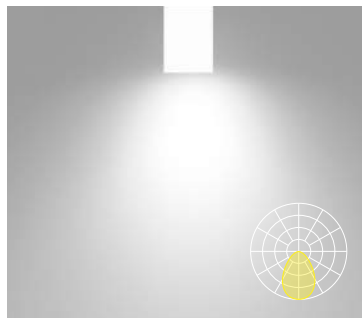
ARO2  
Asymmetric Refractive Optic



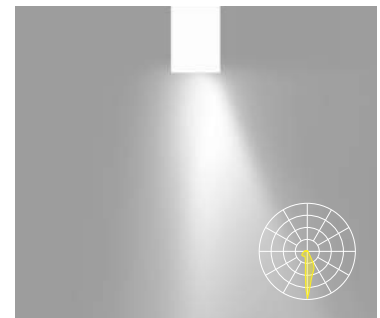
WRO2  
Wall Wash Refractive Optic



WDO  
Widespread Direct Optic



LGO  
Low-Glare Optic



GRO  
Grazing Reflector Optic

<sup>1</sup> Drop lens positions available with HLO only.

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VIA3-SURFACE-SPEC-REV1 August 25, 2022



**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LS1 Series**

Page 1 of 6

# VIA 3 SURFACE

LUMENWERX

DIRECT  
STATIC WHITE, BIOS ST/DY

Project: \_\_\_\_\_  
Type: \_\_\_\_\_

## Order Guide

LUMINAIRE ID	DISTRIBUTION	OPTIC	LENS POSITION	LIGHT SOURCE <sup>3</sup>	CRI
<b>VIA3S</b>	<b>D</b>				
<b>VIA3S</b> - Via 3" Surface	<b>D</b> - Direct	<b>HLO</b> - High-Efficiency Lambertian Optic <b>ARO2</b> - Asymmetric Refractive Optic <b>WRO2</b> - Wall Wash Refractive Optic <b>WDO</b> - Widespread Direct Optic <b>LGO</b> - Low-Glare Optic <b>GRO</b> - Grazing Reflector Optic	<b>FH</b> <sup>1</sup> - Flush <b>0.5D</b> <sup>1</sup> - 0.5" drop <b>1.0D</b> <sup>1</sup> - 1.0" drop <b>NA</b> <sup>2</sup> - Not applicable  <sup>1</sup> Available with HLO only. <sup>2</sup> Specify NA for all optics except for HLO.	<b>SW</b> - Static white <b>BIOSST</b> <sup>4</sup> - Static biologically-optimized lighting <b>BIOSDY</b> <sup>4</sup> - Dynamic biologically-optimized lighting  <sup>3</sup> Chromawerx Sola, Duo and Quadro also available. Consult other spec sheets. <sup>4</sup> Only available with low and medium lumen packages.	<b>80</b> - 80 CRI <b>90</b> <sup>5</sup> - 90 CRI  <sup>5</sup> Not available with BIOS.

LUMEN PACKAGE (lm/ft)	COLOR TEMP.	LUMINAIRE LENGTH	VOLTAGE	DRIVER <sup>10</sup>																																										
<table border="1"> <thead> <tr> <th></th> <th>Hypo <sup>6</sup></th> <th>Low</th> <th>Med</th> <th>High</th> <th>Hyper <sup>7</sup></th> </tr> </thead> <tbody> <tr> <td>HLO</td> <td>350</td> <td>500</td> <td>750</td> <td>1000</td> <td>1200</td> </tr> <tr> <td>ARO2</td> <td>350</td> <td>500</td> <td>750</td> <td>1000</td> <td>1200</td> </tr> <tr> <td>WRO2</td> <td>350</td> <td>500</td> <td>750</td> <td>1000</td> <td>1200</td> </tr> <tr> <td>WDO</td> <td>350</td> <td>500</td> <td>750</td> <td>1000</td> <td>1200</td> </tr> <tr> <td>LGO</td> <td>350</td> <td>500</td> <td>750</td> <td>1000</td> <td>1200</td> </tr> <tr> <td>GRO</td> <td>350</td> <td>500</td> <td>750</td> <td>1000</td> <td>x</td> </tr> </tbody> </table> <sup>6</sup> Minimum 3' fixture. <sup>7</sup> Fixture will be very bright. Use in suitable applications.		Hypo <sup>6</sup>	Low	Med	High	Hyper <sup>7</sup>	HLO	350	500	750	1000	1200	ARO2	350	500	750	1000	1200	WRO2	350	500	750	1000	1200	WDO	350	500	750	1000	1200	LGO	350	500	750	1000	1200	GRO	350	500	750	1000	x	<b>27</b> <sup>8</sup> - 2700K <b>30</b> - 3000K <b>35</b> - 3500K <b>40</b> - 4000K  <sup>8</sup> Not available with BIOS.	<b>#FT#IN</b> - Specify nominal length (#) in 1' and/or 1" increments  <b>Standard nominal lengths:</b> Single units: 2' - 12' Continuous runs: lengths over 12'	<b>120</b> - 120V <b>277</b> - 277V <b>UNV</b> - 120V-277V <b>347</b> <sup>9</sup> - 347V  <sup>9</sup> Available with D1 only.	<b>D1</b> - 1% 0-10V <b>DA</b> <sup>11</sup> - DALI <b>LTEA2W</b> <sup>12</sup> - Lutron 1% - 2 wire FP 120V <b>LDE1</b> <sup>11</sup> - Lutron Hi-Lume 1% Eco <b>ELD1</b> - eldoLED 1% ECODrive 0-10V <b>ELDO</b> - eldoLED 0.1% SOLOdrive 0-10V  <sup>10</sup> PoE (Power-over-Ethernet) compatible. Consult factory for details. <sup>11</sup> On-site commissioning is required. <sup>12</sup> Available with 120V only.
	Hypo <sup>6</sup>	Low	Med	High	Hyper <sup>7</sup>																																									
HLO	350	500	750	1000	1200																																									
ARO2	350	500	750	1000	1200																																									
WRO2	350	500	750	1000	1200																																									
WDO	350	500	750	1000	1200																																									
LGO	350	500	750	1000	1200																																									
GRO	350	500	750	1000	x																																									

ELECTRICAL	ELECTRICAL SECTIONS (optional) <sup>16, 17</sup>	MOUNTING	FINISH
<b>1C</b> - 1 circuit <b>#MC</b> <sup>13</sup> - Multi circuit <b>EC</b> - Emergency-powered fixture <b>NL</b> - Night light fixture <b>DL</b> - Daylight fixture <b>GTD</b> <sup>14, 15</sup> - Generator transfer device fixture  <sup>13</sup> Specify total number of circuits (#), including any required for electrical section or COB options. Provide drawing or layout specifications. Minimum 4' section per circuit. <sup>14</sup> Minimum 4' fixture. <sup>15</sup> Not available with 347V.	<b>#EC##</b> <sup>18</sup> - Emergency-powered section <b>#NL##</b> <sup>18</sup> - Night light section <b>#DL##</b> <sup>18</sup> - Daylight section <b>#GTD##</b> <sup>18, 19, 20</sup> - Generator transfer device section <b>#EMB</b> <sup>20, 21</sup> - Emergency battery <b>NA</b> - None  <sup>16</sup> Specify with multi circuit (#MC) electrical option only. <sup>17</sup> Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. <sup>18</sup> Specify quantity (#), and section length in inches (##). <sup>19</sup> Minimum 4' section. <sup>20</sup> Not available with 347V. <sup>21</sup> Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section.	<b>DRC</b> - Drywall ceiling <b>GRD</b> - Grid ceiling	<b>W</b> - Matte white <b>AL</b> - Aluminum <b>B</b> - Matte black <b>CF#</b> - Custom finish, specify RAL#

CONTROL <sup>22</sup>	OPTIONS	LED DOWNLIGHT <sup>28</sup>	COB CRI	COB LUMEN PACK.	COB COLOR TEMP.
<b>STANDALONE CONTROLS</b> <sup>23, 24</sup> Specify the quantity (#) of sensors per fixture. <b>#OMS</b> <sup>25</sup> - Onboard Occupancy <b>#OMSX</b> <sup>26</sup> - Onboard Occupancy with bi-level dimming <b>#ODS</b> - Onboard Daylight <b>#OCS</b> - Onboard Occupancy & Daylight  <b>NA</b> - None  <sup>22</sup> Standalone and connected control options cannot be combined. <sup>23</sup> Available with D1 driver and 1 circuit options only. <sup>24</sup> Minimum 4' per zone. Provide control zone length. <sup>25</sup> Fixture turns off when no occupancy. <sup>26</sup> Fixture dims to specified light level % (X). <sup>27</sup> Consult factory for connected controls.	<b>CONNECTED CONTROLS</b> <sup>27</sup> <b>LU</b> - Lutron <b>EN</b> - Enlighted <b>ENC</b> - Encelium <b>WL</b> - Cooper Wavelinx <b>AN</b> - Acuity nLight <b>CA</b> - Casambi <b>LG</b> - Legrand  <b>FUI20</b> - Fuse 120V <b>FU277</b> - Fuse 277V <b>NA</b> - None	<b>#COB20</b> - COB 20° <b>#COB30</b> - COB 30° <b>#COB40</b> - COB 40°  <sup>28</sup> Minimum 4' fixture and minimum 2' section per COB. Consult factory for other configurations.	<b>80</b> - 80 CRI <b>90</b> - 90 CRI <b>97</b> - 97 CRI	<b>600</b> - 600 lm <b>1200</b> - 1200 lm <b>1800</b> - 1800 lm	<b>27</b> - 2700K <b>30</b> - 3000K <b>35</b> - 3500K <b>40</b> - 4000K

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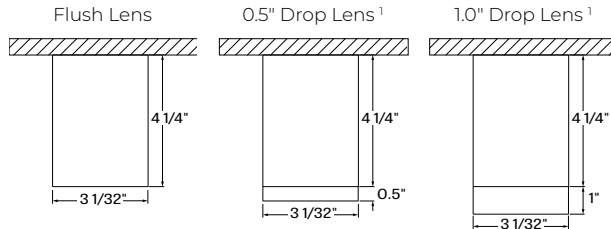


# VIA 3 SURFACE

LUMENWERX

DIRECT  
STATIC WHITE, BIOS ST/DY

## Dimensions



<sup>1</sup> Drop lens positions available with HLO only.

## Photometrics

Delivered lumens at 35K at 80 CRI for all optics.

HLO (Flush Lens)	LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW	ARO2	LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
	350	1400	11.2	125		350	1400	12.1	116
	500	2000	16.2	123		500	2000	17.7	113
	750	3000	25.1	119		750	3000	27.9	107
	1000	4000	34.6	116		1000	4000	39.0	103
	1200	4800	42.5	113		1200	4800	48.3	99

WRO2	LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW	WDO	LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
	350	1400	12.1	116		350	1400	11.8	118
	500	2000	17.8	112		500	2000	17.2	116
	750	3000	28.0	107		750	3000	26.6	113
	1000	4000	39.1	102		1000	4000	36.6	109
	1200	4800	48.5	99		1200	4800	45.1	106

LGO	LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW	GRO	LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
	350	1400	13.0	108		350	1400	13	108
	500	2000	18.9	106		500	2000	19.2	104
	750	3000	29.4	102		750	3000	30.4	99
	1000	4000	40.6	98		1000	4000	42.3	95
	1200	4800	50.0	96					

### MULTIPLIER TABLES

Use these tables to get results for different color temperatures, CRI, and drop lenses.

#### Multiplier - CCT/CRI

CCT (K)	WATTS		LPW	
	CRI 80	CRI 90	CRI 80	CRI 90
2700	1.05	1.26	0.95	0.79
3000	1.01	1.23	0.99	0.81
3500	1.00	1.20	1.00	0.84
4000	1.00	1.17	1.00	0.85

#### Multiplier - Drop Lens

DIRECT LENS	WATTS	LPW
Flush Lens	1.00	1.00
Drop Lens 0.5"	0.98	1.02
Drop Lens 1.0"	0.96	1.04

### COB

Use these tables to get results for different color temperatures for all COB photometric tables.

#### COB Multiplier - CCT

CCT (K)	MULTIPLIER
2700	1.09
3000	1.03
3500	1.00
4000	0.98

#### COB Wattage

COB ANGLE	CRI 80						CRI 90					
	20	30	40	20	30	40	20	30	40	20	30	40
Lumen	600	1200	1800	600	1200	1800	600	1200	1800	600	1200	1800
Wattage	5.8	11.7	18.1	6.0	11.9	18.3	6.4	12.6	19.4	7.0	14.1	22.3

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# VIA 3 SURFACE

DIRECT

STATIC WHITE, BIOS ST/DY

## LUMENWERX

## Technical Specifications

### OPTICS

#### High-Efficiency Lambertian Optic (HLO)

The High-Efficiency Lambertian Optic (HLO) uses matte white reflectors to distribute LED output across 0.075" acrylic shielding, providing up to 88% transmission and good obscuration. Available as a flush lens or as a drop lens, the HLO has a spacing criterion of 1.10.

#### Asymmetric Refractive Optic (ARO2)

The Asymmetric Refractive Optic (ARO2) uses a sophisticated reflector combined with a matte beam-shaping film to create a smooth, effective downward light component without shadows or hot spots. It provides directional Gaussian light distribution with peak intensity at 20° above nadir and a 55° Full Width at Half Maximum (FWHM) beam angle. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

#### Wall Wash Refractive Optic (WRO2)

The Wall Wash Refractive Optic (WRO2) delivers smooth vertical illumination with a gentle gradient and soft visual cut-off. Its exacting configuration creates a strong downward light component without shadows or hot spots and provides light distribution with peak intensity at 21° above nadir. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

#### Widespread Direct Optic (WDO)

The Widespread Direct Optic (WDO) is designed to distribute light far and wide. As such, it has an excellent luminous efficacy, a light span that is 40% farther than that of our traditional HLO, and it maximizes spacing distance while still creating a sense of uniformity. The lens snaps into place and utilizes nano prismatic optics to mask the diodes that are actually emitting the light.

#### Low-Glare Optic (LGO)

The Low-Glare Optic (LGO) is designed to cut off high-angled light and control glare. The carefully crafted lens refracts light downward through its center from which it then disperses into a wide conical distribution that negates any illumination at about 40°. The LGO provides the visual comfort of a louver in a smooth acrylic lens.

#### Grazing Reflector Optic (GRO)

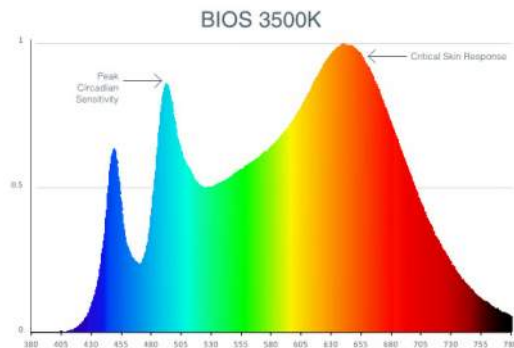
The Grazing Reflector Optic (GRO) is oriented to project light with maximum luminous intensity at 5° from nadir. This provides a tight beam to highlight and accentuate a wall with subtle vertical illumination.

### LIGHT SOURCE

Custom linear array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K and 4000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operate at reduced drive current to optimize efficacy and lumen maintenance. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.



BIOS SkyBlue™ Technology is designed to provide the specific circadian stimulus to improve overall sleep quality, recovery during the night, and overall feelings of well-being. The non-visual light signals that stimulate our circadian system have peak intensity in the "sky blue" region. As the diagram below illustrates, BIOS SkyBlue technology shifts the peak LED spectral intensity (490 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.



### LUMINAIRE LENGTH

Via 3 is available in standard lengths of 2' to 12'. Continuous runs are available for run lengths over 12'. Exact run length must be noted in the product code. The minimum length is 2', and can be ordered in 1' and/or 1" increments. All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.



# VIA 3 SURFACE

# LUMENWERX

DIRECT

STATIC WHITE, BIOS ST/DY

## ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% (specify 2-wire, or Ecosystem Dim-to-Off), eldoLED 1% ECODrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

## PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, Duo (tunable white), Quadro (RGBW) emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

## ELECTRICAL SECTION OPTIONS

Electrical section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional electrical sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

## Electrical sections

Options include emergency-powered (#EC##), night light (#NL##), daylight (#DL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in inches (##).

Example 1: A 32' Direct fixture with two 8' emergency-powered sections on a second circuit.

Code: 2MC-2EC96

Example 2: A 24' Direct fixture with one 4' generator transfer device section.

Code: 1MC-1GTD48

## Battery

Each emergency battery (#EMB) powers a 4' section. All batteries will be on the same circuit. Specify the number of batteries (#) required.

Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours.

## MOUNTING OPTIONS

Fixtures can be mounted directly to T-Bar, drywall and hard surface ceilings, hardware supplied by others. Long runs require a minimum distance of 6" from the vertical wall.

## FINISH

**Interior** - 95%, reflective matte powder coated white paint

**Exterior** - Matte white, matte black, or aluminum powder coating. Custom finishes are also available.

## CONTROLS

Lumenwerx offers several options for integrating occupancy and daylight harvesting controls in our luminaires.

For latest information on sensors, click [here](#).



## STANDALONE CONTROLS

An integrated standalone sensor controls the luminaire in which it is installed. Depending on the length, more than one sensor may be necessary and may control the entire luminaire, or just a section of it. These controls operate independently. Unless otherwise agreed, sensor location, blank size, and functionality of the sensor within the luminaire are selected by Lumenwerx. See client drawings for details.

Three types are available:

**OMS:** An integral Passive InfraRed (PIR) sensor turns luminaires on and off automatically with field-adjustable time out period. No wall control is used. Coverage pattern for large motion has a 12' diameter with the sensor mounted 8' above the floor; for small motion, the pattern has an 8' diameter. Typically, one sensor is required for every 10' of a continuous luminaire run.

**ODS:** An integral, daylight harvesting sensor with closed-loop operation dims the luminaire in which it is installed in order to compensate for available daylight. The sensor measures the combination of daylight and luminaire light reflected from horizontal surfaces below the luminaire. Initial onsite calibration is required via the use of provided remote control.

**OCS:** Both an occupancy and a daylight sensor are installed in the luminaire.



# VIA 3 SURFACE

DIRECT

STATIC WHITE, BIOS ST/DY

## LUMENWERX

### CONNECTED CONTROLS

With connected controls, sensors or nodes installed in the luminaire form part of a larger control system infrastructure from manufacturers such as: Lutron, Enlighted, Encelium, Cooper Wavelinx, Acuity nLight, Casambi, Legrand, and others. These connected controls allow for a scalable system providing features like occupancy and daylight control, manual control, scheduling and configuration of various zones and scenes. Energy reporting and system monitoring are also possible. Specific capabilities depend on the control system being used.

Lumenwerx installs the components (sensors, nodes, power packs, etc) which may be supplied to us by a third party, or procured directly by Lumenwerx, depending on the control system manufacturer.

Lumenwerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.

To indicate a Lumenwerx luminaire with connected controls, identify the specific onsite control system to be integrated into the luminaires using the ordering code. Due to the diversity of components, you must contact factory to assure complete compatibility with intended control system and to fully specify the luminaire.

Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for Lumenwerx to create shop drawings and submittals.

### COB

Fixtures with Chip On Board (COB) technology are able to provide a maximum output of 1800 lumens from a discrete 50mm aperture on 8 inch centers. Standard CRI is 80, for 90 and 97 CRI with elevated R9 values please consult factory. Standard 20°, 30° and 40° beam angles are available, as are custom angles with prior factory approval. All our Chip On Board products have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 50,000 hours.



Chip On Board (COB)

### CONSTRUCTION

**Housing** - Extruded aluminum, up to 90% recycled content

**Interior brackets** - Die-formed cold rolled sheet steel

**Joining system** - Die-cast zinc

**Reflectors** - Cold rolled steel die-formed, 95% reflective matte white painted

**Lens** - Acrylic or polycarbonate

**Drop lens** - Extruded with glued end caps

**End caps** - Die-cast aluminum

### WEIGHT

**Via 3 4ft** - 11.12 lbs - 5.05 kg

**Via 3 8ft** - 22.25 lbs - 10.1 kg

**Via 3 12ft** - 33.48 lbs - 15.2 kg

### CERTIFICATIONS

**ETL** - Rated for Indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0

**DLC** - Certain configurations have been DLC certified. Consult factory for details.

### WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9  
T (514) 225-4304 F (514) 931-4862  
[www.lumenwerx.com](http://www.lumenwerx.com)



Lumenwerx reserves the right to modify product specifications without notification.  
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VIA3-SURFACE-SPEC-REV1 August 25, 2022



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**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LS1 Series**

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# MIKA 4230

PROJECT PROJÉT
SPEC TYPE
NOTES



## OPTIONS



4230-8

4230-12

4230-16

## FAMILY FAMILLE

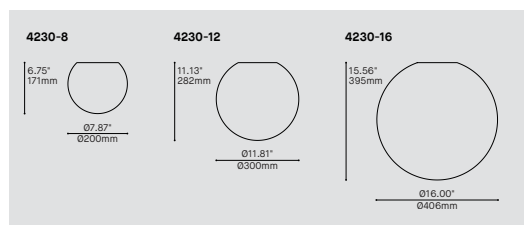
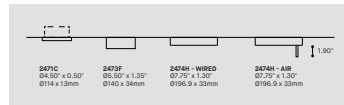


4428-16-RAP

4428-10-RAP

3230-12

## MOUNTING OPTIONS OPTIONS DE MONTAGE



[QUICKSHIP](#) [CLICK HERE / CLIQUEZ ICI](#)

## ORDERING SPECIFICATION SPÉCIFICATION DE COMMANDE

CODE

MODEL MODÈLE	
4230-8	MIKA 8"
4230-12	MIKA 12"
4230-16	MIKA 16"

LIGHT SOURCE SOURCE LUMINEUSE	LED
LED	REGULAR OUTPUT

COLOR TEMPERATURE TEMPÉRATURE DE COULEUR <sup>(A)</sup>	
27*	2700K
30	3000K
35	3500K
40	4000K

\* LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE

COLOR RENDERING INDEX (CRI) INDICE DE RENDU DE COULEUR (IRC)	
80	80+ CRI
90*	90+ CRI

\* LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE

VOLTAGE VOLTAGE	
120V	120 VOLT
277V	277 VOLT

CONTROL OPTION OPTION DE CONTRÔLE	
DV	0-10V DIMMING (120V-277V)
DP	PHASE DIMMING (120V ONLY)
NLTAIR2*	NLIGHT AIR CONTROL GEN 2
NLIGHT*	NLIGHT WIRED CONTROL

\* REQUIRES RC3 CANOPY. REFER TO NLIGHT GUIDE AND INSTALLATION SHEET FOR ALL REQUIREMENTS.  
\* EMERGENCY BATTERY NOT AVAILABLE WITH NLIGHT OPTIONS

EMERGENCY BATTERY BATTERIE D'URGENCE	
EM DRIVER BOX INCLUDED, INSTALLED REMOTELY. SEE EM GUIDE FOR DETAILS.	
EMB <sup>(1)</sup>	EMERGENCY BATTERY FOR REMOTE BOX

<sup>(1)</sup> 3981E ACCESSORY IS REQUIRED FOR THIS OPTION

CABLE CÂBLE	C
C	CLEAR CABLE, FIELD ADJUSTABLE

CABLE LENGTH LONGUEUR DE CÂBLE	
60	60" CABLE (STD LENGTH)
**	CUSTOM CABLE LENGTH (PLEASE SPECIFY)

FOR OVERALL LENGTH, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE

MOUNTING MONTAGE	
RC1	ROUND CANOPY / PAVILLON ROND
RC2*	FOR DIMMING LED: 1.35" CANOPY (2473F)
RC3	FOR DIMMING LED: 0.5" CANOPY (2471C)
	NLIGHT SCREWLESS CANOPY 07.75" x 1.30" (2474H)

\* 3983 ACCESSORY PROVIDED

CANOPY FINISH FINI PAVILLON	WHE
WHE	WHITE FINE TEXTURE

DIFFUSER FINISH FINI DIFFUSEUR	WH
WH	WHITE

ACCESSORY ACCESSOIRE	
3983*	DEEP JUNCTION BOX (PROVIDED FOR SCREWLESS 0.5" CANOPY 2471C)

\* JUNCTION BOX IS AVAILABLE FOR ADVANCE SHIPPING

EMERGENCY BATTERY ACCESSORY ACCESSOIRE BATTERIE D'URGENCE	
3981EA	ELECTRICAL BOX FOR EMB EMERGENCY BATTERY

## PRODUCT CHARACTERISTICS CARACTÉRISTIQUES DU PRODUIT



DESIGN:	Classic round globe with an evenly frosted shade available with 8", 12" and 16" diameters. Mika can be specified as a ceiling or wall mount and pendant.
INSTALLATION:	Suspension on clear power cable, easy to install and adjust on site. Two magnetic canopies with no visible fastener are available: standard (2473F) or slim (2471C) provided with a deep junction box (3983).
LIGHT SOURCE:	High performance LED module mounted on an extruded aluminum heatsink, Mika is offered with standard dimming options 0-10V (DV) or phase (DP). Emergency options available.
DIFFUSER:	Translucent white diffuser made of impact resistant rotomolded MDPE.
CERTIFIED:	c-CSA-us



## SPECIFICATION

Eureka Lighting © 2023

www.eurekalighting.com

V6.0 — 2023.05



**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LS2, LS3**

Page 1 of 13

# MIKA 4230

QUICKSHIP

PROJECT PROJET

SPEC TYPE

NOTES



## OPTIONS



4230-8

4230-12

4230-16

## FAMILY FAMILLE

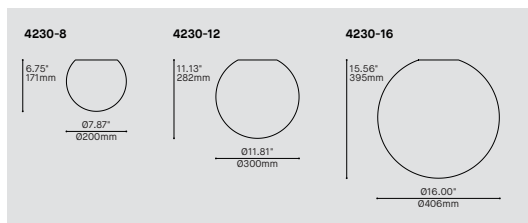
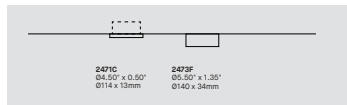


4428-16-RAP

4428-10-RAP

3230-12

## MOUNTING OPTIONS OPTIONS DE MONTAGE



## ORDERING SPECIFICATION SPÉCIFICATION DE COMMANDE

CODE

### QUICKSHIP

Q55 QUICKSHIP 5 DAYS - MAXIMUM 5 UNITS QUICKSHIP 5 JOURS - MAXIMUM 5 UNITÉS  
Q510 QUICKSHIP 10 DAYS - MAXIMUM 20 UNITS QUICKSHIP 10 JOURS - MAXIMUM 20 UNITÉS

### MODEL MODÈLE

4230-8 MIKA 8"  
4230-12 MIKA 12"  
4230-16 MIKA 16"

### LIGHT SOURCE SOURCE LUMINEUSE

LED REGULAR OUTPUT

LED

### COLOR TEMPERATURE TEMPÉRATURE DE COULEUR (M)

30 3000K  
35 3500K

### COLOR RENDERING INDEX (CRI) INDICE DE RENDU DE COULEUR (IRC)

80 80+ CRI

80

### VOLTAGE VOLTAGE

120V 120 VOLT  
277V 277 VOLT

### CONTROL OPTION OPTION DE CONTRÔLE

DV 0-10V DIMMING (120V-277V)  
DP PHASE DIMMING (120V ONLY)

### CABLE CÂBLE

C CLEAR CABLE, FIELD ADJUSTABLE

C

### CABLE LENGTH LONGUEUR DE CÂBLE

60 60" CABLE (STD LENGTH)  
\*\* CUSTOM CABLE LENGTH (PLEASE SPECIFY)  
FOR OVERALL LENGTH, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE

### MOUNTING MONTAGE

RC1 ROUND CANOPY / PAVILLON ROND  
FOR DIMMING LED: 1.35" CANOPY (2473F)  
RC2\* FOR DIMMING LED: 0.5" CANOPY (2471C)  
\* 3983 ACCESSORY PROVIDED

### CANOPY FINISH FINI PAVILLON

WHE WHITE FINE TEXTURE

WHE

### DIFFUSER FINISH FINI DIFFUSEUR

WH WHITE

WH

### ACCESSORY ACCESSOIRE

3983\* DEEP JUNCTION BOX (PROVIDED FOR SCREWLESS 0.5" CANOPY 2471C)  
\* JUNCTION BOX IS AVAILABLE FOR ADVANCE SHIPPING

ADDITIONAL OPTIONS AVAILABLE ON STANDARD SHIPPING / OPTIONS ADDITIONNELLES DISPONIBLES EN LIVRAISON STANDARD

## PRODUCT CHARACTERISTICS CARACTÉRISTIQUES DU PRODUIT



### DESIGN:

Classic round globe with an evenly frosted shade available with 8", 12" and 16" diameters. Mika can be specified as a ceiling or wall mount and pendant.

### INSTALLATION:

Suspension on clear power cable, easy to install and adjust on site. Two magnetic canopies with no visible fastener are available: standard (2473F) or slim (2471C) provided with a deep junction box (3983).

### LIGHT SOURCE:

High performance LED module mounted on an extruded aluminum heatsink, Mika is offered with standard dimming options 0-10V (DV) or phase (DP). Emergency options available.

### DIFFUSER:

Translucent white diffuser made of impact resistant rotomolded MDPE.

### CERTIFIED:

c-CSA-us



## SPECIFICATION

Eureka Lighting © 2023

www.eurekalighting.com

V2.0 — 2023.05



ALULA Lighting Design

155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

Project: Toronto Public Library - Pleasant View Branch

Date: Issued for Tender - April 1, 2025

Fixture Type:

LS2, LS3

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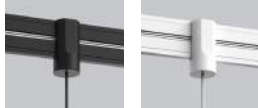


# MIKA 4230-8 FOR ARENA 82X0

PROJECT PROJET
SPEC TYPE
NOTES



## ADAPTER FINISH FINI DE L'ADAPTATEUR



BLKE WHE

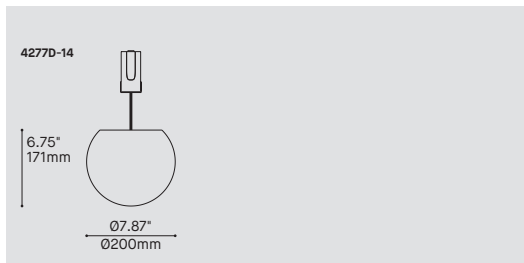
## FAMILY FAMILLE



ARENA - BEAM 8290 ARENA - GLOW 8291 ARENA - AIM 8292 ARENA - BALL 8295



ARENA - CONE 8294 ARENA - SLICE SQ 8296 ARENA - ACOUSTIC 8298



ORDERING SPECIFICATION SPÉCIFICATION DE COMMANDE		CODE
MODEL MODÈLE		4230-8
4230-8	MIKA 8"	
LIGHT SOURCE SOURCE LUMINEUSE		LEDA
LEDA*	SPECIAL OUTPUT FOR ARENA, 8W * TOTAL DC LOAD OF INSTALLED LIGHT SOURCES MUST NOT EXCEED 90W OR 180W DEPENDING ON THE SELECTED OPTION	
COLOR TEMPERATURE TEMPÉRATURE DE COULEUR		
27*	2700K	
30	3000K	
35	3500K	
40	4000K	
*LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE		
COLOR RENDERING INDEX INDICE DE RENDU DE COULEUR (IRC)		
80	80+ CRI	
90*	90+ CRI	
*LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE		
CABLE CÂBLE		C
C	BLACK OR WHITE CABLE, FIELD ADJUSTABLE	
CABLE LENGTH LONGUEUR DE CÂBLE		
24	24" CABLE (STD LENGTH)	
**	CUSTOM CABLE LENGTH (PLEASE SPECIFY)	
MOUNTING MONTAGE		
TAA	ARENA ADAPTOR FOR ARENA SQUARE & RECTANGLE 8220 & ARENA STRAIGHT 8210	
TAB	ARENA ADAPTOR FOR ARENA RING 8200	
ADAPTER FINISH FINI ADAPTATEUR		
BLKE	BLACK FINE TEXTURED	
WHE	WHITE FINE TEXTURED	
POWER CORD FINISH FINI ADAPTATEUR		
BLK	BLACK POWER CORD	
WH	WHITE POWER CORD	
DIFFUSER FINISH FINI DIFFUSEUR		WH
WH	WHITE	

## PRODUCT CHARACTERISTICS CARACTÉRISTIQUES DU PRODUIT



DESIGN:	Classic round globe with an evenly frosted shade of 8" diameter. Translucent white diffuser made of impact resistant rotomolded MDPE.
INSTALLATION:	Magnetically positioned anywhere on the ARENA for easy on-site installation or reconfiguration of the lighting environment. The adapter has a hook for extra safety.
LIGHT SOURCE:	High performance LED module mounted on an extruded aluminum heatsink.
ADAPTER:	Custom designed aluminum base offered in white or black architectural grade finish.
CERTIFIED:	c-CSA-us
CONCEPTION:	Globe rond classique composé d'un diffuseur uniformément givré de 8" de diamètres. Diffuseur blanc translucide en MDPE rotomoulé résistant aux chocs.
INSTALLATION:	Positionné magnétiquement n'importe où sur l'ARENA pour faciliter l'installation ou la reconfiguration de l'éclairage sur site. L'adaptateur est muni d'un crochet pour une double sécurité.
SOURCE LUMINEUSE:	Module DEL à haute intensité monté sur un radiateur en aluminium extrudé.
ADAPTATEUR:	Base en aluminium conçu sur mesure offert avec une finition noire ou blanche de grade architectural.
CERTIFIÉ:	c-CSA-us



## SPECIFICATION

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www.eurekalinghting.com

V1.1 — 2022.10



**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

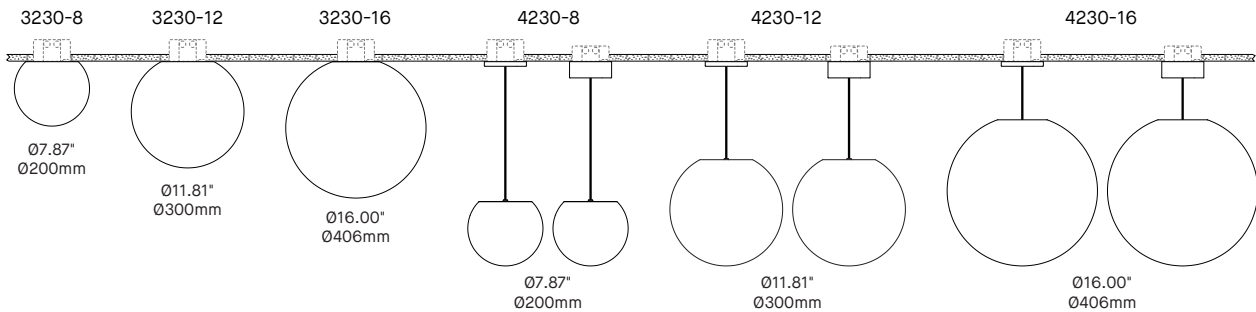
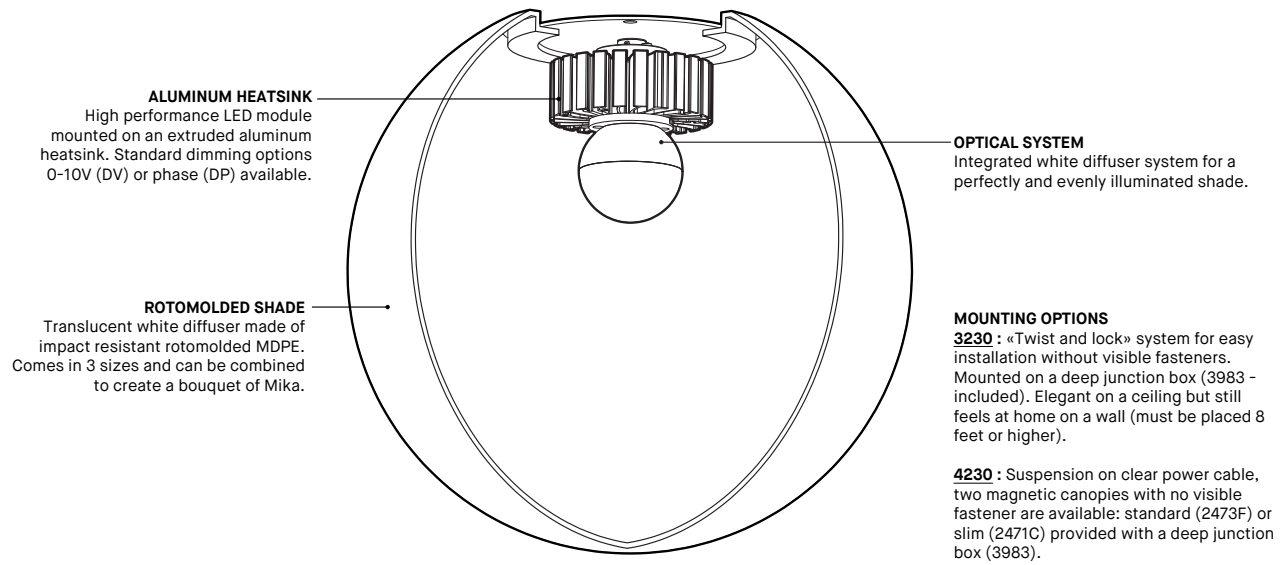
**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LS2, LS3**

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## MIKA - X230

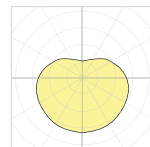


PRODUCT SPECIFICATION	3230-8	3230-12	3230-16	4230-8	4230-12	4230-16
<b>PERFORMANCE</b>						
SYSTEM WATTAGE	9.8 W	9.8 W	14.1 W	9.8 W	9.8 W	14.1 W
DELIVERED LUMENS (4000K)	987 LM	1062 LM	1523 LM	987 LM	1062 LM	1523 LM
EFFICACY	101 LM/W	108 LM/W	108 LM/W	101 LM/W	108 LM/W	108 LM/W
<b>OTHER INFORMATIONS</b>						
WEIGHT	2.2LBS / 1.0KG	2.3LBS / 1KG	3.5LBS / 1.6KG	2.2LBS / 1.0KG	2.3LBS / 1KG	3.5LBS / 1.6KG
L70 (LUMEN MAINTENANCE)	> 55 000 HRS	> 55 000 HRS	> 55 000 HRS	> 55 000 HRS	> 55 000 HRS	> 55 000 HRS
<b>WELL &amp; LEED STANDARD REQUIREMENTS</b>						
MAX. LUMINANCE 45°-90° OF NADIR	2208 CD/M²	892 CD/M²	659 CD/M²	2208 CD/M²	892 CD/M²	659 CD/M²
LIGHT QUALITY	R9 > 50 (90 CRI OPTION)					
FLICKERING TOLERANCE	LOW FLICKER, COMPLIANT TO CALIFORNIA TITLE 24					

### EFFICACY MULTIPLIERS

CRI	CCT	FACTOR
80+	4000K	1.00
80+	3500K	0.99
80+	3000K	0.97
80+	2700K	0.94
90+	4000K	0.89
90+	3500K	0.86
90+	3000K	0.84
90+	2700K	0.80

### LIGHT DISTRIBUTION



## TECHNICAL DATA

All right reserved and all designs protected by copyrights. Eureka Lighting reserves the right to change or modify specification without notification.

V1.0 — 2021.10



**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

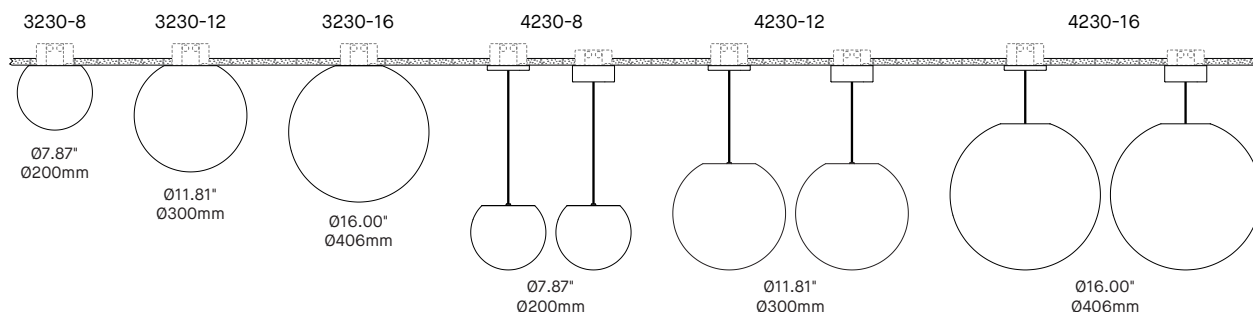
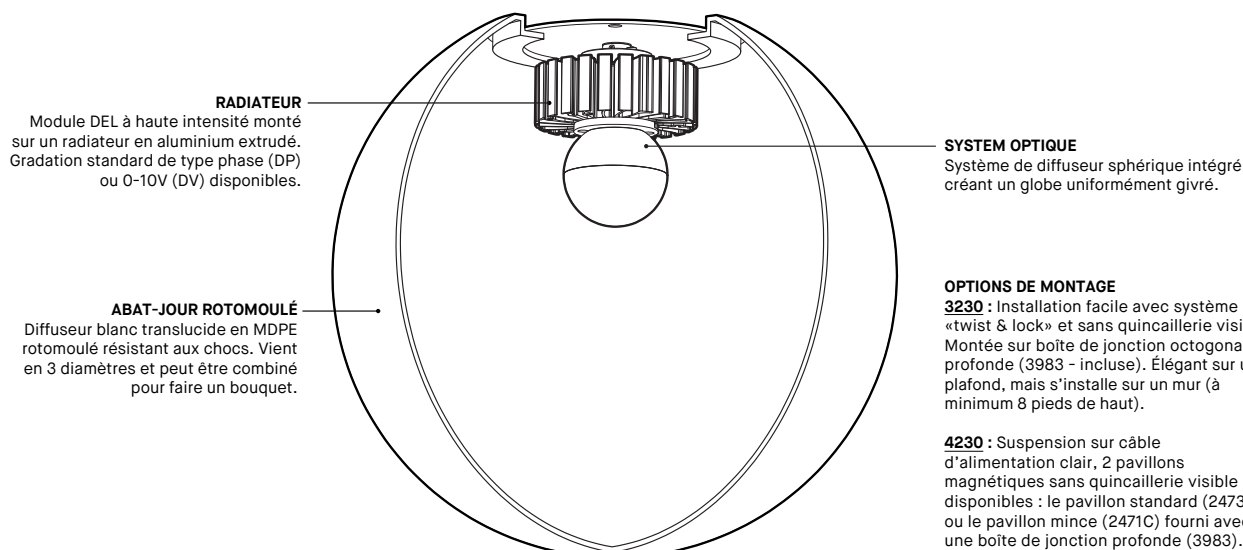
**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LS2, LS3**

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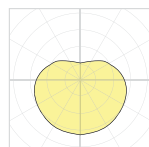


SPÉCIFICATION PRODUIT	3230-8	3230-12	3230-16	4230-8	4230-12	4230-16
<b>PERFORMANCE</b>						
PUISSANCE TOTALE	9.8 W	9.8 W	14.1 W	9.8 W	9.8 W	14.1 W
LUMENS RÉELS (4000K)	987 LM	1062 LM	1523 LM	987 LM	1062 LM	1523 LM
EFFICACITÉ	101 LM/W	108 LM/W	108 LM/W	101 LM/W	108 LM/W	108 LM/W
<b>AUTRES INFORMATIONS</b>						
POIDS	2.2LBS / 1.0KG	2.3LBS / 1KG	3.5LBS / 1.6KG	2.2LBS / 1.0KG	2.3LBS / 1KG	3.5LBS / 1.6KG
L70 (MAINTENANCE DE LA LUMIÈRE)	> 55 000 H	> 55 000 H	> 55 000 H	> 55 000 H	> 55 000 H	> 55 000 H
<b>CRITÈRES DE CERTIFICATION WELL &amp; LEED</b>						
MAX. LUMINANCE 45°-90° NADIR	2208 CD/M²	892 CD/M²	659 CD/M²	2208 CD/M²	892 CD/M²	659 CD/M²
QUALITÉ DE LA LUMIÈRE	R9 > 50 (OPTION 90 IRC)					
TOLÉRANCE DE CLIGNOTEMENTS	PEU DE CLIGNOTEMENT (CONFORME À CALIFORNIA TITLE 24)					

#### FACTEUR D'EFFICACITÉ

IRC	CCT	FACTEUR
80+	4000K	1.00
80+	3500K	0.99
80+	3000K	0.97
80+	2700K	0.94
90+	4000K	0.89
90+	3500K	0.86
90+	3000K	0.84
90+	2700K	0.80

#### DISTRIBUTION LUMINEUSE



X230



Visitez notre site Web pour les termes et conditions.



## DONNÉES TECHNIQUES

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V1.0 — 2021.10



**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LS2, LS3**

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# JUNCTION BOX 3981E

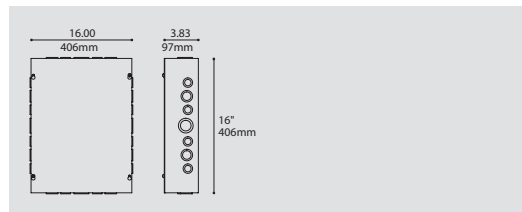
PROJECT PROJÉT
SPEC TYPE
NOTES



ORDERING SPECIFICATION	SPÉCIFICATION DE COMMANDE	CODE
MODEL MODÈLE		
3981EA	APPROX. 10W MAX EMERGENCY BACKUP POWER	
3981EB	APPROX. 5W MAX EMERGENCY BACKUP POWER	

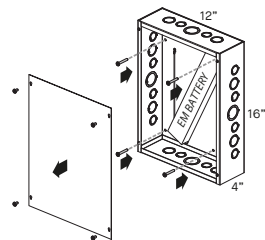
## PRODUCT CHARACTERISTICS CARACTÉRISTIQUES DU PRODUIT

DESIGN :	Remote junction box and cover with an emergency backup driver. Features matching wires and labelling to simplify installation. Is required to complete luminaires ordered with EMB remote emergency box option (selected models, refer to specification sheets. Other models possible upon request). Available in several power outputs, selected according to the luminaire power.
STRUCTURE :	Die-stamped 16 gauge grey painted steel. Knockouts on all 4 sides from 1/2" to 1-1/4".
CERTIFIED :	c-CSA-us, UL, RoHS, NEMA Type 1, FCC
CONCEPTION :	Boîte de jonction à distance avec couvercle avec batterie d'urgence intégré. Contient des fils avec couleurs et étiquetage pour simplifier l'installation. Requis pour compléter un luminaire commandée avec l'option EMB (voir pages de spécification pour produits avec l'option EMB. Autres produits possibles sur demande). Disponible en plusieurs puissances, sélectionnées en fonction du luminaire.
STRUCTURE :	Acier plié de 16 gauge peinturé gris avec coins soudés. Débouchures sur 4 côtés 1/2" à 1-1/4".
CERTIFIÉ :	c-CSA-us, UL, RoHS, NEMA Type 1, FCC



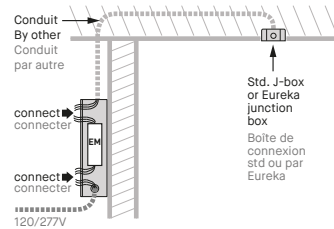
## INSTALLATION SUMMARY SOMMAIRE D'INSTALLATION

### STEP 1 ÉTAPE 1



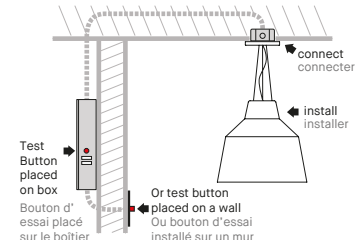
Remove cover and fasten box remotely to a wall or a ceiling.  
Enlever le couvercle et fixer la boîte à distance sur un mur ou un plafond.

### STEP 2 ÉTAPE 2



Run conduit from box to junction box of luminaire.  
Conduit must have a minimum of 5 wires with wire gauge and maximum distance as per EM driver distance chart.  
Connect EM driver to conduit wires and ac branch circuit.  
Faites passer le conduit de la boîte EM à la boîte de connexion du luminaire. Consulter le tableau de "distance maximale" disponible dans la feuille d'installation. Branchez la batterie EM avec les fils du conduit ainsi que la ligne 120V ou 277V.

### STEP 3 ÉTAPE 3



Install luminaire & connect its wires to conduit. Install test button on wall or box (wall plate not supplied).  
Installer le luminaire & connecter les fils au conduit. Installer le bouton d'essai sur le mur ou boîtier (plaque murale non fournie).

REFER ALSO TO INSTALLATION DRAWING AND EM GUIDE FOR MORE INFORMATION.  
CONSULTEZ LE DESSIN D'INSTALLATION ET LE GUIDE EM POUR PLUS D'INFORMATIONS.



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## SPECIFICATION

V1.0 — 2019.10



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Fixture Type:

**LS2, LS3**

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# 3981E REMOTE EMERGENCY BOX KIT - IOTA EM DRIVER

## SAFETY GUIDELINES :

- > Follow safety instructions and guidelines of EM battery/driver manufacturer for the specific model.
- > Install by qualified personnel in accordance with the National Electrical Code and local regulations.
- > Turn off power supply before installation or servicing the fixture.

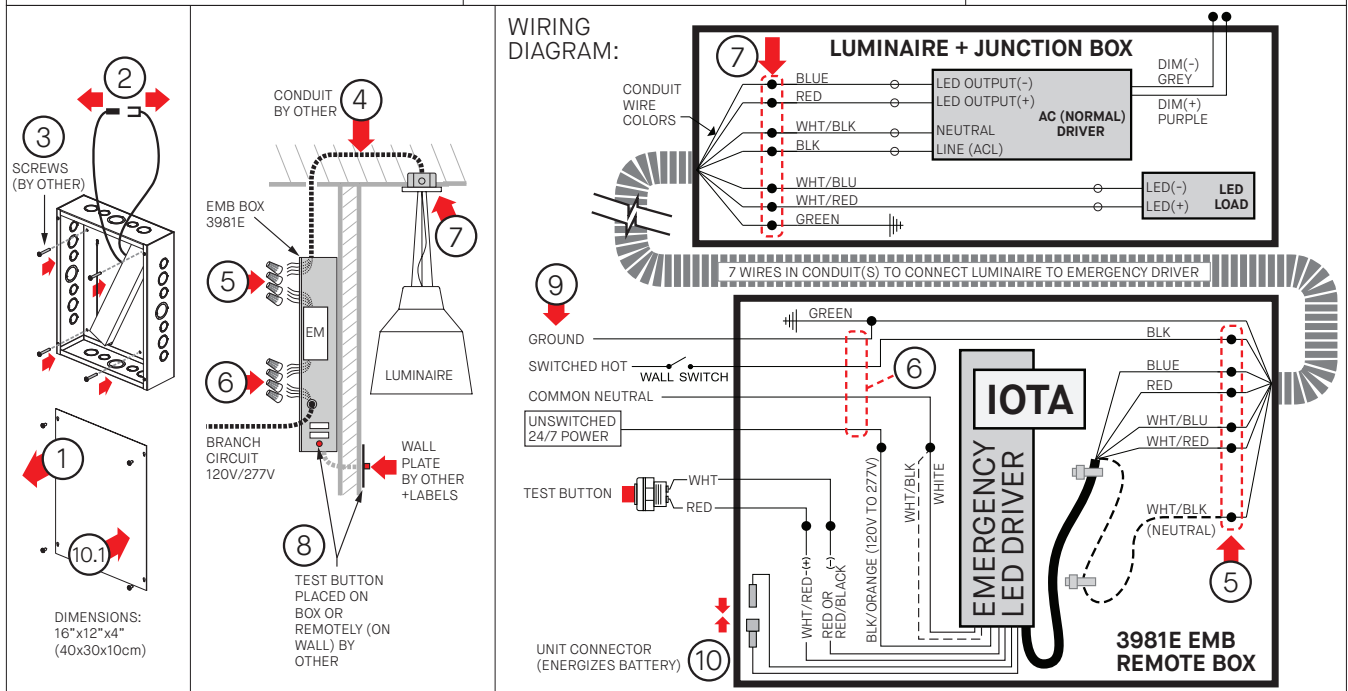
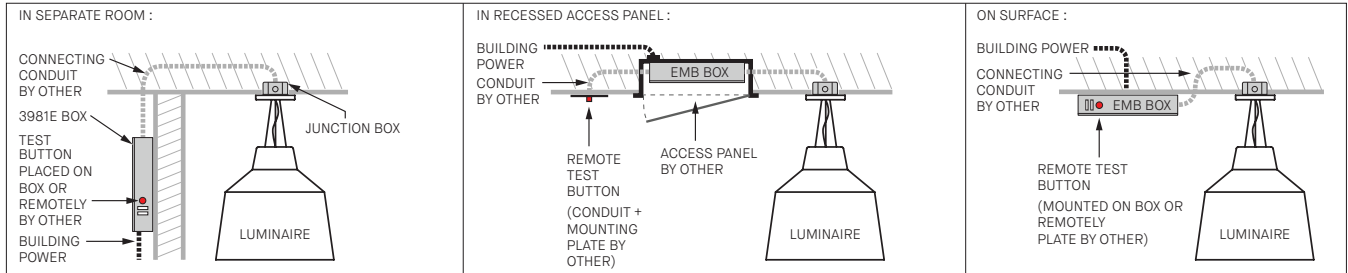
## EMB LOCATION :

- > The 3981E box connects to a luminaire ordered with an EMB option (which has specific EM WIRING).
- > Consult our chart for maximum remote distance of EM battery to luminaire leds.
- > Establish desired location for EMB box & EM test button on box or on a wall.

**EM Remote Distance Chart**  
Maximum distance EM battery to Luminaire LEDs (Ft)

MAX EM BOX DISTANCE (Ft)		CONDUIT WIRE GAUGE (AWG)							
		10	12	14	16	18	20	22	
LUMINAIRE	200mA	1043'	651'	413'	259'	163'	103'	65'	
DRIVER	350mA	596'	372'	236'	148'	93'	59'	37'	
OUTPUT	500mA	417'	261'	165'	104'	65'	41'	26'	
CURRENT*	700mA	298'	186'	118'	74'	47'	29'	18'	
(Amps)	1000mA	209'	130'	83'	52'	33'	21'	13'	
*Contact	1400mA	149'	93'	59'	37'	23'	15'	9'	
Eureka	2000mA	104'	65'	41'	26'	16'	10'	6'	
	3000mA	70'	43'	28'	17'	11'	7'	4'	

## EMB PLACEMENT EXAMPLES :



## INSTALLATION

- 1 - REMOVE BOX COVER.
- 2 - IF CONNECTED, DISCONNECT THE EM BATTERY 'UNIT CONNECTOR' (WHITE).
- 3 - SCREW BOX TO MOUNTING SURFACE (SCREWS NOT SUPPLIED)
- 4 - RUN CONDUIT FROM EMB BOX TO ELECTRICAL JUNCTION BOX OF LUMINAIRE. CONDUIT MUST HAVE MIN. 7 WIRES AND WIRE GAUGE AS PER DISTANCE CHART.
- 5 - CONNECT CONDUIT WIRES TO EM BATTERY AS PER WIRING DIAGRAM.  
\*CAREFULLY NOTE\* WHICH WIRE COLORS ARE CONNECTED TOGETHER ON EACH END.
- 6 - CONNECT BATTERY TO AC BRANCH CIRCUIT : GROUND, NEUTRAL, 24/7 UNSWITCHED LINE (HOT) AND SWITCHED LINE (ON SAME CIRCUIT AS LUMINAIRE ON/OFF CONTROL).
- 7 - INSTALL SPECIFIC EM LUMINAIRE, CONNECT WIRES TO CONDUIT USING THE SAME CORRESPONDING COLORS NOTED AT THE EM BATTERY-CONDUIT CONNECTION.
- 8 - INSTALL EM BATTERY TEST BUTTON IN DESIRED LOCATION. WALL PLATE BY OTHER. ADD LABELS "PUSH TO TEST" & CHARGING INDICATOR LIGHT".

- 9 - SWITCH ON AC POWER.
- 10 - JOIN THE EM BATTERY CONVERTOR CONNECTOR. 10.1 - INSTALL BOX COVER.
- 11 - IF EMB IS FAR FROM THE LUMINAIRE, IDENTIFY TO WHICH LUMINAIRE IT IS CONNECTED.

AT THIS POINT POWER SHOULD BE CONNECTED TO BOTH THE AC DRIVER AND THE EMERGENCY DRIVER & TEST/CHARGE LIGHT SHOULD ILLUMINATE, INDICATING BATTERY IS CHARGING.

## TESTING & EM DRIVER/BATTERY MAINTENANCE:

CONDUCT A SHORT-TERM DISCHARGE TEST AFTER THE EMERGENCY DRIVER HAS BEEN CHARGED FOR MINIMUM ONE HOUR. CHARGE FOR 24 HOURS BEFORE CONDUCTING A LONG-TERM DISCHARGE TEST.

FOLLOW GUIDELINES FROM THE EM DRIVER/BATTERY MANUFACTURER INSTRUCTIONS FOR THE REQUIRED PERIODIC TESTING AND MAINTENANCE GUIDELINES.



## INSTALLATION

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V1.0 - 2021-04

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Fixture Type:

**LS2, LS3**

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# 3981E BOÎTE D'URGENCE À DISTANCE - DRIVER EM IOTA

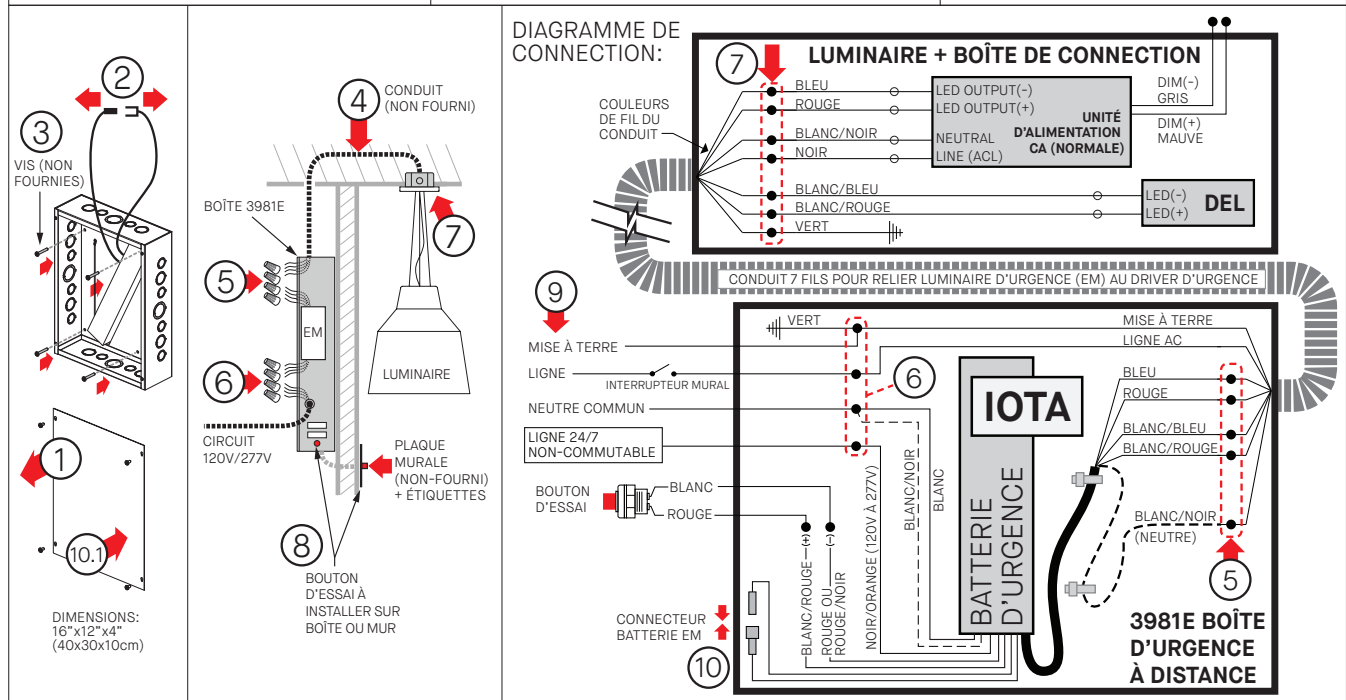
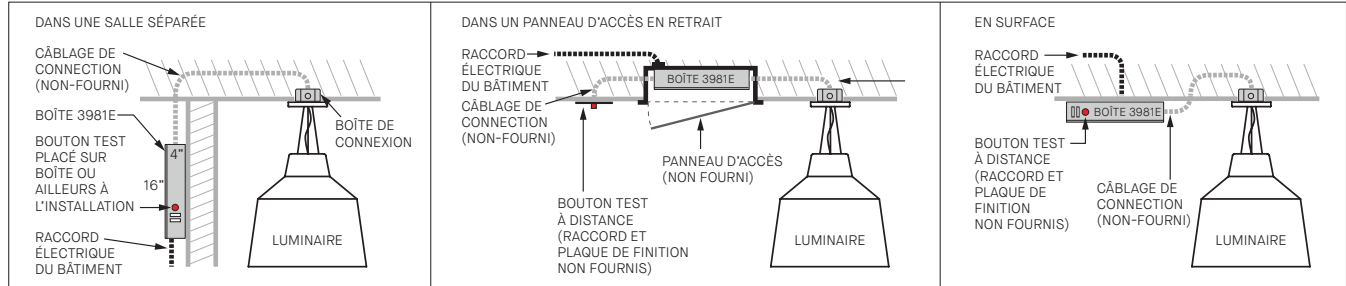
## DIRECTIVES DE SÉCURITÉ:

- > Suivre les consignes de sécurité et les directives d'installation du fabricant de la batterie d'urgence.
- > Installer par du personnel qualifié conformément au code électrique national et local.
- > Fermer l'alimentation avant l'installation ou l'entretien.

## EMPLACEMENT :

- > Cette boîte 3981E se connecte à un luminaire commandé avec l'option EMB (qui a du filage spécifique).
- > Consulter le tableau pour la distance maximale de la batterie d'urgence aux DELs du luminaire.
- > Déterminer l'emplacement souhaité pour la boîte EMB et le bouton de test d'urgence.

## EXEMPLES D'EMPLACEMENT:



## INSTALLATION

- 1 - DÉVISSER LE COUVERCLE.
- 2 - DÉCONNECTER LE CONNECTEUR BLANC DE BATTERIE EM (UNIT CONNECTOR).
- 3 - FIXER LA BOÎTE SUR LE MUR/PALFOND AVEC VIS (NON FOURNIES)
- 4 - PASSER DU CONDUIT DU EMB VERS LA BOÎTE DE CONNEXION ÉLECTRIQUE DE LUMINAIRE. LE CONDUIT DOIT AVOIR 7 FILS AVEC JAUGE DE FIL SELON CHARTRE DE DISTANCE.
- 5 - CONNECTER LES FILS DE CONDUIT À LA BATTERIE EM SELON LE SCHÉMA DE CÂBLAGE.
- 6 - CONNECTER LA BATTERIE AU CIRCUIT DE DÉRIVATION AC (FILS: MISE A LA TERRE, NEUTRE, LIGNE & LIGNE SANS INTERRUPTEUR 24H/7\* (\*DOIT ÊTRE LE MEME CIRCUIT QUE LE CONTROLE DU LUMINAIRE)).
- 7 - INSTALLER LUMINAIRE SPÉCIFIQUE EM, CONNECTER LES FILS AU CONDUIT AVEC MÊMES COULEURS CORRESPONDANTES DE LA BATTERIE EM AUX FILS DE CONDUIT.
- 8 - INSTALLER LE BOUTON D'ESSAI DE BATTERIE EM DANS L'ENDROIT SOUHAITÉ (PLAQUE MURALE PAR AUTRE). COLLER ÉTIQUETTES "PUSH TO TEST" & CHARGING INDICATOR LIGHT".

- 9 - ALIMENTER LE CIRCUIT AC.
- 10 - JOINDRE CONNECTEUR BLANC DE BATTERIE EM. 10.1 - INSTALLER COUVERCLE DE BOITE.
- 11 - SI LE EMB EST LOIN DU LUMINAIRE, IDENTIFIER À QUEL LUMINAIRE IL EST CONNECTÉ.

A CE STADE, L'ALIMENTATION DEVRAIT ÊTRE CONNECTÉE À L'UNITÉ D'ALIMENTATION AC ET LA BATTERIE D'URGENCE ET LA LUMIÈRE DE TEST/CHARGE S'ILLUMINE, INDICANT QUE LA BATTERIE SE CHARGE.

## ESSAIS & ENTRETIEN DE LA BATTERIE:

FAITES UN TEST DE DÉCHARGE À COURT TERME APRÈS AVOIR CHARGÉ LA BATTERIE D'URGENCE AU MINIMUM UNE HEURE. CHARGEZ 24 HEURES AVANT D'EFFECTUER UN TEST DE DÉCHARGE À LONG TERME.

SUIVRE LES DIRECTIVES DU FABRICANT DE BATTERIE / CONDUCTEUR EM (SITE WEB) POUR LES DIRECTIVES PÉRIODIQUES REQUISES EN MATIÈRE DE TEST ET D'ENTRETIEN.



## INSTALLATION

V1.0 - 2021-04

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Fixture Type:

**LS2, LS3**

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# BOUQUET 4428-10-RAP

PROJECT PROJET
SPEC TYPE
NOTES



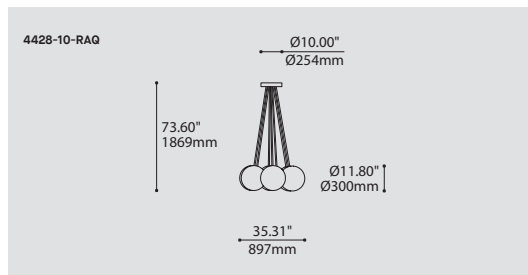
## OPTIONS



4901 DETAIL



4902 DETAIL



ORDERING SPECIFICATION SPÉCIFICATION DE COMMANDE		CODE
MODEL MODÈLE	4428-10-RAP	4428-10-RAP
4428-10-RAP	BOUQUET MIKA Ø12"	
SHADE QUANTITY QUANTITÉ D'ABAT-JOUR	7	7
7	7 X SHADES	
LIGHT SOURCE SOURCE LUMINEUSE	LED.9	LED.9
(WATTAGE, LAMP TYPE, OTHER INFO)		
LED.9	9W, LED	
COLOR TEMPERATURE TEMPÉRATURE DE COULEUR		
27*	2700K	
30	3000K	
35	3500K	
40	4000K	
* LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE		
COLOR RENDERING INDEX (CRI) INDICE DE RENDU DE COULEUR (IRC)		
80	80+ CRI	
90*	90+ CRI	
* LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE		
VOLTAGE VOLTAGE		
120V	120 VOLT	
277V	277 VOLT	
DIMMING OPTION OPTION DE GRADATION		
DV	0-10V DIMMING (120-277V)	
DP	PHASE DIMMING (120V ONLY)	
LED DIMMING DRIVER IS STANDARD IN THESE PRODUCTS, PLEASE SPECIFY YOUR DIMMING TYPE.		
CABLE CABLE		C
C	CLEAR CABLE, FIELD ADJUSTABLE	
CABLE LENGTH LONGUEUR DE CABLE		
60	60" CABLE (STD LENGTH)	
**	CUSTOM CABLE LENGTH (PLEASE SPECIFY)	
FOR OVERALL LENGTH PLEASE CONTACT YOUR EUREKA REPRESENTATIVE.		
CANOPY FINISH FINI PAVILLON		WHE
WHE*	WHITE FINE TEXTURE	
* CENTRAL PIECE IS ALWAYS BLACK		
DIFFUSER FINISH FINI DIFFUSEUR		WH
WH	WHITE	
ACCESSORY ACCESSOIRE		
4901	HOOK	
4902	LOOP	

## PRODUCT CHARACTERISTICS CARACTÉRISTIQUES DU PRODUIT



DESIGN:	Offered in a wide variety of configurations, Bouquet is a cluster of 7 fixtures all emerging from the matte black recessed center hole of a white canopy. Bouquet can be paired with the adjustable cable holder accessories, Hook (4901) and Loop (4902), which can be easily installed and removed.
INSTALLATION:	Bouquet mounts on standard junction boxes and is supplied with support hook for easy installation.
LIGHT SOURCE:	High performance LED module with dimming options available.
STRUCTURE:	Spun steel chrome plated canopy with matte black center hole to hide mounting hardware.
CERTIFIED:	c-CSA-us
CONCEPTION:	Offert dans une grande variété de configurations, Bouquet est un groupe de 7 luminaires émergeant du trou encastré au centre d'un pavillon blanc. Bouquet peut être jumelé avec l'accessoire serre-câble ajustable Loop (4902), qui peut être facilement installé ou retiré de l'assemblage.
INSTALLATION:	Un crochet de support est fourni pour faciliter l'installation sur une boîte de jonction standard.
SOURCE LUMINEUSE:	Module DEL à haute intensité offert avec choix de gradation standard.
STRUCTURE:	Pavillon en acier repoussé et chromé avec section centrale noire mate pour camoufler les supports.
CERTIFIÉ:	c-CSA-us

## FAMILY FAMILLE



4230-RAP



4428-16-RAP



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## SPECIFICATION

V3.0-202103



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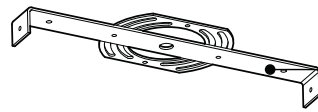
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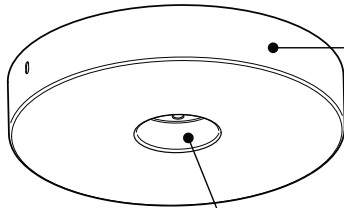
Fixture Type:

**LS2, LS3**

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**EASY INSTALLATION**

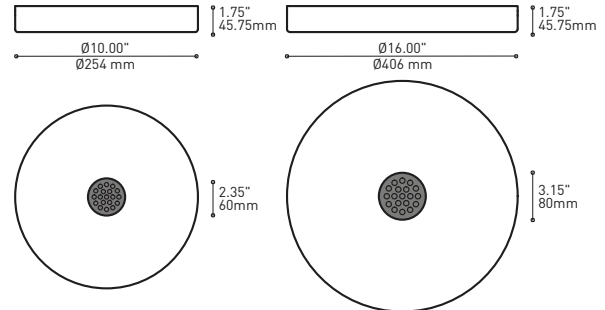
Mounts to standard junction box with added mounting points to reinforce installation

**SIMPLE CANOPY**

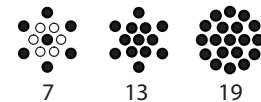
White plated canopy with plenty of room to house all electrical components for quick assembly

**CENTER PIECE**

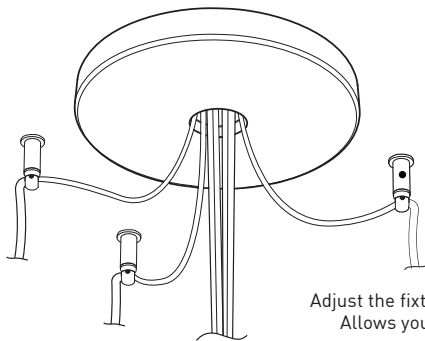
Matte black recessed center hole



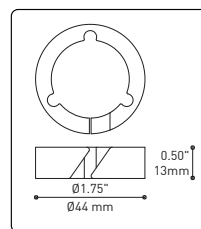
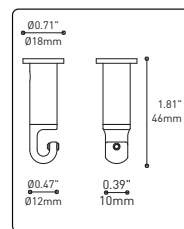
Wide variety of configurations

**ACCESSORIES**

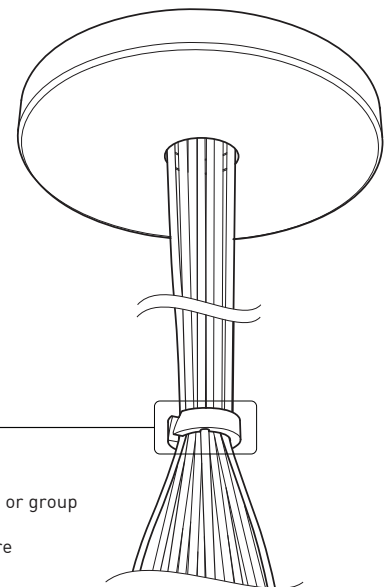
Allows more creativity

**HOOK 4901**

Adjust the fixture to the desired height  
Allows you to make big statements

**LOOP 4902**

Can straighten, lock height or group up to 19 power cables  
Can be installed after fixture installation



FIXTURE	CODE			LIGHT SOURCE		MAX. WATTAGE		
		Ø 10	Ø 16	LED	INC	LED		
		Nb. FIXTURE				7	13	19
ALVER	MCC	7ou13	19	X	X	28W	52W	76W
ROLO PENDANT	MAD	7ou13	19	X		28W	52W	76W
MEHA	UAC	7ou13	19	X		28W	52W	76W
FACET	UFC	7ou13	19	X		28W	52W	76W
SLIM STACK	SLS	7ou13	19	X	X	28W	52W	76W
STUBBY STACK	STS	7ou13	19	X	X	28W	52W	76W
MIKA	RAP	7	13ou19	X		63W	117W	171W
MIKA	RAQ	7	13ou19	X		91W	169W	247W



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4428



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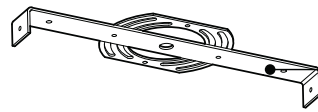
**Project:** Toronto Public Library - Pleasant View Branch

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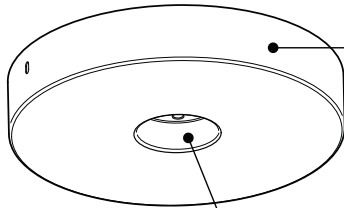
Fixture Type:

**LS2, LS3**



**FACILE D'ASSEMBLAGE**

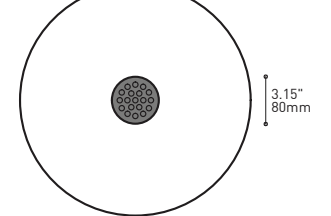
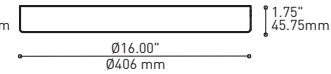
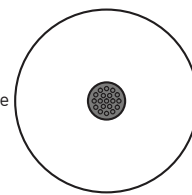
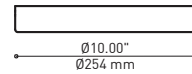
- Installation sur boîte de jonction standard avec des points d'ancrage multiples
- Crochets de support fournis pour faciliter l'installation

**PAVILLON SIMPLE**

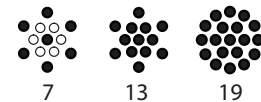
Pavillon blanc en acier repoussé avec espace nécessaire pour accueillir toutes les composants internes

**SECTION CENTRALE**

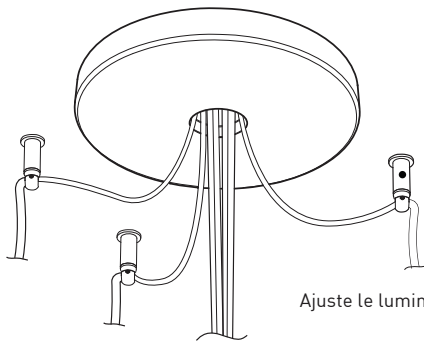
Pièce noir matte servant à camoufler les supports des fils



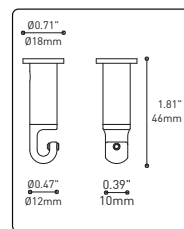
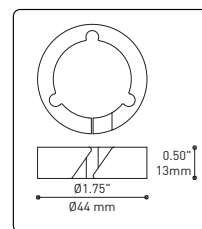
Grande variété de configurations

**ACCESSOIRES**

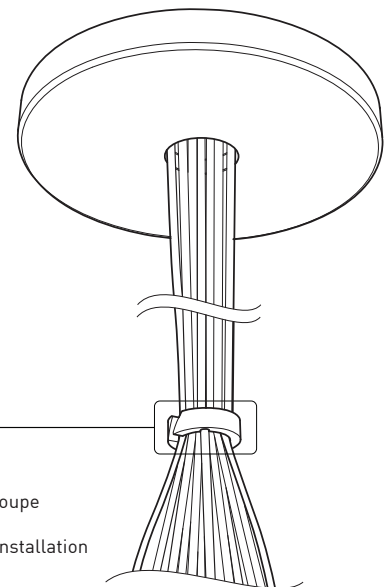
Permet une plus grande créativité



Ajuste le luminaire à la hauteur désirée

**CROCHET 4901****ANNEAU 4902**

Redresse, organise et regroupe jusqu'à 19 câbles  
Peux-être installé après l'installation du luminaire



FIXTURE	CODE			SOURCE LUM.		MAX. WATTAGE		
		Ø 10	Ø 16	LED	INC	LED		
		Nb. FIXTURE				7	13	19
ALVER	MCC	7ou13	19	X	X	28W	52W	76W
ROLO PENDANT	MAD	7ou13	19	X		28W	52W	76W
MEHA	UAC	7ou13	19	X		28W	52W	76W
FACET	UFC	7ou13	19	X		28W	52W	76W
SLIM STACK	SLS	7ou13	19	X	X	28W	52W	76W
STUBBY STACK	STS	7ou13	19	X	X	28W	52W	76W
MIKA	RAP	7	13ou19	X		63W	117W	171W
MIKA	RAQ	7	13ou19	X		91W	169W	247W



225 de Liège Ouest, Suite #200  
Montréal (QC), Canada H2P 1H4  
Tel : 514.385.3515 Fax : 514.385.4169  
www.eurekalighting.com



4428



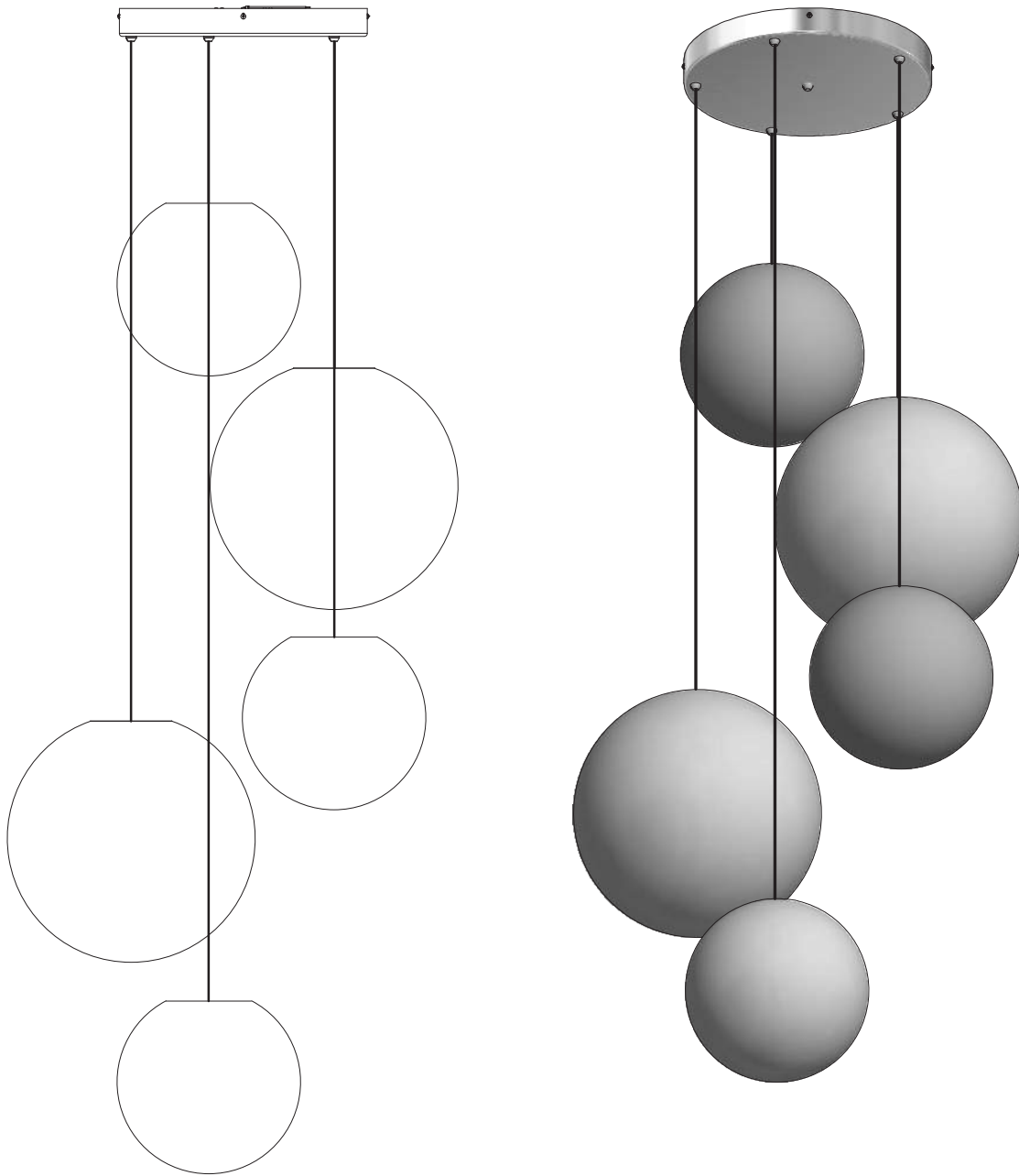
**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

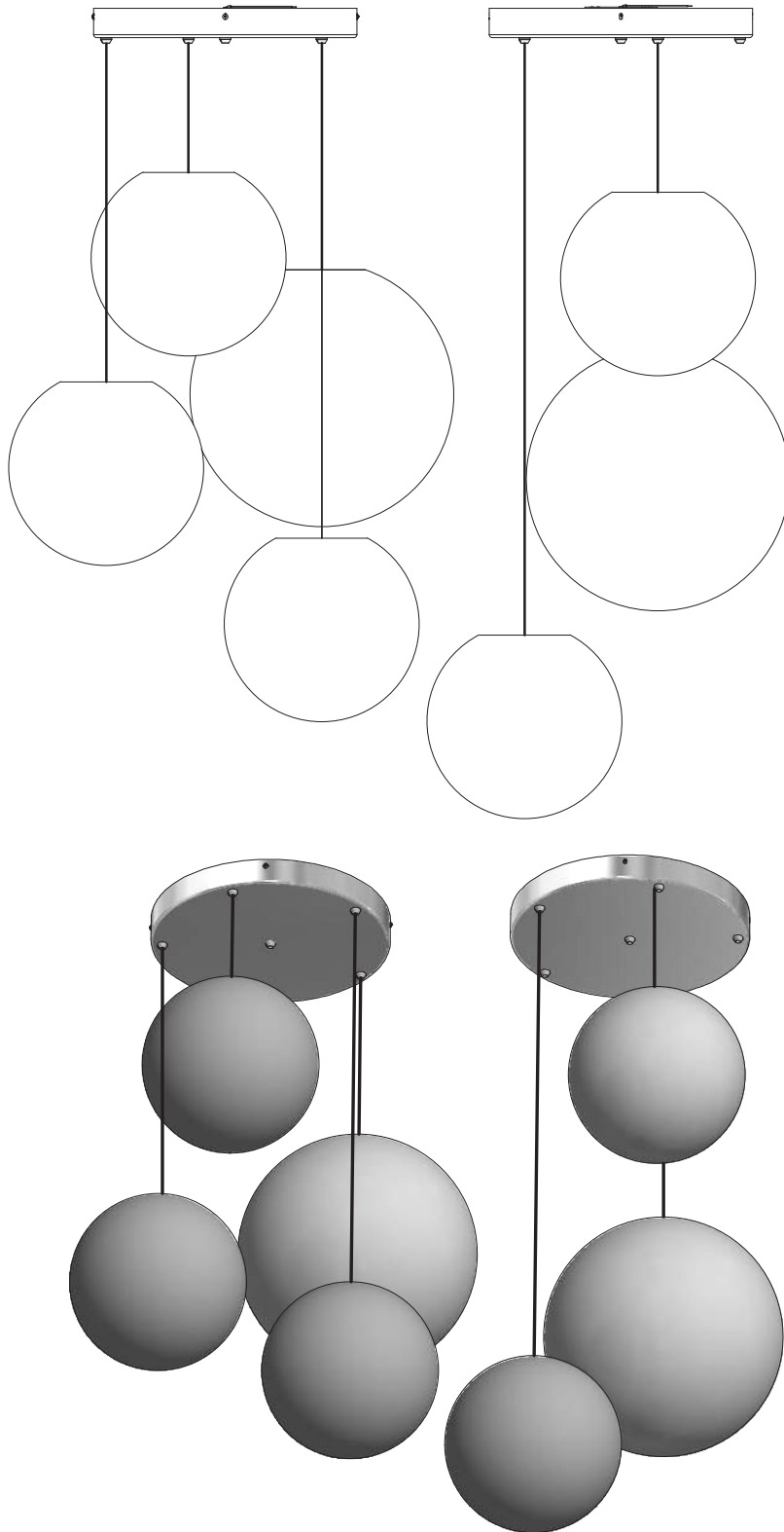
Fixture Type:

**LS2, LS3**



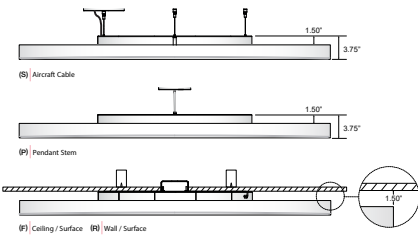
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					DESC : DROP-6
0		DRAWING / DESSIN			





REVISION	#	REVISION DESCRIPTIONS	INITIAL	DATE	PROD : 4427-XXX-6_2
					DESC : DROP-6
0		DRAWING / DESSIN			





PROJECT INFORMATION

Project Info	Date
<div></div>	<div></div>
Type	Quantity
<div></div>	<div></div>

ATL3U

PERFORMANCE AT 4000K

OUTPUT	DIAMETER	DELIVERED LM	INPUT WATTS	EFFICACY
LH <small>(high)</small>	20"	2,655 lm	38.3 W	70 lm/W
	32"	6,534 lm	80 W	82 lm/W
	48"	15,770 lm	183 W	86 lm/W
LS <small>(standard)</small>	20"	1,411 lm	27.7 W	73 lm/W
	32"	3,334 lm	60.6 W	86 lm/W
	48"	8,379 lm	122.6 W	94 lm/W



**Need help?**  
**Don't see what you need?**  
We know that having so many options can be overwhelming. Please reach out to our factory for any specific request or questions you have. Our talented Design Assist team is here to make the process move smoothly.

ATL3					U	
SERIES	DIAMETER	OUTPUT	LED CCT	LED CRI	VOLTAGE	MOUNTING
ATL3	20 20"	LH High output	30 3000K	_ CRI 80+ CRI 90+ CRI	U 120V-277V	S Aircraft Cable*
	32 32"	LS Standard output	35 3500K			R Wall Surface Mount
	48 48"	C_ Custom Output*	40 4000K			F Ceiling Surface Mount
				P_ Rigid Stem** PV_ Swivel Stem**		
						<p>*Standard 48" field adjustable cable, specify length to nearest inch if over 48". Black power cord provided for satin black and titanium finish and white power cord provided for all other fixture finishes, unless otherwise specified. Not available for 48" fixtures.</p> <p>**Indicate stem length to nearest inch, 6.00" minimum</p>
		*Contact Design Assist for custom tuning.				

FINISH	DIMMING	EMERGENCY
T Titanium W White B Black O_ Other*	D Standard 0-10V dimming*	E1 Emergency - battery*
*Specify RAL#		*20" uses IOTA-ILB-CP12-B (12W unit, remote) and 48" uses IOTA-ILB-CP12-B (12W unit, integral) while 32" uses IOTA-ILB-CP05-B (5W unit, integral). Specify desired quantity of batteries. Not available for 347V, 20" remotely mounted in RME1 enclosure.
*5% Dimming standard unless otherwise specified.		



3728 MARITIME WAY | OCEANSIDE, CA 92056  
760.727.7675 | [ALIGHTS.COM](https://www.alights.com) | REV. 2.2 01/2024



**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch  
**Date:** Issued for Tender - April 1, 2025

Fixture Type:  
**LS4 Series**  
Page 1 of 10

## LIGHT DISTRIBUTION

## DISTRIBUTION

Direct Symmetric

## OUTPUT (DC)

LH: High output  
 LS: Standard output  
 C: Custom tuned output - Contact Design Assist

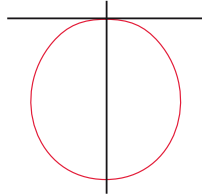
## PHOTOMETRIC DATA

## DIRECT SYMMETRIC

ATL3 - 20 - LH - 4000K

Lumens: 2,665lm  
 Input watts: 38.3 W  
 Efficacy: 70 lm/W

LH:



ATL3 - 32 - LH - 4000K

Lumens: 6,524 lm  
 Input watts: 78.1W  
 Efficacy: 84 lm/W

LH:

ATL3 - 48 - LH - 4000K

Lumens: 15,770lm  
 Input watts: 176.2 W  
 Efficacy: 89 lm/W

LH:

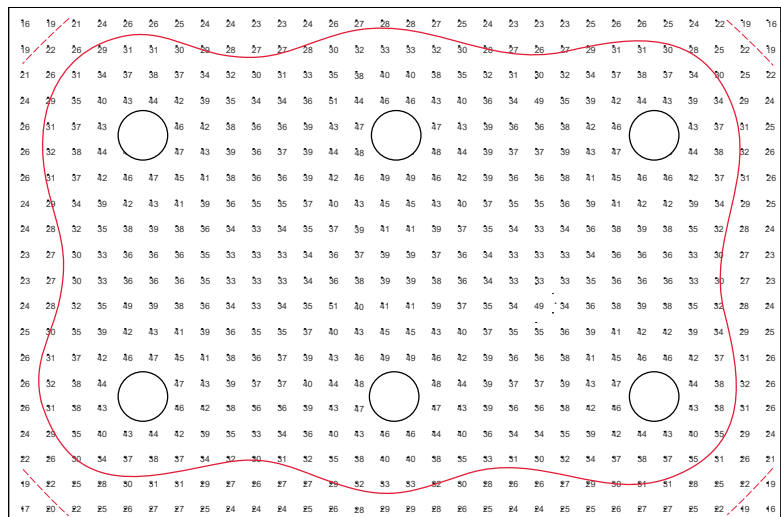
## SAMPLE INSTALLATION - WORKSPACE

ATL3-48-LH-40

Room dimensions: 40' X 60' X 12'  
 Reflectance: 80% / 50% / 20%  
 Mounting height: 12' ft A.F.F.  
 Fixture dimensions: 48" diameter  
 Calculation grid: 2' ft X 2' ft  
 Calculation plane: Ground  
 Average Illuminance: 35fc  
 Fixture spacing: 20' ft X 20' ft O.C.  
 Uniformity: 2.2 (avg/min)

## TOP VIEW

30 fc:   
 20 fc:

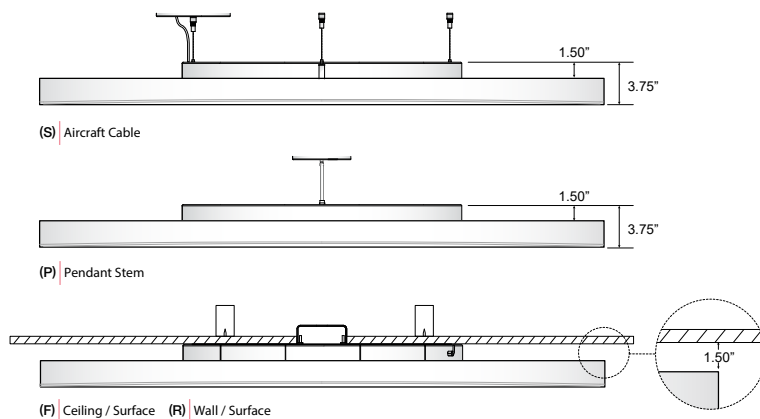
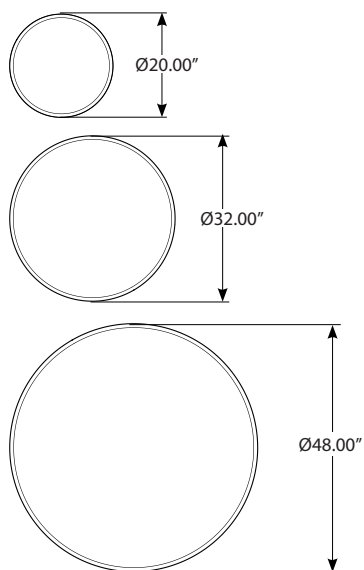


LIGHT LOSS FACTORS (LLF)

OUTPUT	CCT	DIRECT					
		20"		32"		48"	
		CRI 80 +	CRI 90 +	CRI 80 +	CRI 90 +	CRI 80 +	CRI 90 +
LH <small>(high)</small>	4000k	2,665 lm	2,353 lm	6,559 lm	5,792 lm	15,795 lm	13,947 lm
	3500k	2,609 lm	2,276 lm	6,421 lm	5,601 lm	15,463 lm	13,489 lm
	3000k	2,510 lm	2,151 lm	6,179 lm	5,293 lm	14,879 lm	12,747 lm
	2700k	2,414 lm	2,039 lm	5,942 lm	5,018 lm	14,310 lm	12,083 lm
LS <small>(standard)</small>	4000k	2,025 lm	1,788 lm	5,241 lm	4,628 lm	11,520 lm	10,172 lm
	3500k	1,982 lm	1,729 lm	5,131 lm	4,476 lm	11,278 lm	9,838 lm
	3000k	1,908 lm	1,634 lm	4,937 lm	4,229 lm	10,852 lm	9,297 lm
	2700k	1,835 lm	1,549 lm	4,748 lm	4,009 lm	10,437 lm	8,813 lm

Factors above for high output (LH).  
For standard output (LS) -50%.





## DIMENSIONS

20", 32", and 48" diameter surface and suspension fixtures maintain a 2.25" profile height and 3.75" overall height including back wireway compartment making the fixture ADA compliant.

## OPTICS

A 0.177" thick concave thermoformed diffuser made up of a high performance acrylic blend hides LED hot spots while providing equal and seamless diffusion.

## LED LIGHT SOURCE

Custom manufactured round board array uses high performance Nichia® LED in combination with a performance driven heat sink technology. Tested in accordance with LM-79 and LM-80; L70>60,000hr; operated at reduced output for high efficacy and lumen maintenance. 3000K, 3500K, and 4000K with 80+ CRI standard; other color temperatures and 90+ CRI available upon request, contact factory. LED color variation maintained at a 3-step MacAdam ellipse (SDCM 3x). Refer to photometry for delivered lumens.

## LED DIMMING DRIVER

Factory tuned constant current electronic 0-10V control dimming driver is standard. Specification grade dimming down to 5%. Driver life of 50,000 hrs with ambient operating temperature range of -30°C to 50°C, maximum case temperature of 75°C. Electrical specifications at maximum driver load: PF >0.9, THD <20%, >85% Efficiency.

## EMERGENCY

Factory installed integrated fixture LED emergency battery pack for both normal and emergency operation, with the exception of the 20" fixture which must have a remote emergency battery. Unit contains long-life Ni-Cad recyclable battery, 24 hour charger, and converter circuit. Test switch and charge indicator provided. Test button installed on fixture from factory with the exception of the gyp version where to be installed remotely by others. Emergency mode provides constant power to a nominal 12W or 5W LED load for a period of 90 minutes, delivering 1200 or 550 lumens of unwavering illumination throughout the full 90 minute emergency duration. The 32" and 20" fixtures illuminate entirely, however the 48" fixture only illuminates half of the fixture. 20" fixtures' battery is remote mounted in RME1 enclosure provided by factory.

## CONTROLS

nLight enabled, remote mounted controls provided by others. Please contact an Acuity controls representative for more information.

## MOUNTING

Aircraft cable set includes three 48" standard length 1/16 stainless steel adjustable aircraft cables with secure micro grippers to field set suspension length, comes factory installed in fixture. 4-1/2" round canopy. IDS caddy clip and cord strain also included. Please refer to installation sheets for mounting weight requirements. Power cord options available for aircraft cable. Black power cord provided for textured black and titanium finish, white power cord provided for all other fixture finishes, unless otherwise specified.

Rigid pendant stem set includes 1/2" IPS hollow threaded rod for suspension and power feed, standard specification length, 6" minimum provided with a 5" round canopy diameter.

Swivel stem set includes 1/2" IPS hollow threaded rod for suspension and power feed, standard specification length, 6" minimum, provided with a 5" round canopy diameter.

Specify if other suspension length is required. Fixture can be mounted on angles within the recommended scope, please refer to installation instruction guide for recommended angles and mounting points for optimum conditions.

Ceiling surface mount version has a galvanized mounting plate that attaches to the junction box with #8-32 screws (provided by others) and is recommended to be further affixed to the ceiling with additional fasteners through the slots in the mounting plate (see installation instructions). The fixture twists onto this mounting plate through a series of descending receiving flanges, and is secured in place with a spring loaded locking mechanism. This mechanism also facilitates dismounting the fixture.

Wall surface mount version has a galvanized mounting plate that attaches to the junction box with #8-32 screws (provided by others) and is recommended to be further affixed to the wall with additional fasteners through the slots in the mounting plate (see installation instructions). The fixture twists onto this mounting plate through a series of descending receiving flanges, and is secured in place with a spring loaded locking mechanism.

## STRUCTURE

Robust, high quality precision rolled recycled aluminum extruded housing. Laser cut and precision bent sheet metal components and brackets. Approximate fixture weight, 20"=12lbs, 32"=26lbs, 48"=55lbs.

## FINISH

Electrostatically applied powder coat finish. Standard finish options include titanium, textured white and textured black. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.





#### LISTING

Tested in accordance with UL 1598 and certified to CEC/CSA C22.1, NEC, ANSI/NFPA 70, and NOM-001-SEDE. For USA and Canada. Dry & damp locations only.

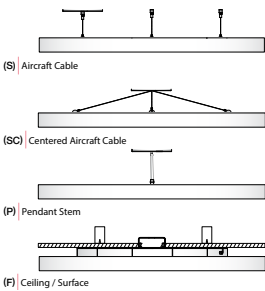
#### WARRANTY

Limited defect-free manufactured equipment warranty provided under normal use and proper storage for a period of one (1) year. LED products (LED boards and drivers) will be covered for a period of five (5) years. Please refer to full terms and conditions on our website.






ATLN



PROJECT INFORMATION

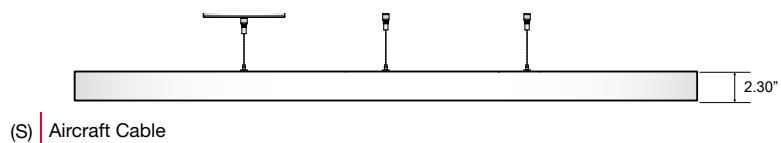
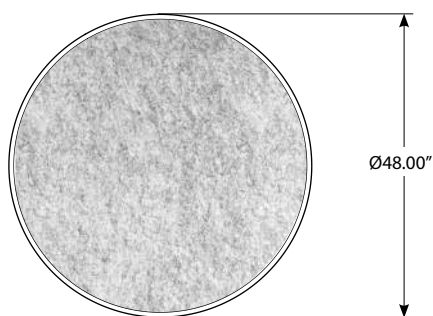
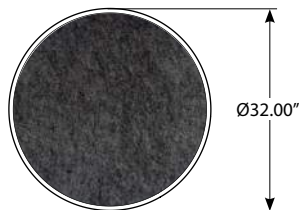
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Type	Quantity
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 Need help?  
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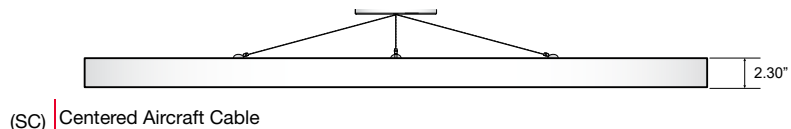
ATLN				
SERIES	DIAMETER	MOUNTING	FINISH	ACOUSTICS FINISH
ATLN	20 20" 32 32" 48 48"	S Aircraft Cable* SC Aircraft Cable Centered* R Wall Surface Mount F Ceiling Surface Mount P_ Rigid Stem** PV_ Swivel Stem**  <small>*Standard 48" field adjustable cable, specify length to nearest inch if over 48". Black power cord provided for satin black and titanium finish and white power cord provided for all other fixture finishes, unless otherwise specified. Not available for 48" fixtures. **Indicate stem length to nearest inch, 6.00" minimum</small>	T Titanium W White B Black O_ Other*  <small>*Specify RAL#.</small>	<b>Standard Colors</b> CHF SGF NBF REF <b>Premium Colors*</b> AWF SBF PGF PNF DYF OAF LBF ABF LGF ZFF TOF BTF DBF GGF TPF BOF TGF OBF DTF PPF PBF BBF MGF BGF BYF BKF  <small>*See Acoustic color chart for reference. Premium colors require longer lead time.</small>



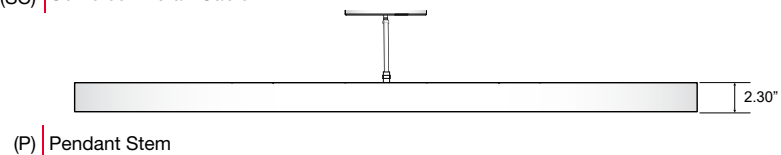
MOUNTING & DIMENSIONS



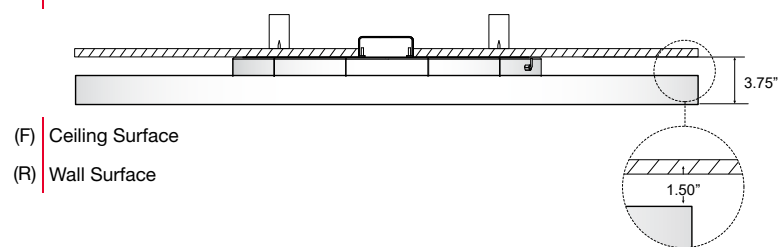
(S) Aircraft Cable



(SC) Centered Aircraft Cable



(P) Pendant Stem



(F) Ceiling Surface

(R) Wall Surface



## STANDARD COLORS



**CHF**  
Charcoal



**SGF**  
Silver Gray



**NBF**  
Navy Blue



**REF**  
Red

## PREMIUM COLORS



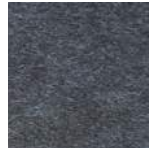
**AWF**  
Arctic White



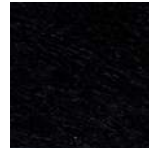
**LBF**  
Light Beige



**BTF**  
Battleship Gray



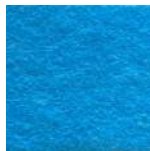
**TGF**  
Titanium Gray



**BBF**  
Basic Black



**SBF**  
Sky Blue



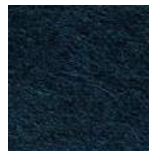
**ABF**  
Azure Blue



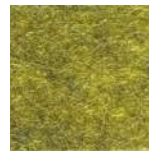
**DBF**  
Denim Blue



**OBF**  
Ocean Blue



**DTF**  
Deep Teal Green



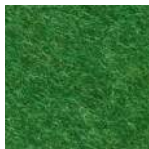
**MGF**  
Moss Green



**PGF**  
Pear Green



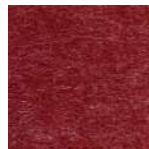
**LGF**  
Lime Green



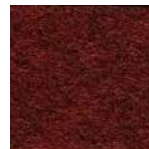
**GGF**  
Grass Green



**BGF**  
Bubble Gum



**PNF**  
Pinot Noir



**ZFF**  
Zinfandel



**TPF**  
Tulip Purple



**PPF**  
Plum Purple



**BYF**  
Banana Yellow



**DYF**  
Daisy Yellow



**TOF**  
Tangerine Orange



**BOF**  
Blood Orange



**PBF**  
Peanut Brown



**BKF**  
Bark Brown



**OAF**  
Oak Brown

Color chart for reference only. Due to the dye process, colors may vary from batch to batch, please consult Design Assist for details.



## DIMENSIONS

20", 32", and 48" diameter surface and suspension fixtures maintain a 2.25" profile height and 3.75" overall height including back wireway compartment making the fixture ADA compliant.

## MOUNTING

Aircraft cable set includes three 48" standard length 1/16 stainless steel adjustable aircraft cables with secure micro grippers to field set suspension length, comes factory installed in fixture. 4-1/2" round canopy. IDS caddy clip and cord strain also included. Please refer to installation sheets for mounting weight requirements. Power cord options available for aircraft cable. Black power cord provided for satin black and titanium finish, white power cord provided for all other fixture finishes unless otherwise specified.

Centered Aircraft cable set includes three 48" standard length 1/16 stainless steel adjustable aircraft cables with secure micro grippers to field set suspension length, comes factory installed in fixture. 6.30" x 0.5" round canopy. Please refer to installation sheets for mounting weight requirements. Power cord options available for aircraft cable. Black power cord provided for black and titanium finish, white power cord provided for all other fixture finishes unless otherwise specified. Canopy is standard white finish, unless otherwise specified.

Rigid pendant stem set includes 1/2" IPS hollow threaded rod for suspension and power feed, standard specification length, 6" minimum provided with a 5" round canopy diameter.

Swivel stem set includes 1/2" IPS hollow threaded rod for suspension and power feed, standard specification length, 6" minimum, provided with a 5" round canopy diameter.

Specify if other suspension length is required. Fixture can be mounted on angles within the recommended scope, please refer to installation instruction guide for recommended angles and mounting points for optimum conditions.

Ceiling surface mount version has a galvanized mounting plate that attaches to the junction box with #8-32 screws (provided by others) and is recommended to be further affixed to the wall with additional fasteners through the slots in the mounting plate (see installation instructions). The fixture twists onto this mounting plate through a series of descending receiving flanges, and is secured in place with a spring loaded locking mechanism. This mechanism also facilitates dismounting the fixture.

Wall surface mount version has a galvanized mounting plate that attaches to the junction box with #8-32 screws (provided by others) and is recommended to be further affixed to the wall with additional fasteners through the slots in the mounting plate (see installation instructions). The fixture twists onto this mounting plate through a series of descending receiving flanges, and is secured in place with a spring loaded locking mechanism.

## ACOUSTICS

The felt-like polyester panels are made from at least 40% post-consumer

recycled PET bottles and are fully recyclable, no VOCs formaldehyde free. Fire tested according to ASTM E-84 Class A. The carefully studied hollow core design and the large surface area contribute to lowering the

reverberation time in a set environment by absorbing sound frequencies (ideal for human voice range 250Hz to 2000Hz). Material has inherent NRC of 0.75. It is recommended to consult sound professionals for optimal spacing, positioning and quantity of acoustic material for your environment. Due to the dye process, colors may vary from batch to batch. Premium colors require longer lead time. Refer to full terms and conditions on our website.

## STRUCTURE

Robust, high quality precision rolled recycled aluminum extruded housing. Laser cut and precision bent sheet metal components and brackets. Approximate fixture weight, 20"=12lbs, 32"=26lbs, 48"=55lbs.

## LISTING

Tested in accordance with UL 1598 and certified to CEC/CSA C22.1, NEC, ANSI/NFPA 70, and NOM-001-SEDE. For USA and Canada. Dry & damp locations only.

## WARRANTY

Limited defect-free manufactured equipment warranty provided under normal use and proper storage for a period of one (1) year.

## FINISH

Electrostatically applied powder coat finish. Standard finish options include titanium, textured white and textured black. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement. Colors may vary from batch to batch.





## General Illumination Pendant Stem Cylinder

4"

### OVERVIEW

#### Feature Set

- Batwing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
- Bounding Ray™ optical design
- 45° cutoff to source and source image
- Fully serviceable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional
- Fixtures are damp location standard; Wet location (WL) optional, requires covered ceiling
- 20 standard colors in textured and gloss finish; custom or RAL colors also available
- Field cuttable 1/2" stems with concealed couplers.
- Multiple recessed or surface j-box mounting configurations available
- UGR of zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg per CIE 117-1995 Discomfort Glare in Interior Lighting. [UGR FAQ](#)

#### Distribution



#### Superior Performance

Nominal Lumens	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000
Delivered Lumens	271	573	808	1001	1527	1994	2580	3110	3612	4120	4584	5045
Wattage	3.1	7.2	7.9	8.8	13.7	19.5	25.7	31.2	38.4	35.4	40.1	44.7
Lumens per Watt	87.4	79.6	102.3	113.8	111.5	102.3	100.4	99.7	94.1	116	114	113



### COMPLEMENTARY PRODUCTS

#### Coordinated Apertures | Multiple Layers of Light



General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

#### Core



Downlight



Adjustable



Open Wallwash



Lensed Wallwash



Cylinder



Pinhole



Bevel



Hyperbolic

#### Healthcare



MRI



Surgical Suite



Patient Room

#### Special Applications



Dynamic



Food Service



Vandal/Tamper



Clean Room



Shower



Steam Room

EVO4PC  
page 1 of 15

GOTHAM ARCHITECTURAL DOWNLIGHTING | 1400 Lester Road Conyers, GA 30012 | P 800-705-SERV (7378) | [gothamlighting.com](http://gothamlighting.com)  
© 2014-2024 Acuity Brands Lighting Inc. All Rights Reserved. Rev. 10/09/24 Specifications subject to change without notice.  
The product images shown are for illustration purposes only and may not be an exact representation of the product.



**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LS5**

Page 1 of 15

Luminaire Type:

Catalog Number:

EXAMPLE: EV04PC 35/15 AR MWD LSS MVOLT EZ1 JBXCC PCAN S12 DWHG

Series		Color Temperature		Lumens		Reflector Color		Reflector Finish		Distribution		Voltage	
EVO4PC	EVO 4in Pendant Stem Round Cylinder Open Downlight	27/	2700 K	02	250 lumens	AR	Clear	LSS	Semi-specular	MD	Medium (0.8 s/mh)	MVOLT	120V - 277V
		30/	3000 K	05	500 lumens	PR	Pewter	LD	Matte diffuse			120	120V
		35/	3500 K	07	750 lumens	WTR	Wheat	LS	Specular	MWD	Medium wide (1.0 s/mh)	277	277V
		40/	4000 K	10	1000 lumens	GR	Gold			WD	Wide (1.2 s/mh)	347 <sup>3</sup>	347V
		50/	5000 K	15	1500 lumens	WR <sup>1</sup>	White painted						
				20	2000 lumens	BR <sup>1</sup>	Black						
				25	2500 lumens	WRAMF <sup>1</sup>	White Anti-microbial						
				30	3000 lumens	BZR <sup>1</sup>	Dark Bronze painted						
				35	3500 lumens	TRALTB <sup>1,2</sup>	Trim RAL # TBD (TBD for pricing only)						
				40	4000 lumens								
				45	4500 lumens	TCPC <sup>1</sup>	Trim Custom Paint Color TBD (TBD for pricing only)						
				50	5000 lumens								

Driver <sup>4</sup>		Mounting		Canopy Type		Stem Length <sup>11</sup>	
GZ10	0-10V driver dims to 10%	JBX	Integral driver, Recessed or Surface J-Box	PCAN	5° Stem canopy with "hang straight" swivel	S2	2 foot 1/2" stem
GZ1	0-10V driver dims to 1%	JBXCC	Integral driver, Surface J-Box with Conduit Covers	PCAN45 <sup>10</sup>	45° Stem canopy with "hang straight" swivel	S4	4 foot 1/2" stem
EZ10	eldoLED 0-10V EC0drive. Linear dimming to 10% min.					S6	6 foot 1/2" stem
EZ1	eldoLED 0-10V EC0drive. Linear dimming to 1% min.	S8	8 foot 1/2" stem				
EZB	eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.	S10	10 foot 1/2" stem				
EDAB <sup>5</sup>	eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.	S12	12 foot 1/2" stem				
EDXB <sup>5,6,7</sup>	eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Min: 1000LM; Max: 4000LM.	SGBCC <sup>8,16</sup>	Surface Gear Box, Surface J-Box With Conduit Covers			S16	16 foot 1/2" stem
ECOD <sup>5</sup>	Lutron® EcoSystem® digital Hi-Lume 1% soft-on, fade to black. Max: 4000LM.	RGH <sup>9</sup>	Recessed Gear Housing			S20	20 foot 1/2" stem
ELV <sup>5</sup>	Electronic line voltage (120V only)						

Emergency Option		Control Interface <sup>12</sup>		Options		Architectural Colors - Powder Paint <sup>2</sup>			
(blank)	No emergency options	(blank)	No controls	90CRI	High CRI (90+)	DBB	Gloss Dark Bronze	DDBT	Textured Dark Bronze
E6W	6W integral emergency battery, CA Title 20 compliant emergency battery pack with integral test switch. Only available with GZ10, GZ1 and ELV Drivers. Only for use with 500-2500 lumen options. Not available with 1500 lumen option.	NLT	nLight® dimming pack. Specify 120V or 277V	CP <sup>14</sup>	Chicago Plenum. Specify 120V or 277V (requires RGH)	DBL	Matte Black	DBLB	Textured Black
		NLTER <sup>13</sup>	nLight® dimming pack for fixtures on emergency circuit. Specify 120V or 277V	HAO <sup>15</sup>	HAO High Ambient Option (40°C)	DWH	Gloss White	DWHG	Textured White
E7WCP	IOTA® 7W Constant Power emergency battery (sidecar). Only for use with 750-5000 lumen options.	NLTAIR2	nLight® AIR dimming pack. Specify 120V or 277V	N80 <sup>16</sup>	nLight Lumen Compensation	DMB	Matte Medium Bronze	DBNH	Textured Bronze
				SF	Single fuse. Specify 120V or 277V.	DNA	Gloss Natural Aluminum	DNAT	Textured Natural Aluminum
E10WCP	IOTA® 10W Constant Power, CA Title 20 compliant emergency battery pack with integral test switch. Only for use with 1000-5000 lumen options. (sidecar or RGH)	NLTAIRER2 <sup>13</sup>	nLight® AIR dimming pack for fixtures on emergency circuit. Specify 120V or 277V	WL <sup>17</sup>	Wet Location	DSS	Gloss Sandstone	DSST	Textured Sandstone
						DGC	Gloss Charcoal Grey	DSPD	Textured Dark Grey
E10WCPR	IOTA® 10W Constant Power, CA Title 20 compliant emergency battery pack with remote test switch. Only for use with 1000-5000 lumen options. (requires RGH)					DTG	Gloss Tennis Green	DSPE	Textured Green
						DBR	Gloss Bright Red	DSPH	Textured Light Red
E15WCP	IOTA® 15W Constant Power, CA Title 20 compliant emergency battery. Only for use with 1500-5000 lumen options. (sidecar)					DSB	Gloss Steel Blue	DWHAMF	Gloss White with Anti-microbial finish
								RALTB	Cylinder RAL # TBD (TBD for pricing only)
								CPC	Cylinder Custom Paint Color TBD (TBD for pricing only)
GTD	IOTA® Generator Transfer Device. Specify 120V or 277V (requires RGH)								



**ACCESSORIES — order as separate catalog numbers (shipped separately)**

<b>GCOLORS KIT</b>	Architectural colors chip kit, consisting of powder-coat and plated finishes
<b>CYLJBXADPT 4SQ20CT</b> ____	4in Square J-box to 4in Octagonal J-box adaptor. Replace ____ with Architectural Color or PRM for primed ready for field painting
<b>CYLSTBL KIT</b>	Stabilization Kit for securing pendant stem fixtures

**ORDERING NOTES**

- Not Available with Reflector Finishes.
- Replace with applicable RAL number and finish when ready to order. See [RAL BROCHURE](#) for available color options. For details on all Acuity Architectural paint colors, RAL and Custom colors, please see [Architectural Colors](#). Not available with emergency battery pack options.
- Factory supplied step down transformer must be remote mounted. Access required to location of remote mounted device.
- Refer to [Tech 240](#) for compatible dimmers.
- Not Available with Control Interfaces.
- Requires SGB, or SGBCC mounting option.
- Includes terminator resistor. Not available with 250-750 lumen packages.
- Only available with DMX driver (EDXB).
- Not available with E6W, E7W or E15WCP Emergency Options.
- Not available with SGB or SGBCC; those mountings require a flat ceiling.
- Stem section adjacent to cylinder can be cut in field to achieve non-uniform lengths (i.e. for a field cut 3' length, order 4' stem).
- Factory installed with RGH option otherwise field installed. Access required to location of remote mounted device.
- ER for use as UL924 Emergency Operation via power sense lead. Will require an emergency hot feed and normal hot feed. EM for use as UL924 Emergency Operation via power interrupt detection.
- CP not valid with NLTAIR2, NLTAIRER2 or emergency options.
- Only available up to 2500 lumens; not available with WL.
- Fixture begins at 80% light level. Must be specified with NLT or NLTER. Only available with EZ10 and EZ1 drivers.
- Not available with JBXCC, SGB, or SGBCC or sidecar Emergency Options. Max: 3000LM.





### Optical Assembly

Fully serviceable and upgradeable lensed LED light engine suitable for field maintenance or service from below the ceiling. Optical design is a Bounding Ray™ design with 45° cutoff to source and source image. Top down flash characteristic for superior glare control.

### Electrical

The luminaire shall operate from a 50 or 60 Hz  $\pm 3$  Hz AC line over a voltage ranging from 120 VAC to 277 VAC. Support 347V via remote-mounted stepdown transformer. The fluctuations of line voltage shall have no visible effect on the luminous output.

The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output.

Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages.

Input wires shall be 18AWG, 300V minimum solid copper.

All drivers are ROHS compliant.

### Controls

Luminaire shall be equipped with interface for nLight wired or nLight AIR networks with integral power supply as per specification.

### Emergency

Luminaires supplied with a battery pack comply with NFPA 101 (Life Safety code) and deliver constant light output throughout the 90 minutes of code required emergency operation period when there is a normal AC power loss.

Luminaires equipped with a generator transfer device work in conjunction with an auxiliary generator or a central inverter system to power fixtures for safe egress lighting.

### Dimming

The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 – 10%, 100 – 1.0% or 100 – 0.1% of rated lumen output with a smooth shut off function to step to 0%.

eldoLED LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered.

Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

### Construction

Heaving-gauge aluminum construction. Extruded cylinder body with flangeless reflector allows flow-through passive thermal management. Canopy matches cylinder in finish and diameter.

Pendant stem mount for installation to 4" recessed or surface octagonal junction box with integral driver.

Recessed gear box available for driver above ceiling, nLight, battery pack, CP, and GTD options.

Surface gear box available for driver at ceiling installation.

Optional field configurable conduit covers available. Conduit covers match cylinder in finish and diameter.

**WARNING: All pendant fixtures exposed to wind require tethering – see page 6.**

### Listings

Fixtures are CSA Certified to meet US and Canadian Standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, damp location standard; wet location (WL) optional, requires covered ceiling.

### Photometrics

LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours.

Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 6,000 hours and operate with a tolerance of <2.5 MacAdam ellipse as defined by the center of the quadrangles defined in ANSI C78.377-2015.

### Government Procurement

BAA - Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations

BABA - Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

### Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

### Note:

Actual performance may differ as a result of end user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provided consistent color appearance and out-of-the-box control capability with simple commissioning when used with Acuity Brands controls products.

All configurations of this luminaire are calibrated and tested meet the Acuity Brands' specification for chromatic consistency - including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates.

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).



EVO - eldoLED Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
EZ10	10%	Linear	Linear/Logarithmic
EZ1	1%	Linear	Linear/Logarithmic
EZB	<1%	Logarithmic	Linear
EDAB	<1%	Logarithmic*	Linear
EDXB	<1%	Square	Linear

\*Changable thorough DALI controller

Driver		Control Provided (note: 347V/UVOLT versions provided with 347 option selected)			
Nomenclature	Description	NLT	NLTER	NLTAIR2	NLTAIRER2
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2
GZ1	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2
EZ10	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2
EZ1	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2
EZB	eldoLED 0-10V SOLOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2

J-box Compatibility Matrix		Cylinder Configurations					
		JBX	SGB	SGBCC	SGB w/EDXB Driver	SGBCC w/EDXB Driver	JBXCC
Recommended J-box (by others)	4" Octagonal 4x4x1.5 deep	✓	✓	✓	✓	✓	✓
	4" Octagonal 4x4x2.125 deep	✓	✓	✗	✓	✗	✗
	4" Square 4x4x1.5 deep	*with adaptor plate accessory	*with adaptor plate accessory	✗	*with adaptor plate accessory	✗	✗

### Standard Architectural Color Options for Cylinder Bodies

 <b>DSS LITHONIA</b> Sandstone P12	 <b>DSST TEXTURED</b> Sandstone P90	 <b>DBR LITHONIA</b> Bright Red P34	 <b>DSPH TEXTURED</b> Light Red P80	 <b>DMB LITHONIA</b> Medium Bronze P11	 <b>DBNH TEXTURED</b> Bronze P74	 <b>DTG LITHONIA</b> Tennis Green P33	 <b>DSPE TEXTURED</b> Green P78
 <b>DSB LITHONIA</b> Steel Blue P49	 <b>DNA LITHONIA</b> Natural Aluminum P07	 <b>DNAT TEXTURED</b> Natural Aluminum P89	 <b>DGC LITHONIA</b> Charcoal Gray P32	 <b>DSPD TEXTURED</b> Dark Grey P77	 <b>ddb LITHONIA</b> Dark Bronze P50	 <b>DBBT TEXTURED</b> Dark Bronze P88	 <b>DBL LITHONIA</b> Black P13
 <b>DBLB TEXTURED</b> Black P75	 <b>DWH LITHONIA</b> White P21	 <b>DWHG TEXTURED</b> White P86					

NOTE: These colors were carefully reproduced to give as true a depiction as possible of finished product color. Some colors, however, may vary slightly from actual appearance due to display/printing variations and limitations. Please order the GCOLORS KIT listed in the 'Accessories' section of the spec sheet for an accurate paint chip sample.



#### Stabilization Kit (CYLSTBL KIT) Accessory

The Stabilization Kit offers additional support for applications where wind may be a factor and the pendant stem cylinder needs to be secured.

#### Cables

Three (3) 20 ft. 304 grade stainless steel aircraft cables with outer diameters of 1/16" are attached to anchoring mechanisms in the mounting surface at one end and the provided stem collar around the pendant stem at the other end.

Cables should be anchored 120° +/- 10° from each other radially and positioned at 45° or greater from the stem for optimal support of the fixture.

#### Clamps and Stem Collars

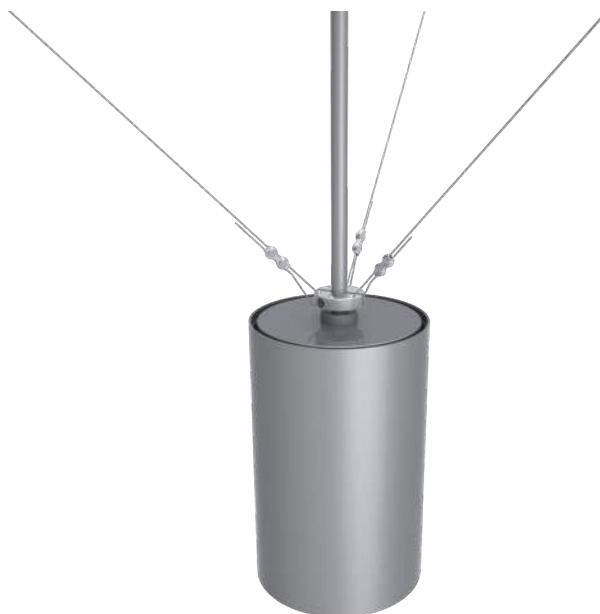
The stem collar consists of two (2) half stem collars made of 304 stainless steel. Both stem collar halves are attached around the pendant stem with 304 stainless steel socket head cap screws.

Six (6) cable clamps made of 304 stainless steel are used in the stabilization kit with two (2) clamps per cable attached to each anchoring point and the stem collar.

The cable tension can be adjusted from either end.

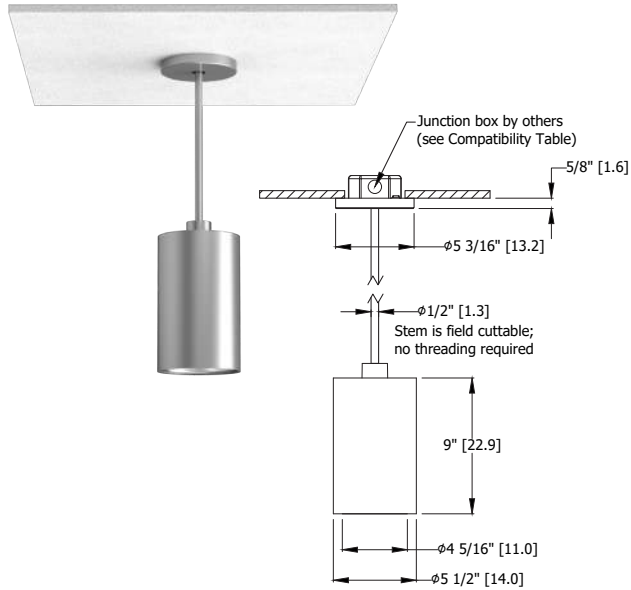
#### Wind Load

The Stabilization Kit is designed to withstand 90mph winds for 3 seconds comparable to ASCE 7-10, MRI 50-year (fixture EPA is 0.2 sq ft)

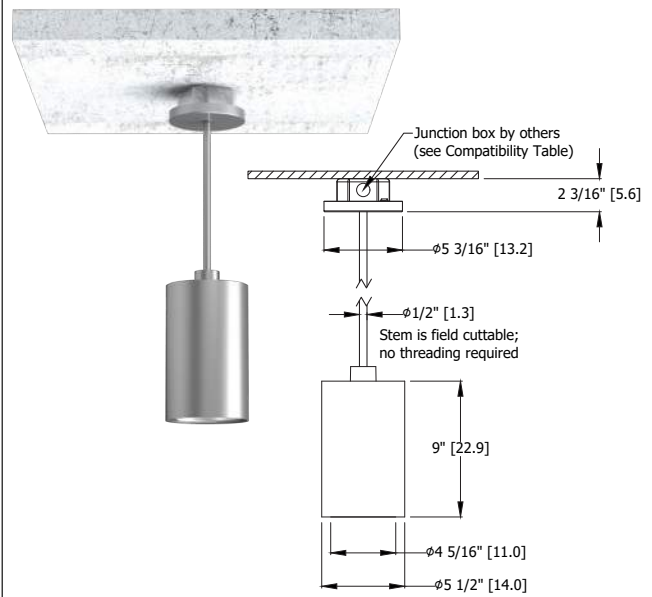


DIMENSIONAL DATA

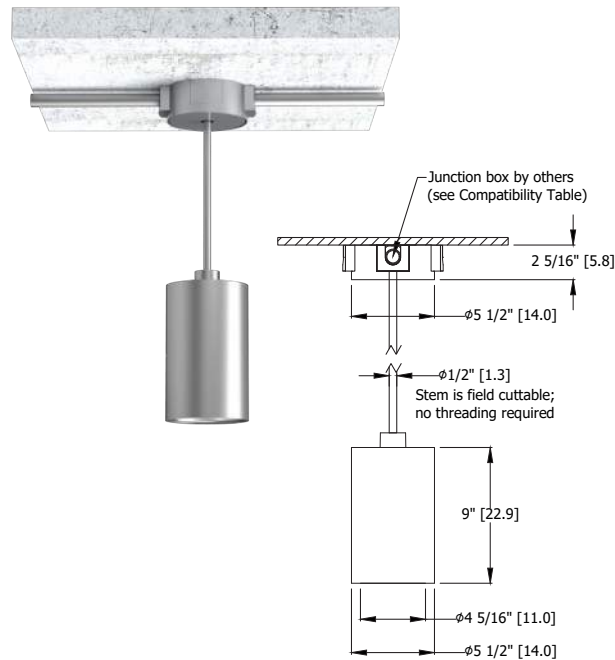
**JBX Recessed J-Box**



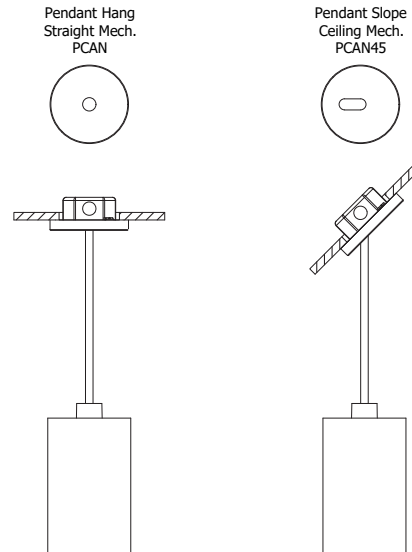
**JBX Surface J-Box**



**JBXCC Surface J-Box with Conduit Covers**



**Stem\_PCAN vs PCAN45**



\*Dimensions in inches [centimeters]

EVO4PC  
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155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

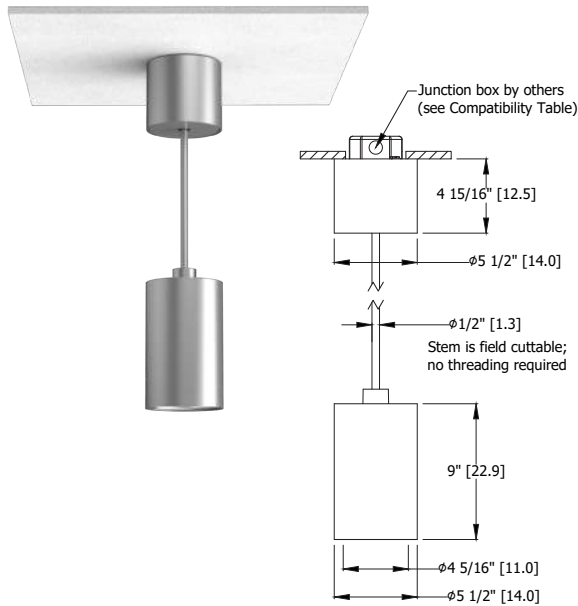
Fixture Type:

**LS5**

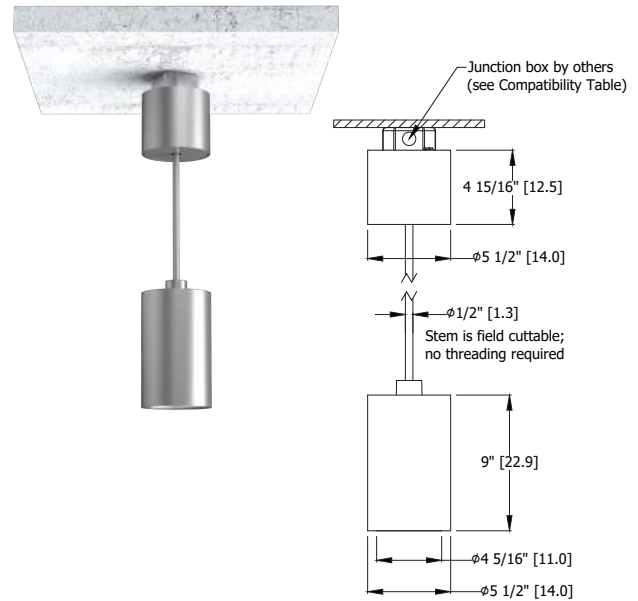
Page 7 of 15

DIMENSIONAL DATA

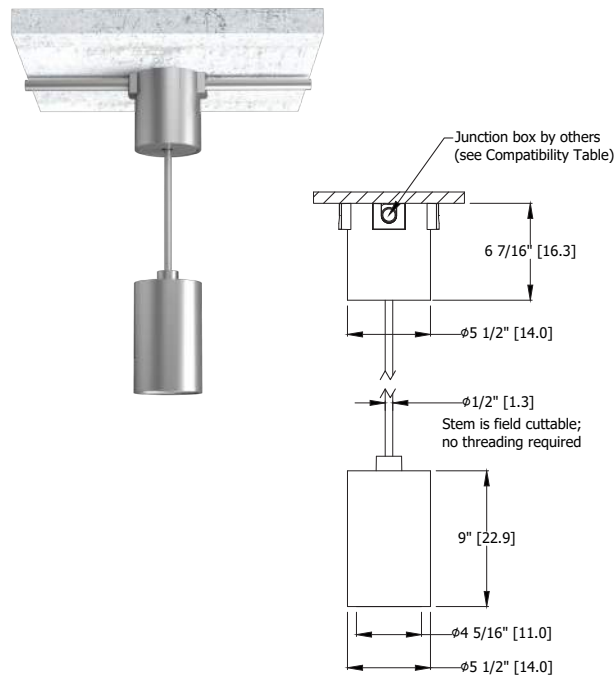
SGB Surface Gear Box for EDXB recessed J-box



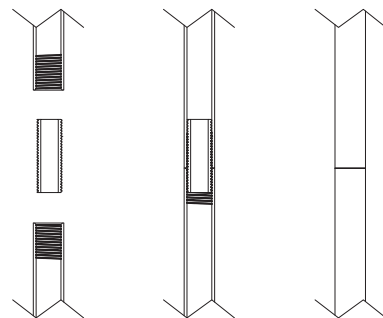
SGB Surface Gear Box for EDXB surface J-box



SGBCC Surface Gear Box for EDXB with Conduit Covers



Stem Connection Method



\*Dimensions in inches [centimeters]

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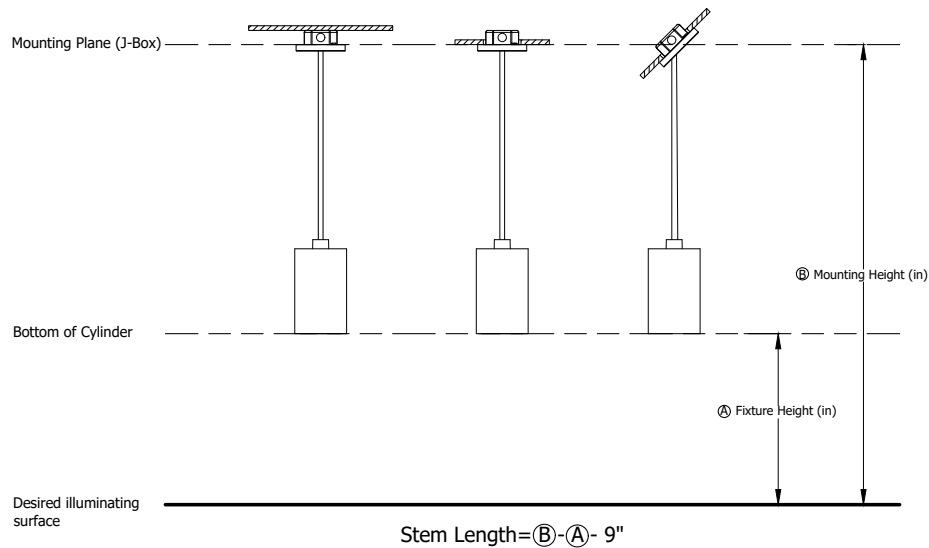
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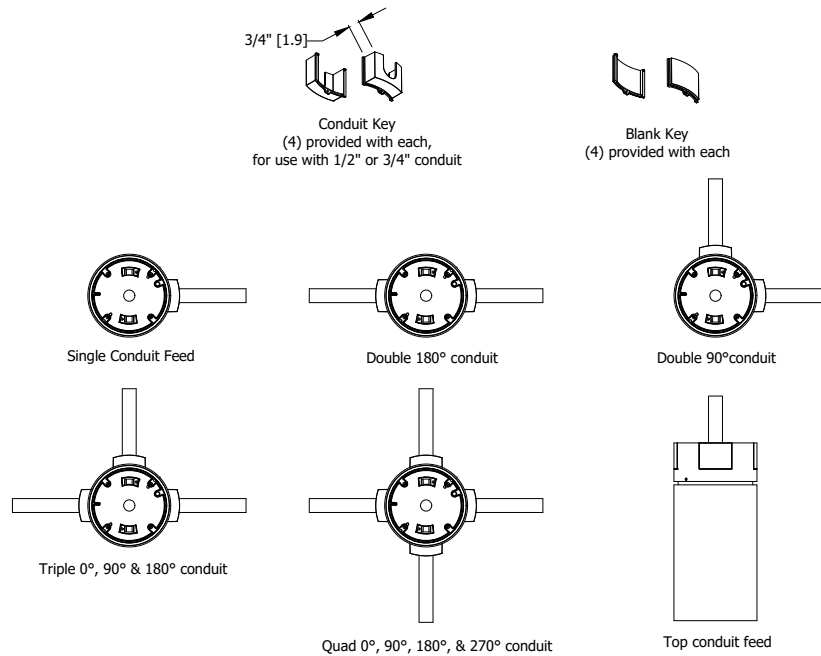
**LS5**

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Stem Cutting Formulas for JBX/JBXCC



Conduit Feed Examples and Keys



\*Dimensions in inches [centimeters]

EV04PC  
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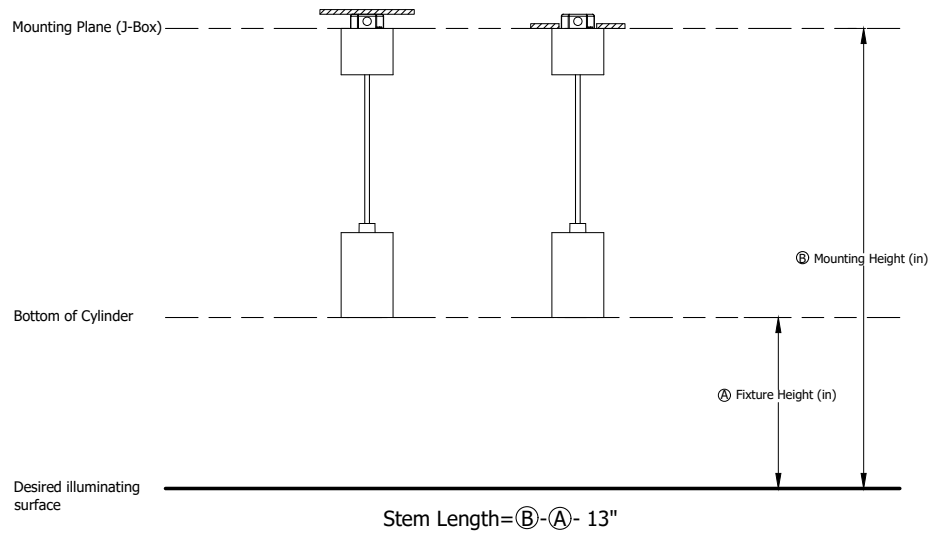
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Fixture Type:

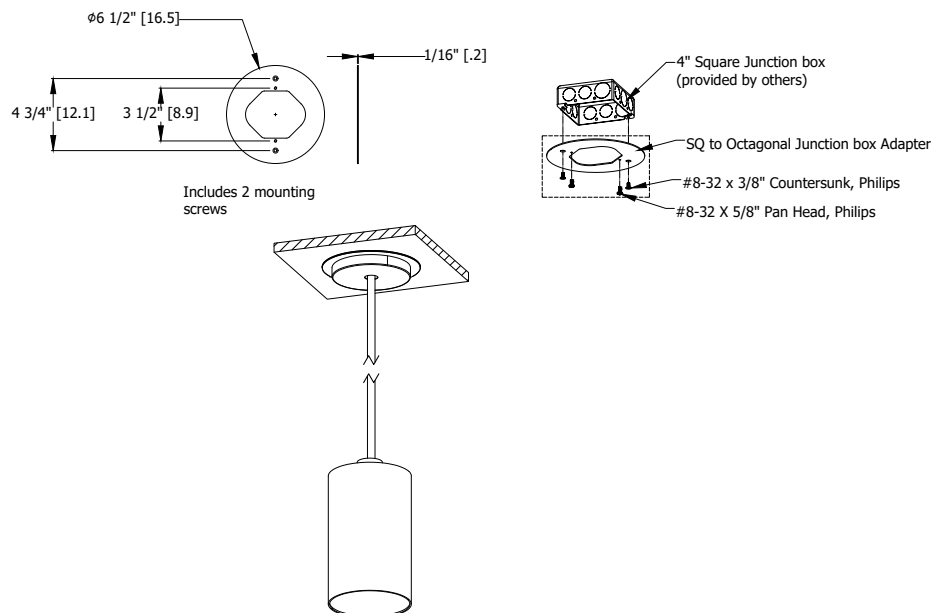
**LS5**

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Stem Cutting Formulas for SGB



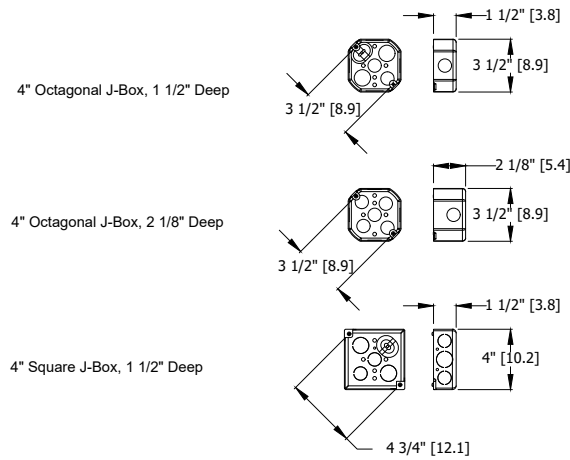
Cylinder Adaptor Plate



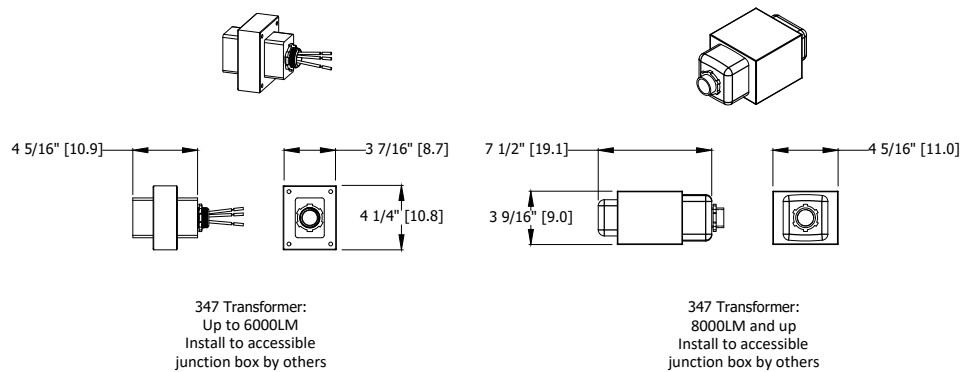
\*Dimensions in inches [centimeters]



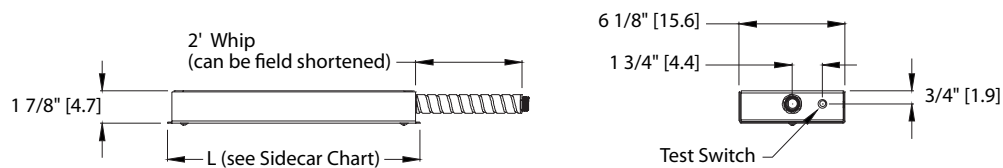
Junction Box Dimensions (by others)



347V Stepdown Transformer



Emergency Battery Sidecar Dimensions



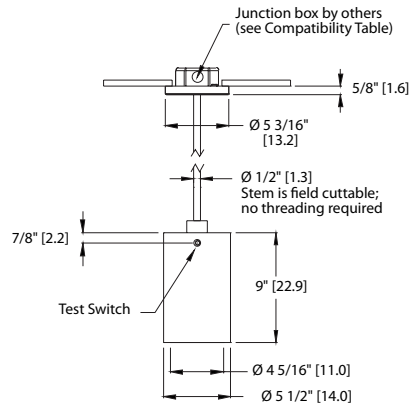
SIDECAR BATTERY OPTION	LUMEN PACKAGES AVAILABLE	L (SIDECAR LENGTH)
E7WCP	750LM AND GREATER EXCEPT AS NOTED BELOW	14"
	6000-8000LM	16"
	5000-8000LM WITH ECOD DRIVER	16"
E10WCP	1000LM AND GREATER EXCEPT AS NOTED BELOW	14"
	6000-8000LM	16"
	5000-8000LM WITH ECOD DRIVER	16"
E15WCP	1500LM AND GREATER	16"

\*Dimensions in inches [centimeters]

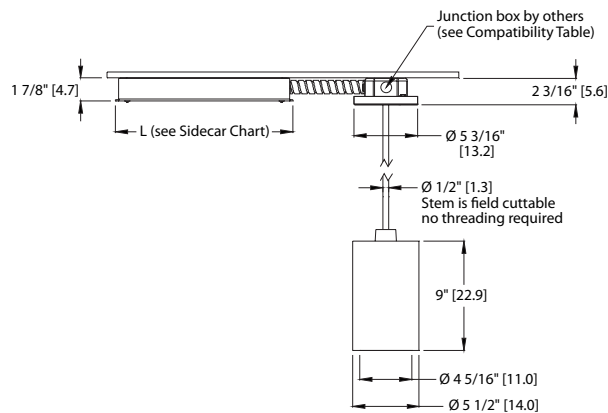




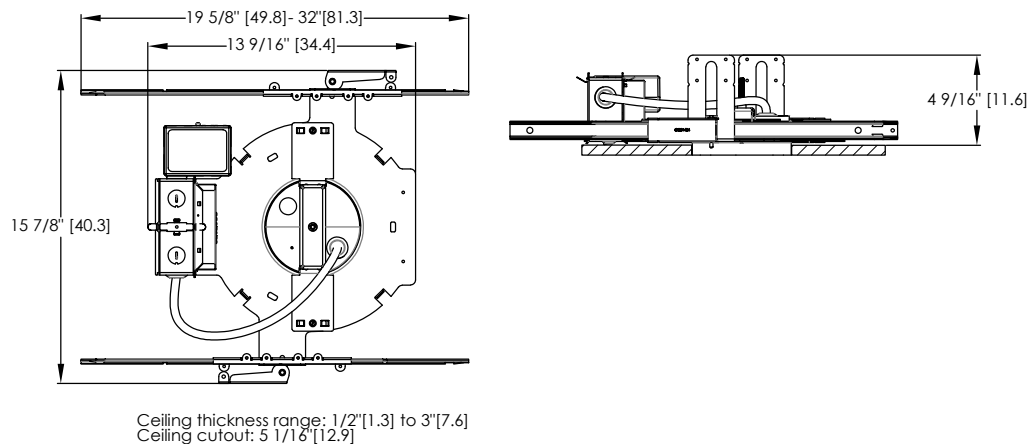
6W Integral Emergency Battery



7W/10W/15W Sidecar Emergency Battery



RGH Standard



Ceiling thickness range: 1/2\" [1.3] to 3\" [7.6]  
Ceiling cutout: 5 1/8\" [12.9]

\*Dimensions in inches [centimeters]

EV04PC  
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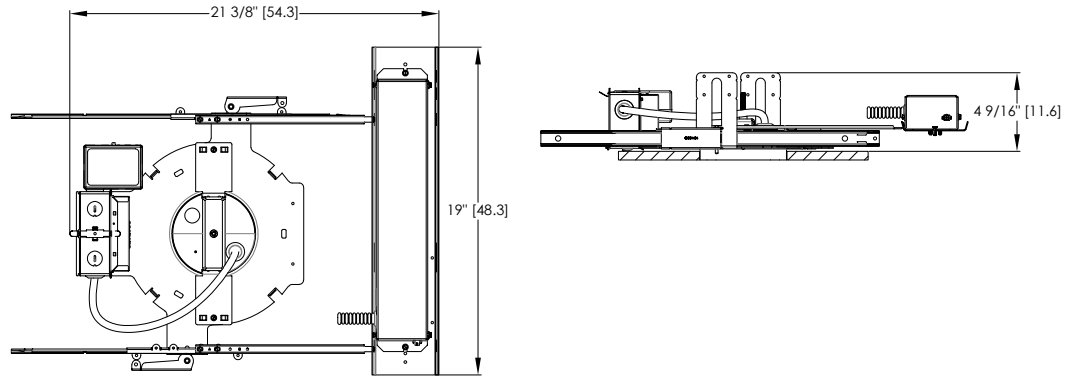
**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LS5**

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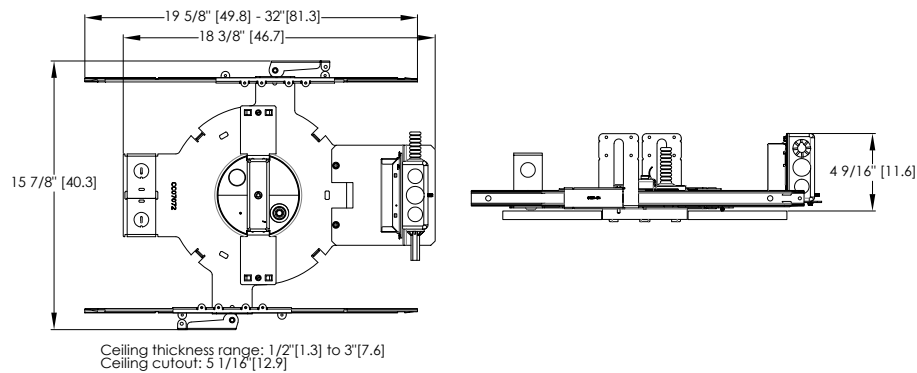
RGH with Battery Backup (E10WCPR/E10WCP) Standard



With Emergency Battery or GTD option

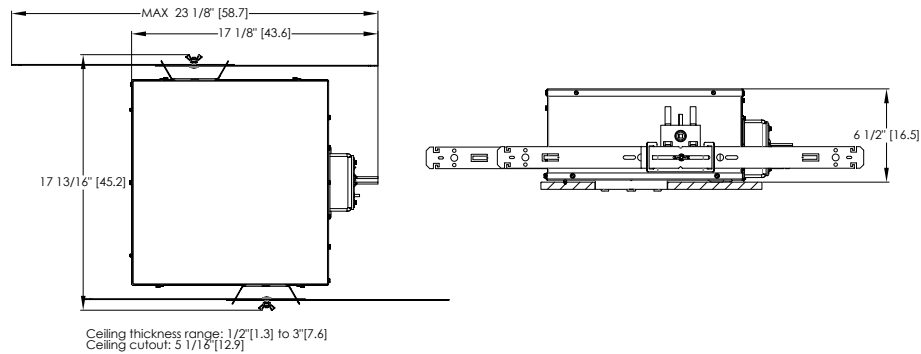
Minimum plenum height for emergency batteries in non-accessible ceilings: 12 1/2\"/>

RGH CP Standard



Ceiling thickness range: 1/2\"/>

RGH with Chicago Plenum (CP) for use with nLight Enclosed



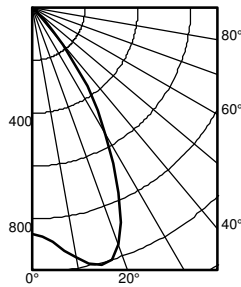
Ceiling thickness range: 1/2\"/>

\*Dimensions in inches [centimeters]



CONSULT [WWW.GOTHAMLIGHTING.COM](http://WWW.GOTHAMLIGHTING.COM) FOR ADDITIONAL PHOTOMETRY.

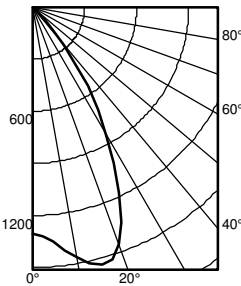
EV04PC 35/10 MWD LS INPUT WATTS: 8.8W, DELIVERED LUMENS: 1001.7LM, LPW = 113.8, 1.08 S/MH, TEST NO. LTL27786P



Ave	Lumens	Zone	Lumens	% Lamp
0	856	0° - 30°	717.4	71.6
5	888	0° - 40°	942.0	94.0
15	1010	0° - 60°	1000.8	99.9
25	775	0° - 90°	1001.7	100.0
35	363	90° - 180°	0.0	0.0
45	61	0° - 180°	1001.7	*100.0
55	2			
65	1			
75	0			
85	0			
90	0			

Initial FC					
Mounting Height	Center Beam	Diameter	FC	Diameter	FC
8.0	28.3	5.9	14.1	9.2	2.8
10.0	15.2	8.1	7.6	12.5	1.5
12.0	9.5	10.3	4.7	15.9	0.9
14.0	6.5	12.4	3.2	19.2	0.6
16.0	4.7	14.6	2.3	22.5	0.5

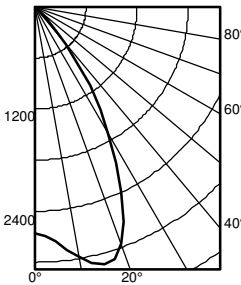
EV04PC 35/15 MWD LSS INPUT WATTS: 13.7W, DELIVERED LUMENS: 1527.3LM, LPW = 111.4, 1.08 S/MH, TEST NO. LTL27786P



Ave	Lumens	Zone	Lumens	% Lamp
0	1305	0° - 30°	1093.9	71.6
5	1354	0° - 40°	1436.2	94.0
15	1539	0° - 60°	1525.8	99.9
25	1181	0° - 90°	1527.3	100.0
35	553	90° - 180°	0.0	0.0
45	93	0° - 180°	1527.3	*100.0
55	2			
65	1			
75	0			
85	0			
90	0			

Initial FC					
Mounting Height	Center Beam	Diameter	FC	Diameter	FC
8.0	43.2	5.9	21.6	9.2	4.3
10.0	23.2	8.1	11.6	12.5	2.3
12.0	14.5	10.3	7.2	15.9	1.4
14.0	9.9	12.4	4.9	19.2	1.0
16.0	7.2	14.6	3.6	22.5	0.7

EV04PC 35/30 MWD LSS INPUT WATTS: 31.2W, DELIVERED LUMENS: 3110.6LM, LPW = 99.6, 1.08 S/MH, TEST NO. LTL27786P



Ave	Lumens	Zone	Lumens	% Lamp
0	2659	0° - 30°	2227.9	71.6
5	2758	0° - 40°	2925.0	94.0
15	3135	0° - 60°	3107.6	99.9
25	2406	0° - 90°	3110.6	100.0
35	1126	90° - 180°	0.0	0.0
45	189	0° - 180°	3110.6	*100.0
55	5			
65	2			
75	0			
85	0			
90	0			

Initial FC					
Mounting Height	Center Beam	Diameter	FC	Diameter	FC
8.0	87.9	5.9	43.9	9.2	8.8
10.0	47.3	8.1	23.6	12.5	4.7
12.0	29.5	10.3	14.7	15.9	2.9
14.0	20.1	12.4	10.1	19.2	2.0
16.0	14.6	14.6	7.3	22.5	1.5

Distributions		
Nomenclature	Beam Angle	Field Angle
MD	54	82
MWD	67	89
WD	71	92

Lumen Output Multiplier		
CRI	CCT	Multiplier
80	2700K	0.916
	3000K	0.948
	3500K	1
	4000K	1.032
	5000K	1.1
90	2700K	0.748
	3000K	0.8
	3500K	0.838
	4000K	0.845
	5000K	0.945

Reflector Finish Multiplier	
Reflector Finish	Multiplier
LS - Specular	1
LSS - Semi Specular	0.956
WR - White	0.87
LD - Matte Diffuse	0.85
BR - Black	0.73
BZR - Bronze	0.73



NLIGHT AIR

**nLight® AIR** is the ideal solution for retrofit or new construction spaces where adding communication wiring is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each EVO Luminaire ordered with the NLTAIR option. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.

**nLight® AIR Control Accessories**

Order as separate catalog number. Visit [nLight AIR](#).

Wall Switches	Model Number
On/Off single pole	rPODB (color) G2
On/Off two pole	rPODB 2P (color) G2
On/Off & raise/lower single pole	rPODB DX (color) G2
On/Off & raise/lower two pole	rPODB 2P DX (color) G2

**nLight® AIR Control Accessories (cont.)**

Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	rCMS 9 / rCMS PDT 9
Large motion 360°, ceiling	rCMS 10 / rCMS PDT 10

**UL924 Sequence of Operation**

The below information applies to all nLight AIR devices with an EM option.

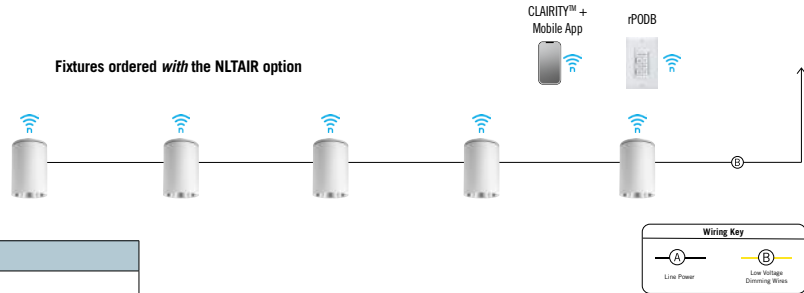
- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

**Possibilities for nLight® AIR**

**Fixtures ordered without the NLTAIR option**



**Fixtures ordered with the NLTAIR option**



NLIGHT

**nLight® Wired** The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

**nLight® Wired Control Accessories**

Order as separate catalog number. Visit [nLight](#).

Wall Switches	Model Number
On/Off single pole	nPODM (color)
On/Off two pole	nPODM 2P (color)
On/Off & raise/lower single pole	nPOD DX (color)
On/Off & raise/lower two pole	nPODM 2P DX (color)
Graphic touchscreen	nPOD GFX (color)

**Photocell Controls**

Dimming	nCM ADCX
---------	----------

**nLight® Wired Control Accessories (cont.)**

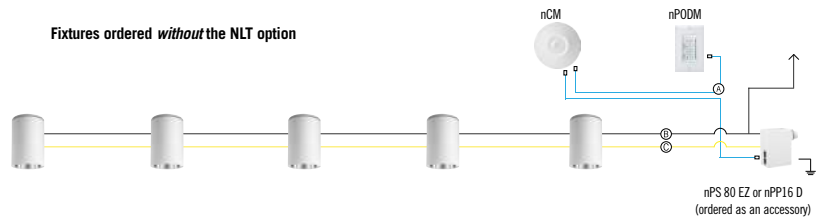
Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX

**Cat-5 Cables (plenum rated)**

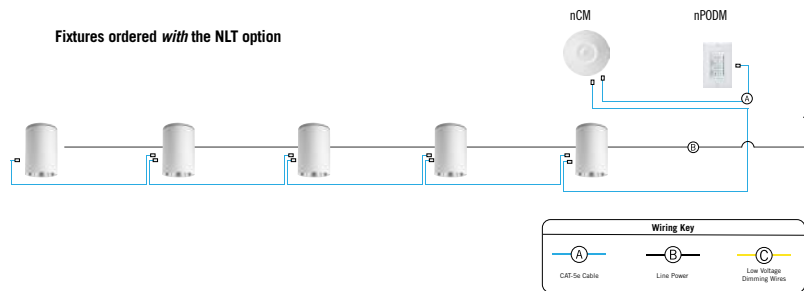
10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1

**Possibilities for nLight® wired**

**Fixtures ordered without the NLT option**



**Fixtures ordered with the NLT option**



Project:	Catalogue:	Type:
Notes:		

### Product Description

Commercial-grade, LED strip luminaire. Ideal for many applications requiring a low cost, small profile, lighting solution.

### Applications

Coves, Enclosed parking garages, Retail Shelving, Industrial Racks, Utility Areas



### Features

- Shallow design
- Surface or suspension mountable
- Available in nominal length of 24, 48, & 96 inches
- Continuous raceway and row-mounting capability
- 80+ CRI
- Standard low voltage dimming (0-10v)

### Featured Options

- Speedy hangers
- Aircraft cable set
- Emergency lighting battery pack

### Optical System

Standard units are supplied with frosted extruded micro-grooved round polycarbonate lens.

### Mounting

Mounting holes are provided. This product can be surface or suspension mounted.

### Construction

Die and brake-formed, code gauge, steel housing and ends. Knockouts are provided for conduit attachment.

### Finish

White, pre-painted housing.

### Electrical

Long life LEDs coupled with high efficiency drivers provide quality illumination. Rated to deliver L80 performance > 50,000 hours. Supplied with dimmable drivers (0-10v).

### Warranty

5 year limited warranty. For complete warranty, click here:



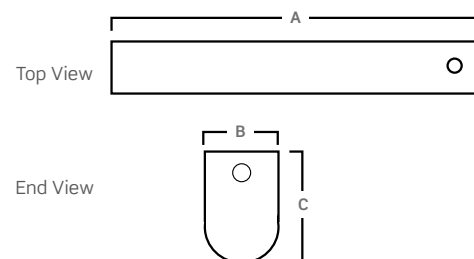
### Approvals

- Approved to CSA and UL standards.
- Tested in accordance to IESNA LM-79.
- Suitable for damp locations.
- DesignLights Consortium® Qualified.

All configurations may not be DLC qualified. Check [www.designlights.org/QPL](http://www.designlights.org/QPL) for qualified configurations.



### Dimensions



Size	A	B	C
24"	22 7/8"	2 1/16"	2 7/8"
48"	44 7/8"	2 1/16"	2 7/8"
96"	89 1/4"	2 1/16"	2 7/8"

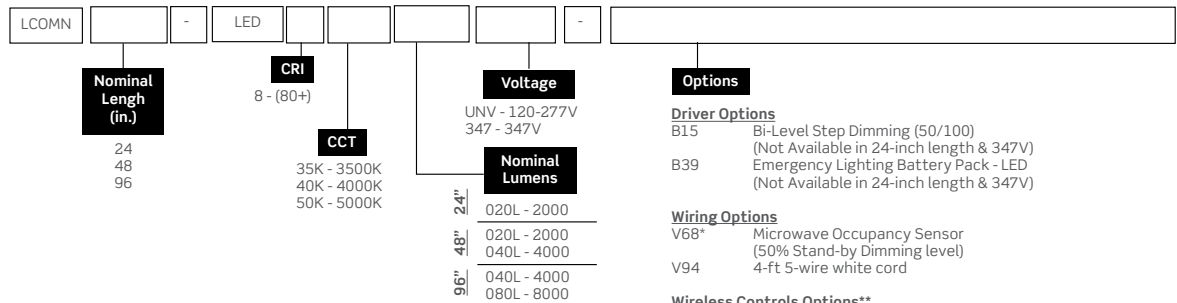
Consult installation guide for exact dimensions.



Project:	Catalogue:	Type:
Notes:		

**Order Key**

**EXAMPLE: LCOMN96-LED835K040LUNV**



\* Not to be used with step dimming (B15). Integrated sensor adds 2.5 inches to standalone fixture length.

\*\* Some controls may impact on standalone fixture length. Consult factory for exact dimensions.

Other options may be available, consult factory. Specifications and data subject to change without notice.

**Performance Data**

LED Performance Data				
Size	Nominal Lumens	Delivered Lumens	Watts	Lumens per Watt
24	2000	2037	14.4	141.2
48	2000	2059	13.7	150.8
	4000	4274	30.5	140.2
96	4000	4407	29.4	150.1
	8000	7982	56.4	150.1

Values based on 840K with standard lens at 25C

**Performance Scaling Factor**

	50K	40K	35K	30K
80CRI	1.000	1.000	0.960	0.946
90CRI	0.875	0.875	0.836	0.809

**Lifetime Expectancy**

	Calculated Hours	Reported Hours
L70	≥ 238,000	> 60,000
L80	≥ 149,000	> 60,000
L90	≥ 71,000	> 60,000

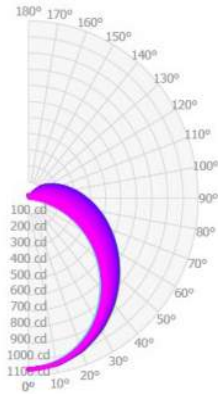
Mounted Accessories (Ordered Separately)	
KIT00001	Chain Set (2) 4ft w/ S-hooks.M10
KIT00002	Speedy Hangers (2).M23
KIT00003	Stem & Canopy Set 3/8"IP (2) 4ft.M26
KIT00043	Aircraft Cable & Canopy Set (2) 4ft.M48 (Cord not included with the kit)
KIT00044	Stem & Canopy Set Sloped Ceilings (2) 3ft.M29
KIT00045	Stem & Canopy Set Sloped Ceilings (2) 4ft.M29
KIT00046	Stem & Canopy Set Sloped Ceilings (2) 6ft.M29
KIT00047	Stem & Canopy Set 3/8"IP (2) 2ft.M26
KIT00048	Stem & Canopy Set 3/8"IP (2) 1ft.M26
KIT00050	Stem & Canopy Set 3/8"IP (2) 3ft.M26
KIT00053	Stem & Canopy Set 3/8"IP (2) 6ft.M26



Project:	Catalogue:	Type:
Notes:		

### Photometrics

IES File: **L COMN48-LED840K040LUNV**  
 Lumens: **4179**  
 Wattage: **31**  
 Eff cacy: **135**



### Zonal Lumen Summary

Zone	Lumens	%Fixture
0.0° - 30.0°	827	19.8%
0.0° - 40.0°	1364	32.6%
0.0° - 60.0°	2488	59.5%
0.0° - 90.0°	3641	87.1%
0.0° - 110.0°	3989	95.5%
0.0° - 130.0°	4137	99.0%
0.0° - 150.0°	4166	99.7%
0.0° - 170.0°	4177	100.0%
0.0° - 180.0°	4179	100.0%

### Coefficients of Utilization

pc	80%			70%			50%		
	70%	50%	30%	70%	50%	30%	70%	50%	30%
pw									
0	116	116	116	112	112	112	104	104	104
1	103	97	92	99	94	89	91	87	83
2	93	84	76	89	81	73	82	75	69
3	84	73	64	81	70	62	74	65	58
4	77	64	55	73	62	53	67	58	50
5	70	57	47	67	55	46	62	51	44
6	65	51	42	62	49	41	57	46	39
7	60	46	37	58	45	36	53	42	34
8	56	42	33	54	41	32	49	38	31
9	52	38	30	50	37	29	46	35	28
10	49	35	27	47	34	27	43	32	26

### Average Luminance Table (cd/m2)

	0.00°	45.00°	90.00°
0.00°	18257	18257	18257
45.00°	16045	13336	13218
55.00°	14944	12320	12531
65.00°	13292	11448	12054
75.00°	10377	10871	11884
85.00°	4558	10900	12249

Effective Floor Cavity Reflectance: 20%



Lighting Fixture Type Not Used



**ALULA Lighting Design**

155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LS7**

Page 1 of 1



# VIA 3 SURFACE

DIRECT

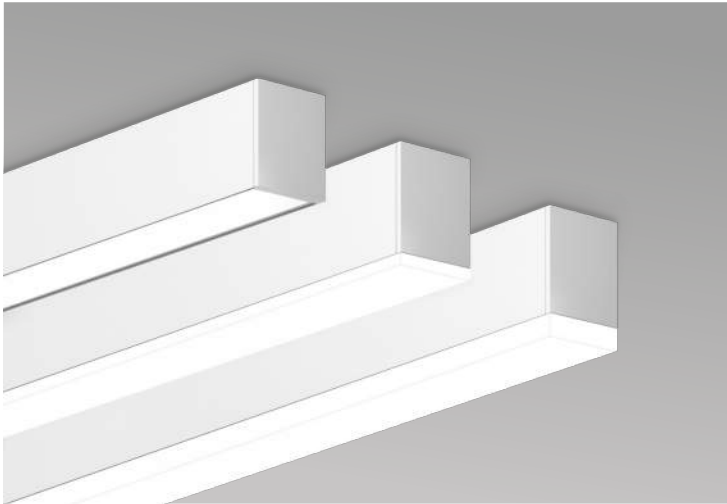
STATIC WHITE, BIOS ST/DY



Project: \_\_\_\_\_

Type: \_\_\_\_\_

## LUMENWERX



Lens Positions <sup>1</sup>

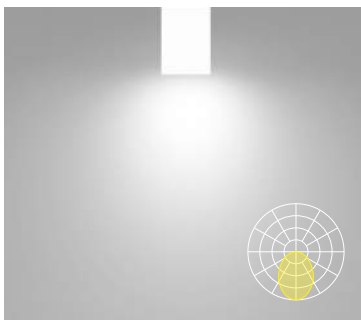
### DESCRIPTION

Our elegant, flexible Via family is composed of linear, pendant, surface, recessed, and wall mounted luminaires. Each lighting fixture can be installed as a discrete luminaire or in continuous runs or patterns. Via 3 Surface is offered with asymmetric, widespread, wall wash, low-glare, or grazing reflector optics.

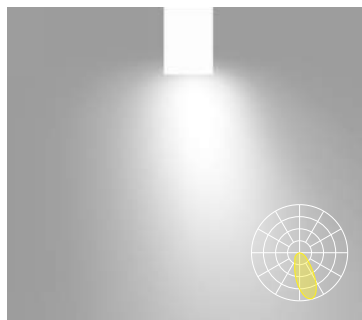
Up to 131 lm/W performance



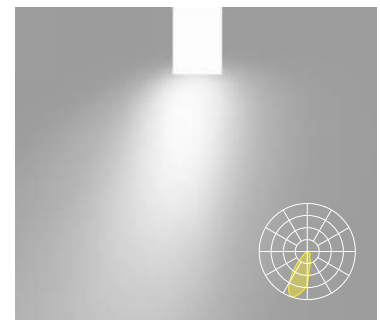
**SENSORS**  
For latest  
information  
on sensors,  
click [here](#).



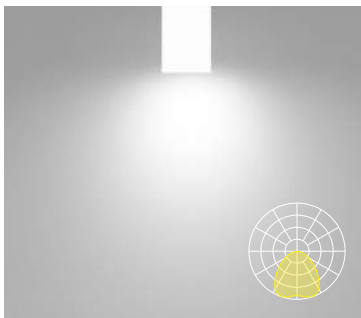
HLO  
High-Efficiency Lambertian Optic



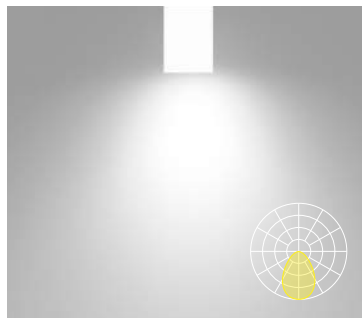
ARO2  
Asymmetric Refractive Optic



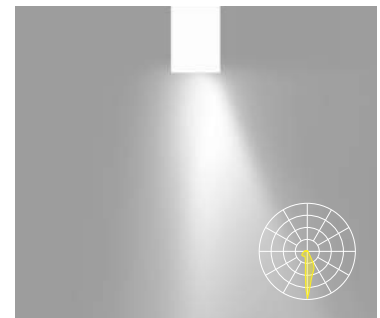
WRO2  
Wall Wash Refractive Optic



WDO  
Widespread Direct Optic



LGO  
Low-Glare Optic



GRO  
Grazing Reflector Optic

<sup>1</sup> Drop lens positions available with HLO only.

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9  
T (514) 225-4304 F (514) 931-4862  
[www.lumenwerx.com](http://www.lumenwerx.com)



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VIA3-SURFACE-SPEC-REV1 August 25, 2022



**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LS8 Series**

Page 1 of 6

# VIA 3 SURFACE

LUMENWERX

DIRECT  
STATIC WHITE, BIOS ST/DY

Project: \_\_\_\_\_  
Type: \_\_\_\_\_

## Order Guide

LUMINAIRE ID	DISTRIBUTION	OPTIC	LENS POSITION	LIGHT SOURCE <sup>3</sup>	CRI
<b>VIA3S</b>	<b>D</b>				
<b>VIA3S</b> - Via 3" Surface	<b>D</b> - Direct	<b>HLO</b> - High-Efficiency Lambertian Optic <b>ARO2</b> - Asymmetric Refractive Optic <b>WRO2</b> - Wall Wash Refractive Optic <b>WDO</b> - Widespread Direct Optic <b>LGO</b> - Low-Glare Optic <b>GRO</b> - Grazing Reflector Optic	<b>FH</b> <sup>1</sup> - Flush <b>0.5D</b> <sup>1</sup> - 0.5" drop <b>1.0D</b> <sup>1</sup> - 1.0" drop <b>NA</b> <sup>2</sup> - Not applicable  <sup>1</sup> Available with HLO only. <sup>2</sup> Specify NA for all optics except for HLO.	<b>SW</b> - Static white <b>BIOSST</b> <sup>4</sup> - Static biologically-optimized lighting <b>BIOSDY</b> <sup>4</sup> - Dynamic biologically-optimized lighting  <sup>3</sup> Chromawerx Sola, Duo and Quadro also available. Consult other spec sheets. <sup>4</sup> Only available with low and medium lumen packages.	<b>80</b> - 80 CRI <b>90</b> <sup>5</sup> - 90 CRI  <sup>5</sup> Not available with BIOS.

LUMEN PACKAGE (lm/ft)	COLOR TEMP.	LUMINAIRE LENGTH	VOLTAGE	DRIVER <sup>10</sup>																																										
<table border="1"> <thead> <tr> <th></th> <th>Hypo <sup>6</sup></th> <th>Low</th> <th>Med</th> <th>High</th> <th>Hyper <sup>7</sup></th> </tr> </thead> <tbody> <tr> <td>HLO</td> <td>350</td> <td>500</td> <td>750</td> <td>1000</td> <td>1200</td> </tr> <tr> <td>ARO2</td> <td>350</td> <td>500</td> <td>750</td> <td>1000</td> <td>1200</td> </tr> <tr> <td>WRO2</td> <td>350</td> <td>500</td> <td>750</td> <td>1000</td> <td>1200</td> </tr> <tr> <td>WDO</td> <td>350</td> <td>500</td> <td>750</td> <td>1000</td> <td>1200</td> </tr> <tr> <td>LGO</td> <td>350</td> <td>500</td> <td>750</td> <td>1000</td> <td>1200</td> </tr> <tr> <td>GRO</td> <td>350</td> <td>500</td> <td>750</td> <td>1000</td> <td>x</td> </tr> </tbody> </table> <sup>6</sup> Minimum 3' fixture. <sup>7</sup> Fixture will be very bright. Use in suitable applications.		Hypo <sup>6</sup>	Low	Med	High	Hyper <sup>7</sup>	HLO	350	500	750	1000	1200	ARO2	350	500	750	1000	1200	WRO2	350	500	750	1000	1200	WDO	350	500	750	1000	1200	LGO	350	500	750	1000	1200	GRO	350	500	750	1000	x	<b>27</b> <sup>8</sup> - 2700K <b>30</b> - 3000K <b>35</b> - 3500K <b>40</b> - 4000K  <sup>8</sup> Not available with BIOS.	<b>#FT#IN</b> - Specify nominal length (#) in 1' and/or 1" increments  <b>Standard nominal lengths:</b> Single units: 2' - 12' Continuous runs: lengths over 12'	<b>120</b> - 120V <b>277</b> - 277V <b>UNV</b> - 120V-277V <b>347</b> <sup>9</sup> - 347V  <sup>9</sup> Available with D1 only.	<b>D1</b> - 1% 0-10V <b>DA</b> <sup>11</sup> - DALI <b>LTEA2W</b> <sup>12</sup> - Lutron 1% - 2 wire FP 120V <b>LDE1</b> <sup>11</sup> - Lutron Hi-Lume 1% Eco <b>ELD1</b> - eldoLED 1% ECODrive 0-10V <b>ELDO</b> - eldoLED 0.1% SOLOdrive 0-10V  <sup>10</sup> PoE (Power-over-Ethernet) compatible. Consult factory for details. <sup>11</sup> On-site commissioning is required. <sup>12</sup> Available with 120V only.
	Hypo <sup>6</sup>	Low	Med	High	Hyper <sup>7</sup>																																									
HLO	350	500	750	1000	1200																																									
ARO2	350	500	750	1000	1200																																									
WRO2	350	500	750	1000	1200																																									
WDO	350	500	750	1000	1200																																									
LGO	350	500	750	1000	1200																																									
GRO	350	500	750	1000	x																																									

ELECTRICAL	ELECTRICAL SECTIONS (optional) <sup>16, 17</sup>	MOUNTING	FINISH
<b>1C</b> - 1 circuit <b>#MC</b> <sup>13</sup> - Multi circuit <b>EC</b> - Emergency-powered fixture <b>NL</b> - Night light fixture <b>DL</b> - Daylight fixture <b>GTD</b> <sup>14, 15</sup> - Generator transfer device fixture  <sup>13</sup> Specify total number of circuits (#), including any required for electrical section or COB options. Provide drawing or layout specifications. Minimum 4' section per circuit. <sup>14</sup> Minimum 4' fixture. <sup>15</sup> Not available with 347V.	<b>#EC##</b> <sup>18</sup> - Emergency-powered section <b>#NL##</b> <sup>18</sup> - Night light section <b>#DL##</b> <sup>18</sup> - Daylight section <b>#GTD##</b> <sup>18, 19, 20</sup> - Generator transfer device section <b>#EMB</b> <sup>20, 21</sup> - Emergency battery <b>NA</b> - None  <sup>16</sup> Specify with multi circuit (#MC) electrical option only. <sup>17</sup> Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. <sup>18</sup> Specify quantity (#), and section length in inches (##). <sup>19</sup> Minimum 4' section. <sup>20</sup> Not available with 347V. <sup>21</sup> Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section.	<b>DRC</b> - Drywall ceiling <b>GRD</b> - Grid ceiling	<b>W</b> - Matte white <b>AL</b> - Aluminum <b>B</b> - Matte black <b>CF#</b> - Custom finish, specify RAL#

CONTROL <sup>22</sup>	OPTIONS	LED DOWNLIGHT <sup>28</sup>	COB CRI	COB LUMEN PACK.	COB COLOR TEMP.
<b>STANDALONE CONTROLS</b> <sup>23, 24</sup> Specify the quantity (#) of sensors per fixture. <b>#OMS</b> <sup>25</sup> - Onboard Occupancy <b>#OMSX</b> <sup>26</sup> - Onboard Occupancy with bi-level dimming <b>#ODS</b> - Onboard Daylight <b>#OCS</b> - Onboard Occupancy & Daylight  <b>CONNECTED CONTROLS</b> <sup>27</sup> <b>LU</b> - Lutron <b>EN</b> - Enlighted <b>ENC</b> - Encelium <b>WL</b> - Cooper Wavelinx <b>AN</b> - Acuity nLight <b>CA</b> - Casambi <b>LG</b> - Legrand  <b>NA</b> - None  <sup>22</sup> Standalone and connected control options cannot be combined. <sup>23</sup> Available with D1 driver and 1 circuit options only. <sup>24</sup> Minimum 4' per zone. Provide control zone length. <sup>25</sup> Fixture turns off when no occupancy. <sup>26</sup> Fixture dims to specified light level % (X). <sup>27</sup> Consult factory for connected controls.	<b>FU120</b> - Fuse 120V <b>FU277</b> - Fuse 277V <b>NA</b> - None	<b>#COB20</b> - COB 20° <b>#COB30</b> - COB 30° <b>#COB40</b> - COB 40°  <sup>28</sup> Minimum 4' fixture and minimum 2' section per COB. Consult factory for other configurations.	<b>80</b> - 80 CRI <b>90</b> - 90 CRI <b>97</b> - 97 CRI	<b>600</b> - 600 lm <b>1200</b> - 1200 lm <b>1800</b> - 1800 lm	<b>27</b> - 2700K <b>30</b> - 3000K <b>35</b> - 3500K <b>40</b> - 4000K

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VIA3-SURFACE-SPEC-REV1 August 25, 2022



**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

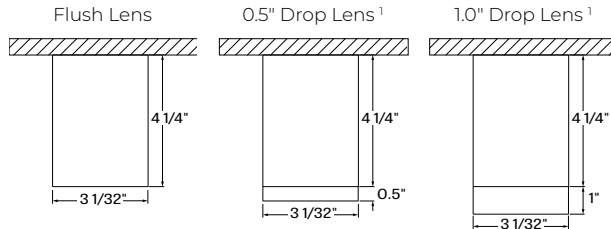
**LS8 Series**

# VIA 3 SURFACE

LUMENWERX

DIRECT  
STATIC WHITE, BIOS ST/DY

## Dimensions



<sup>1</sup> Drop lens positions available with HLO only.

## Photometrics

Delivered lumens at 35K at 80 CRI for all optics.

HLO (Flush Lens)	LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW	ARO2	LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
	350	1400	11.2	125		350	1400	12.1	116
	500	2000	16.2	123		500	2000	17.7	113
	750	3000	25.1	119		750	3000	27.9	107
	1000	4000	34.6	116		1000	4000	39.0	103
	1200	4800	42.5	113		1200	4800	48.3	99

WRO2	LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW	WDO	LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
	350	1400	12.1	116		350	1400	11.8	118
	500	2000	17.8	112		500	2000	17.2	116
	750	3000	28.0	107		750	3000	26.6	113
	1000	4000	39.1	102		1000	4000	36.6	109
	1200	4800	48.5	99		1200	4800	45.1	106

LGO	LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW	GRO	LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
	350	1400	13.0	108		350	1400	13	108
	500	2000	18.9	106		500	2000	19.2	104
	750	3000	29.4	102		750	3000	30.4	99
	1000	4000	40.6	98		1000	4000	42.3	95
	1200	4800	50.0	96					

### MULTIPLIER TABLES

Use these tables to get results for different color temperatures, CRI, and drop lenses.

#### Multiplier - CCT/CRI

CCT (K)	WATTS		LPW	
	CRI 80	CRI 90	CRI 80	CRI 90
2700	1.05	1.26	0.95	0.79
3000	1.01	1.23	0.99	0.81
3500	1.00	1.20	1.00	0.84
4000	1.00	1.17	1.00	0.85

#### Multiplier - Drop Lens

DIRECT LENS	WATTS	LPW
Flush Lens	1.00	1.00
Drop Lens 0.5"	0.98	1.02
Drop Lens 1.0"	0.96	1.04

### COB

Use these tables to get results for different color temperatures for all COB photometric tables.

#### COB Multiplier - CCT

CCT (K)	MULTIPLIER
2700	1.09
3000	1.03
3500	1.00
4000	0.98

#### COB Wattage

COB ANGLE	CRI 80						CRI 90					
	20	30	40	20	30	40	20	30	40	20	30	40
Lumen	600	1200	1800	600	1200	1800	600	1200	1800	600	1200	1800
Wattage	5.8	11.7	18.1	6.0	11.9	18.3	6.4	12.6	19.4	7.0	14.1	22.3

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9  
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VIA3-SURFACE-SPEC-REV1 August 25, 2022



# VIA 3 SURFACE

DIRECT

STATIC WHITE, BIOS ST/DY

## LUMENWERX

## Technical Specifications

### OPTICS

#### High-Efficiency Lambertian Optic (HLO)

The High-Efficiency Lambertian Optic (HLO) uses matte white reflectors to distribute LED output across 0.075" acrylic shielding, providing up to 88% transmission and good obscuration. Available as a flush lens or as a drop lens, the HLO has a spacing criterion of 1.10.

#### Asymmetric Refractive Optic (ARO2)

The Asymmetric Refractive Optic (ARO2) uses a sophisticated reflector combined with a matte beam-shaping film to create a smooth, effective downward light component without shadows or hot spots. It provides directional Gaussian light distribution with peak intensity at 20° above nadir and a 55° Full Width at Half Maximum (FWHM) beam angle. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

#### Wall Wash Refractive Optic (WRO2)

The Wall Wash Refractive Optic (WRO2) delivers smooth vertical illumination with a gentle gradient and soft visual cut-off. Its exacting configuration creates a strong downward light component without shadows or hot spots and provides light distribution with peak intensity at 21° above nadir. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

#### Widespread Direct Optic (WDO)

The Widespread Direct Optic (WDO) is designed to distribute light far and wide. As such, it has an excellent luminous efficacy, a light span that is 40% farther than that of our traditional HLO, and it maximizes spacing distance while still creating a sense of uniformity. The lens snaps into place and utilizes nano prismatic optics to mask the diodes that are actually emitting the light.

#### Low-Glare Optic (LGO)

The Low-Glare Optic (LGO) is designed to cut off high-angled light and control glare. The carefully crafted lens refracts light downward through its center from which it then disperses into a wide conical distribution that negates any illumination at about 40°. The LGO provides the visual comfort of a louver in a smooth acrylic lens.

#### Grazing Reflector Optic (GRO)

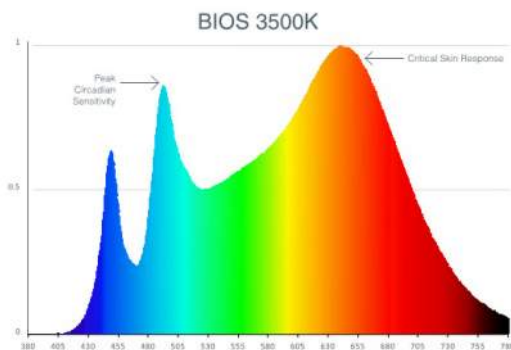
The Grazing Reflector Optic (GRO) is oriented to project light with maximum luminous intensity at 5° from nadir. This provides a tight beam to highlight and accentuate a wall with subtle vertical illumination.

### LIGHT SOURCE

Custom linear array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K and 4000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operate at reduced drive current to optimize efficacy and lumen maintenance. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.



BIOS SkyBlue™ Technology is designed to provide the specific circadian stimulus to improve overall sleep quality, recovery during the night, and overall feelings of well-being. The non-visual light signals that stimulate our circadian system have peak intensity in the "sky blue" region. As the diagram below illustrates, BIOS SkyBlue technology shifts the peak LED spectral intensity (490 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.



### LUMINAIRE LENGTH

Via 3 is available in standard lengths of 2' to 12'. Continuous runs are available for run lengths over 12'. Exact run length must be noted in the product code. The minimum length is 2', and can be ordered in 1' and/or 1" increments. All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.



# VIA 3 SURFACE

# LUMENWERX

DIRECT

STATIC WHITE, BIOS ST/DY

## ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% (specify 2-wire, or Ecosystem Dim-to-Off), eldoLED 1% ECODrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

## PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, Duo (tunable white), Quadro (RGBW) emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

## ELECTRICAL SECTION OPTIONS

Electrical section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional electrical sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

## Electrical sections

Options include emergency-powered (#EC##), night light (#NL##), daylight (#DL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in inches (##).

Example 1: A 32' Direct fixture with two 8' emergency-powered sections on a second circuit.

Code: 2MC-2EC96

Example 2: A 24' Direct fixture with one 4' generator transfer device section.

Code: 1MC-1GTD48

## Battery

Each emergency battery (#EMB) powers a 4' section. All batteries will be on the same circuit. Specify the number of batteries (#) required.

Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours.

## MOUNTING OPTIONS

Fixtures can be mounted directly to T-Bar, drywall and hard surface ceilings, hardware supplied by others. Long runs require a minimum distance of 6" from the vertical wall.

## FINISH

**Interior** - 95%, reflective matte powder coated white paint

**Exterior** - Matte white, matte black, or aluminum powder coating. Custom finishes are also available.

## CONTROLS

Lumenwerx offers several options for integrating occupancy and daylight harvesting controls in our luminaires.

For latest information on sensors, click [here](#).



## STANDALONE CONTROLS

An integrated standalone sensor controls the luminaire in which it is installed. Depending on the length, more than one sensor may be necessary and may control the entire luminaire, or just a section of it. These controls operate independently. Unless otherwise agreed, sensor location, blank size, and functionality of the sensor within the luminaire are selected by Lumenwerx. See client drawings for details.

Three types are available:

**OMS:** An integral Passive InfraRed (PIR) sensor turns luminaires on and off automatically with field-adjustable time out period. No wall control is used. Coverage pattern for large motion has a 12' diameter with the sensor mounted 8' above the floor; for small motion, the pattern has an 8' diameter. Typically, one sensor is required for every 10' of a continuous luminaire run.

**ODS:** An integral, daylight harvesting sensor with closed-loop operation dims the luminaire in which it is installed in order to compensate for available daylight. The sensor measures the combination of daylight and luminaire light reflected from horizontal surfaces below the luminaire. Initial onsite calibration is required via the use of provided remote control.

**OCS:** Both an occupancy and a daylight sensor are installed in the luminaire.



# VIA 3 SURFACE

DIRECT

STATIC WHITE, BIOS ST/DY

## LUMENWERX

### CONNECTED CONTROLS

With connected controls, sensors or nodes installed in the luminaire form part of a larger control system infrastructure from manufacturers such as: Lutron, Enlighted, Encelium, Cooper Wavelinx, Acuity nLight, Casambi, Legrand, and others. These connected controls allow for a scalable system providing features like occupancy and daylight control, manual control, scheduling and configuration of various zones and scenes. Energy reporting and system monitoring are also possible. Specific capabilities depend on the control system being used.

Lumenwerx installs the components (sensors, nodes, power packs, etc) which may be supplied to us by a third party, or procured directly by Lumenwerx, depending on the control system manufacturer.

Lumenwerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.

To indicate a Lumenwerx luminaire with connected controls, identify the specific onsite control system to be integrated into the luminaires using the ordering code. Due to the diversity of components, you must contact factory to assure complete compatibility with intended control system and to fully specify the luminaire.

Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for Lumenwerx to create shop drawings and submittals.

### COB

Fixtures with Chip On Board (COB) technology are able to provide a maximum output of 1800 lumens from a discrete 50mm aperture on 8 inch centers. Standard CRI is 80, for 90 and 97 CRI with elevated R9 values please consult factory. Standard 20°, 30° and 40° beam angles are available, as are custom angles with prior factory approval. All our Chip On Board products have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 50,000 hours.



Chip On Board (COB)

### CONSTRUCTION

**Housing** - Extruded aluminum, up to 90% recycled content

**Interior brackets** - Die-formed cold rolled sheet steel

**Joining system** - Die-cast zinc

**Reflectors** - Cold rolled steel die-formed, 95% reflective matte white painted

**Lens** - Acrylic or polycarbonate

**Drop lens** - Extruded with glued end caps

**End caps** - Die-cast aluminum

### WEIGHT

**Via 3 4ft** - 11.12 lbs - 5.05 kg

**Via 3 8ft** - 22.25 lbs - 10.1 kg

**Via 3 12ft** - 33.48 lbs - 15.2 kg

### CERTIFICATIONS

**ETL** - Rated for Indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0

**DLC** - Certain configurations have been DLC certified. Consult factory for details.

### WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.



# VIA 3 SURFACE

DIRECT

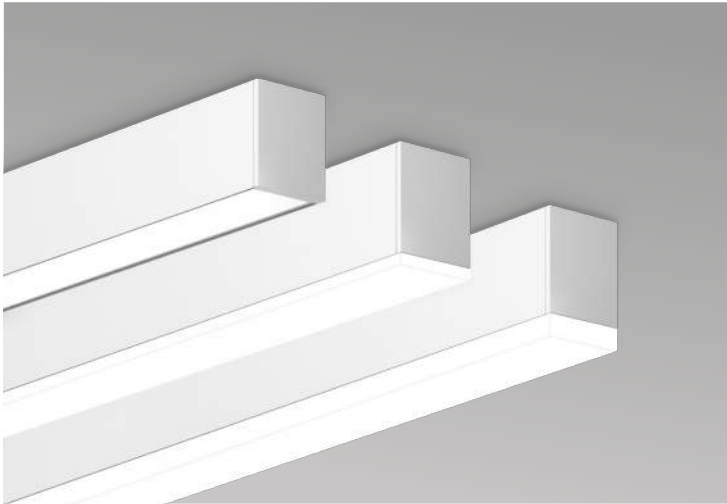
STATIC WHITE, BIOS ST/DY



Project: \_\_\_\_\_

Type: \_\_\_\_\_

## LUMENWERX



Lens Positions <sup>1</sup>

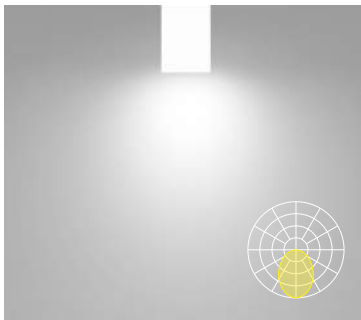
### DESCRIPTION

Our elegant, flexible Via family is composed of linear, pendant, surface, recessed, and wall mounted luminaires. Each lighting fixture can be installed as a discrete luminaire or in continuous runs or patterns. Via 3 Surface is offered with asymmetric, widespread, wall wash, low-glare, or grazing reflector optics.

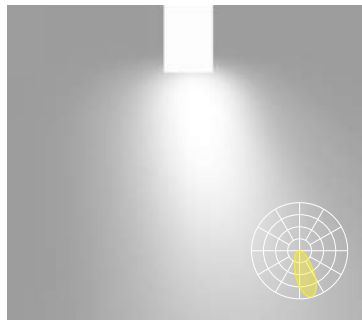
Up to 131 lm/W performance



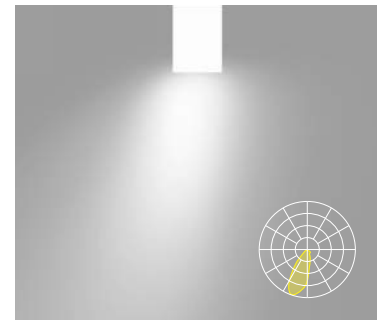
**SENSORS**  
For latest  
information  
on sensors,  
click [here](#).



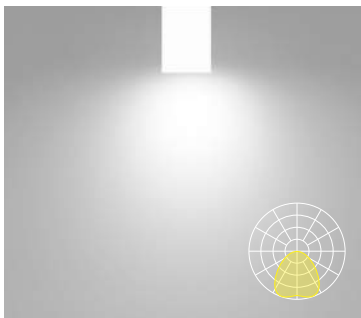
HLO  
High-Efficiency Lambertian Optic



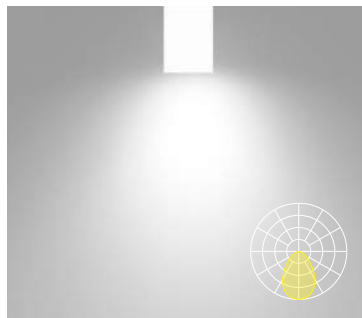
ARO2  
Asymmetric Refractive Optic



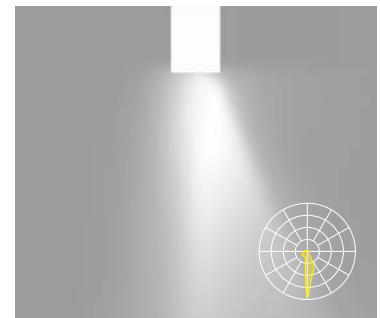
WRO2  
Wall Wash Refractive Optic



WDO  
Widespread Direct Optic



LGO  
Low-Glare Optic



GRO  
Grazing Reflector Optic

<sup>1</sup> Drop lens positions available with HLO only.

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VIA3-SURFACE-SPEC-REV1 August 25, 2022



**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LS9 Series**

Page 1 of 6

# VIA 3 SURFACE

LUMENWERX

DIRECT  
STATIC WHITE, BIOS ST/DY

Project: \_\_\_\_\_  
Type: \_\_\_\_\_

## Order Guide

LUMINAIRE ID	DISTRIBUTION	OPTIC	LENS POSITION	LIGHT SOURCE <sup>3</sup>	CRI
<b>VIA3S</b>	<b>D</b>				
<b>VIA3S</b> - Via 3" Surface	<b>D</b> - Direct	<b>HLO</b> - High-Efficiency Lambertian Optic <b>ARO2</b> - Asymmetric Refractive Optic <b>WRO2</b> - Wall Wash Refractive Optic <b>WDO</b> - Widespread Direct Optic <b>LGO</b> - Low-Glare Optic <b>GRO</b> - Grazing Reflector Optic	<b>FH</b> <sup>1</sup> - Flush <b>0.5D</b> <sup>1</sup> - 0.5" drop <b>1.0D</b> <sup>1</sup> - 1.0" drop <b>NA</b> <sup>2</sup> - Not applicable  <sup>1</sup> Available with HLO only. <sup>2</sup> Specify NA for all optics except for HLO.	<b>SW</b> - Static white <b>BIOSST</b> <sup>4</sup> - Static biologically-optimized lighting <b>BIOSDY</b> <sup>4</sup> - Dynamic biologically-optimized lighting  <sup>3</sup> Chromawerx Sola, Duo and Quadro also available. Consult other spec sheets. <sup>4</sup> Only available with low and medium lumen packages.	<b>80</b> - 80 CRI <b>90</b> <sup>5</sup> - 90 CRI  <sup>5</sup> Not available with BIOS.

LUMEN PACKAGE (lm/ft)	COLOR TEMP.	LUMINAIRE LENGTH	VOLTAGE	DRIVER <sup>10</sup>																																										
<table border="1"> <thead> <tr> <th></th> <th>Hypo <sup>6</sup></th> <th>Low</th> <th>Med</th> <th>High</th> <th>Hyper <sup>7</sup></th> </tr> </thead> <tbody> <tr> <td>HLO</td> <td>350</td> <td>500</td> <td>750</td> <td>1000</td> <td>1200</td> </tr> <tr> <td>ARO2</td> <td>350</td> <td>500</td> <td>750</td> <td>1000</td> <td>1200</td> </tr> <tr> <td>WRO2</td> <td>350</td> <td>500</td> <td>750</td> <td>1000</td> <td>1200</td> </tr> <tr> <td>WDO</td> <td>350</td> <td>500</td> <td>750</td> <td>1000</td> <td>1200</td> </tr> <tr> <td>LGO</td> <td>350</td> <td>500</td> <td>750</td> <td>1000</td> <td>1200</td> </tr> <tr> <td>GRO</td> <td>350</td> <td>500</td> <td>750</td> <td>1000</td> <td>x</td> </tr> </tbody> </table> <sup>6</sup> Minimum 3' fixture. <sup>7</sup> Fixture will be very bright. Use in suitable applications.		Hypo <sup>6</sup>	Low	Med	High	Hyper <sup>7</sup>	HLO	350	500	750	1000	1200	ARO2	350	500	750	1000	1200	WRO2	350	500	750	1000	1200	WDO	350	500	750	1000	1200	LGO	350	500	750	1000	1200	GRO	350	500	750	1000	x	<b>27</b> <sup>8</sup> - 2700K <b>30</b> - 3000K <b>35</b> - 3500K <b>40</b> - 4000K  <sup>8</sup> Not available with BIOS.	<b>#FT#IN</b> - Specify nominal length (#) in 1' and/or 1" increments  <b>Standard nominal lengths:</b> Single units: 2' - 12' Continuous runs: lengths over 12'	<b>120</b> - 120V <b>277</b> - 277V <b>UNV</b> - 120V-277V <b>347</b> <sup>9</sup> - 347V  <sup>9</sup> Available with D1 only.	<b>D1</b> - 1% 0-10V <b>DA</b> <sup>11</sup> - DALI <b>LTEA2W</b> <sup>12</sup> - Lutron 1% - 2 wire FP 120V <b>LDE1</b> <sup>11</sup> - Lutron Hi-Lume 1% Eco <b>ELD1</b> - eldoLED 1% ECODrive 0-10V <b>ELDO</b> - eldoLED 0.1% SOLOdrive 0-10V  <sup>10</sup> PoE (Power-over-Ethernet) compatible. Consult factory for details. <sup>11</sup> On-site commissioning is required. <sup>12</sup> Available with 120V only.
	Hypo <sup>6</sup>	Low	Med	High	Hyper <sup>7</sup>																																									
HLO	350	500	750	1000	1200																																									
ARO2	350	500	750	1000	1200																																									
WRO2	350	500	750	1000	1200																																									
WDO	350	500	750	1000	1200																																									
LGO	350	500	750	1000	1200																																									
GRO	350	500	750	1000	x																																									

ELECTRICAL	ELECTRICAL SECTIONS (optional) <sup>16, 17</sup>	MOUNTING	FINISH
<b>1C</b> - 1 circuit <b>#MC</b> <sup>13</sup> - Multi circuit <b>EC</b> - Emergency-powered fixture <b>NL</b> - Night light fixture <b>DL</b> - Daylight fixture <b>GTD</b> <sup>14, 15</sup> - Generator transfer device fixture  <sup>13</sup> Specify total number of circuits (#), including any required for electrical section or COB options. Provide drawing or layout specifications. Minimum 4' section per circuit. <sup>14</sup> Minimum 4' fixture. <sup>15</sup> Not available with 347V.	<b>#EC##</b> <sup>18</sup> - Emergency-powered section <b>#NL##</b> <sup>18</sup> - Night light section <b>#DL##</b> <sup>18</sup> - Daylight section <b>#GTD##</b> <sup>18, 19, 20</sup> - Generator transfer device section <b>#EMB</b> <sup>20, 21</sup> - Emergency battery <b>NA</b> - None  <sup>16</sup> Specify with multi circuit (#MC) electrical option only. <sup>17</sup> Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. <sup>18</sup> Specify quantity (#), and section length in inches (##). <sup>19</sup> Minimum 4' section. <sup>20</sup> Not available with 347V. <sup>21</sup> Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section.	<b>DRC</b> - Drywall ceiling <b>GRD</b> - Grid ceiling	<b>W</b> - Matte white <b>AL</b> - Aluminum <b>B</b> - Matte black <b>CF#</b> - Custom finish, specify RAL#

CONTROL <sup>22</sup>	OPTIONS	LED DOWNLIGHT <sup>28</sup>	COB CRI	COB LUMEN PACK.	COB COLOR TEMP.
<b>STANDALONE CONTROLS</b> <sup>23, 24</sup> Specify the quantity (#) of sensors per fixture. <b>#OMS</b> <sup>25</sup> - Onboard Occupancy <b>#OMSX</b> <sup>26</sup> - Onboard Occupancy with bi-level dimming <b>#ODS</b> - Onboard Daylight <b>#OCS</b> - Onboard Occupancy & Daylight  <b>CONNECTED CONTROLS</b> <sup>27</sup> <b>LU</b> - Lutron <b>EN</b> - Enlighted <b>ENC</b> - Encelium <b>WL</b> - Cooper Wavelinx <b>AN</b> - Acuity nLight <b>CA</b> - Casambi <b>LG</b> - Legrand  <b>NA</b> - None  <sup>22</sup> Standalone and connected control options cannot be combined. <sup>23</sup> Available with D1 driver and 1 circuit options only. <sup>24</sup> Minimum 4' per zone. Provide control zone length. <sup>25</sup> Fixture turns off when no occupancy. <sup>26</sup> Fixture dims to specified light level % (X). <sup>27</sup> Consult factory for connected controls.	<b>FU120</b> - Fuse 120V <b>FU277</b> - Fuse 277V <b>NA</b> - None	<b>#COB20</b> - COB 20° <b>#COB30</b> - COB 30° <b>#COB40</b> - COB 40°  <sup>28</sup> Minimum 4' fixture and minimum 2' section per COB. Consult factory for other configurations.	<b>80</b> - 80 CRI <b>90</b> - 90 CRI <b>97</b> - 97 CRI	<b>600</b> - 600 lm <b>1200</b> - 1200 lm <b>1800</b> - 1800 lm	<b>27</b> - 2700K <b>30</b> - 3000K <b>35</b> - 3500K <b>40</b> - 4000K

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VIA3-SURFACE-SPEC-REV1 August 25, 2022



**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
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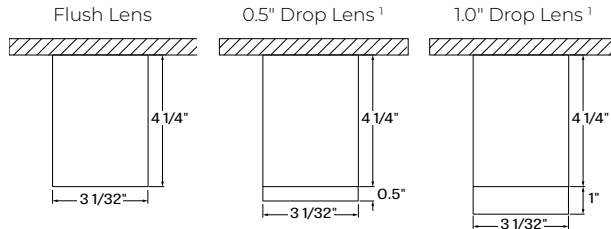


# VIA 3 SURFACE

LUMENWERX

DIRECT  
STATIC WHITE, BIOS ST/DY

## Dimensions

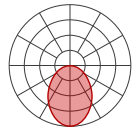


<sup>1</sup> Drop lens positions available with HLO only.

## Photometrics

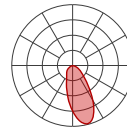
Delivered lumens at 35K at 80 CRI for all optics.

HLO (Flush Lens)



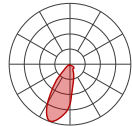
LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
350	1400	11.2	125
500	2000	16.2	123
750	3000	25.1	119
1000	4000	34.6	116
1200	4800	42.5	113

ARO2



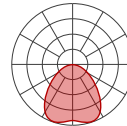
LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
350	1400	12.1	116
500	2000	17.7	113
750	3000	27.9	107
1000	4000	39.0	103
1200	4800	48.3	99

WRO2



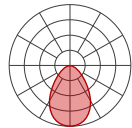
LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
350	1400	12.1	116
500	2000	17.8	112
750	3000	28.0	107
1000	4000	39.1	102
1200	4800	48.5	99

WDO



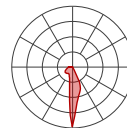
LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
350	1400	11.8	118
500	2000	17.2	116
750	3000	26.6	113
1000	4000	36.6	109
1200	4800	45.1	106

LGO



LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
350	1400	13.0	108
500	2000	18.9	106
750	3000	29.4	102
1000	4000	40.6	98
1200	4800	50.0	96

GRO



LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
350	1400	13	108
500	2000	19.2	104
750	3000	30.4	99
1000	4000	42.3	95

### MULTIPLIER TABLES

Use these tables to get results for different color temperatures, CRI, and drop lenses.

Multiplier - CCT/CRI

CCT (K)	WATTS		LPW	
	CRI 80	CRI 90	CRI 80	CRI 90
2700	1.05	1.26	0.95	0.79
3000	1.01	1.23	0.99	0.81
3500	1.00	1.20	1.00	0.84
4000	1.00	1.17	1.00	0.85

Multiplier - Drop Lens

DIRECT LENS	WATTS	LPW
Flush Lens	1.00	1.00
Drop Lens 0.5"	0.98	1.02
Drop Lens 1.0"	0.96	1.04

### COB

Use these tables to get results for different color temperatures for all COB photometric tables.

COB Multiplier - CCT

CCT (K)	MULTIPLIER
2700	1.09
3000	1.03
3500	1.00
4000	0.98

COB Wattage

COB ANGLE	CRI 80						CRI 90					
	20	30	40	20	30	40	20	30	40	20	30	40
Lumen	600	1200	1800	600	1200	1800	600	1200	1800	600	1200	1800
Wattage	5.8	11.7	18.1	6.0	11.9	18.3	6.4	12.6	19.4	7.0	14.1	22.3

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VIA3-SURFACE-SPEC-REV1 August 25, 2022



# VIA 3 SURFACE

DIRECT

STATIC WHITE, BIOS ST/DY

## LUMENWERX

## Technical Specifications

### OPTICS

#### High-Efficiency Lambertian Optic (HLO)

The High-Efficiency Lambertian Optic (HLO) uses matte white reflectors to distribute LED output across 0.075" acrylic shielding, providing up to 88% transmission and good obscuration. Available as a flush lens or as a drop lens, the HLO has a spacing criterion of 1.10.

#### Asymmetric Refractive Optic (ARO2)

The Asymmetric Refractive Optic (ARO2) uses a sophisticated reflector combined with a matte beam-shaping film to create a smooth, effective downward light component without shadows or hot spots. It provides directional Gaussian light distribution with peak intensity at 20° above nadir and a 55° Full Width at Half Maximum (FWHM) beam angle. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

#### Wall Wash Refractive Optic (WRO2)

The Wall Wash Refractive Optic (WRO2) delivers smooth vertical illumination with a gentle gradient and soft visual cut-off. Its exacting configuration creates a strong downward light component without shadows or hot spots and provides light distribution with peak intensity at 21° above nadir. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

#### Widespread Direct Optic (WDO)

The Widespread Direct Optic (WDO) is designed to distribute light far and wide. As such, it has an excellent luminous efficacy, a light span that is 40% farther than that of our traditional HLO, and it maximizes spacing distance while still creating a sense of uniformity. The lens snaps into place and utilizes nano prismatic optics to mask the diodes that are actually emitting the light.

#### Low-Glare Optic (LGO)

The Low-Glare Optic (LGO) is designed to cut off high-angled light and control glare. The carefully crafted lens refracts light downward through its center from which it then disperses into a wide conical distribution that negates any illumination at about 40°. The LGO provides the visual comfort of a louver in a smooth acrylic lens.

#### Grazing Reflector Optic (GRO)

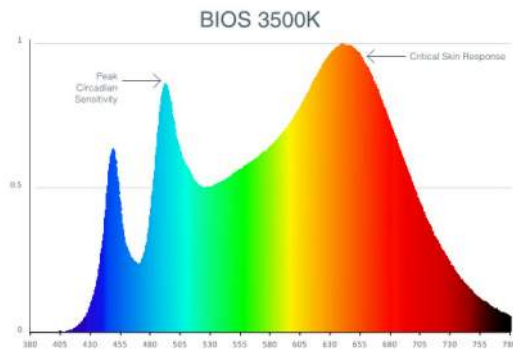
The Grazing Reflector Optic (GRO) is oriented to project light with maximum luminous intensity at 5° from nadir. This provides a tight beam to highlight and accentuate a wall with subtle vertical illumination.

### LIGHT SOURCE

Custom linear array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K and 4000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operate at reduced drive current to optimize efficacy and lumen maintenance. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.



BIOS SkyBlue™ Technology is designed to provide the specific circadian stimulus to improve overall sleep quality, recovery during the night, and overall feelings of well-being. The non-visual light signals that stimulate our circadian system have peak intensity in the "sky blue" region. As the diagram below illustrates, BIOS SkyBlue technology shifts the peak LED spectral intensity (490 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.



### LUMINAIRE LENGTH

Via 3 is available in standard lengths of 2' to 12'. Continuous runs are available for run lengths over 12'. Exact run length must be noted in the product code. The minimum length is 2', and can be ordered in 1' and/or 1" increments. All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.



# VIA 3 SURFACE

# LUMENWERX

DIRECT

STATIC WHITE, BIOS ST/DY

## ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% (specify 2-wire, or Ecosystem Dim-to-Off), eldoLED 1% ECODrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

## PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, Duo (tunable white), Quadro (RGBW) emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

## ELECTRICAL SECTION OPTIONS

Electrical section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional electrical sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

## Electrical sections

Options include emergency-powered (#EC##), night light (#NL##), daylight (#DL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in inches (##).

Example 1: A 32' Direct fixture with two 8' emergency-powered sections on a second circuit.

Code: 2MC-2EC96

Example 2: A 24' Direct fixture with one 4' generator transfer device section.

Code: 1MC-1GTD48

## Battery

Each emergency battery (#EMB) powers a 4' section. All batteries will be on the same circuit. Specify the number of batteries (#) required.

Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours.

## MOUNTING OPTIONS

Fixtures can be mounted directly to T-Bar, drywall and hard surface ceilings, hardware supplied by others. Long runs require a minimum distance of 6" from the vertical wall.

## FINISH

**Interior** - 95%, reflective matte powder coated white paint

**Exterior** - Matte white, matte black, or aluminum powder coating. Custom finishes are also available.

## CONTROLS

Lumenwerx offers several options for integrating occupancy and daylight harvesting controls in our luminaires.

For latest information on sensors, click [here](#).



## STANDALONE CONTROLS

An integrated standalone sensor controls the luminaire in which it is installed. Depending on the length, more than one sensor may be necessary and may control the entire luminaire, or just a section of it. These controls operate independently. Unless otherwise agreed, sensor location, blank size, and functionality of the sensor within the luminaire are selected by Lumenwerx. See client drawings for details.

Three types are available:

**OMS:** An integral Passive InfraRed (PIR) sensor turns luminaires on and off automatically with field-adjustable time out period. No wall control is used. Coverage pattern for large motion has a 12' diameter with the sensor mounted 8' above the floor; for small motion, the pattern has an 8' diameter. Typically, one sensor is required for every 10' of a continuous luminaire run.

**ODS:** An integral, daylight harvesting sensor with closed-loop operation dims the luminaire in which it is installed in order to compensate for available daylight. The sensor measures the combination of daylight and luminaire light reflected from horizontal surfaces below the luminaire. Initial onsite calibration is required via the use of provided remote control.

**OCS:** Both an occupancy and a daylight sensor are installed in the luminaire.



# VIA 3 SURFACE

DIRECT

STATIC WHITE, BIOS ST/DY

## LUMENWERX

### CONNECTED CONTROLS

With connected controls, sensors or nodes installed in the luminaire form part of a larger control system infrastructure from manufacturers such as: Lutron, Enlighted, Encelium, Cooper Wavelinx, Acuity nLight, Casambi, Legrand, and others. These connected controls allow for a scalable system providing features like occupancy and daylight control, manual control, scheduling and configuration of various zones and scenes. Energy reporting and system monitoring are also possible. Specific capabilities depend on the control system being used.

Lumenwerx installs the components (sensors, nodes, power packs, etc) which may be supplied to us by a third party, or procured directly by Lumenwerx, depending on the control system manufacturer.

Lumenwerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.

To indicate a Lumenwerx luminaire with connected controls, identify the specific onsite control system to be integrated into the luminaires using the ordering code. Due to the diversity of components, you must contact factory to assure complete compatibility with intended control system and to fully specify the luminaire.

Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for Lumenwerx to create shop drawings and submittals.

### COB

Fixtures with Chip On Board (COB) technology are able to provide a maximum output of 1800 lumens from a discrete 50mm aperture on 8 inch centers. Standard CRI is 80, for 90 and 97 CRI with elevated R9 values please consult factory. Standard 20°, 30° and 40° beam angles are available, as are custom angles with prior factory approval. All our Chip On Board products have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 50,000 hours.



Chip On Board (COB)

### CONSTRUCTION

**Housing** - Extruded aluminum, up to 90% recycled content

**Interior brackets** - Die-formed cold rolled sheet steel

**Joining system** - Die-cast zinc

**Reflectors** - Cold rolled steel die-formed, 95% reflective matte white painted

**Lens** - Acrylic or polycarbonate

**Drop lens** - Extruded with glued end caps

**End caps** - Die-cast aluminum

### WEIGHT

**Via 3 4ft** - 11.12 lbs - 5.05 kg

**Via 3 8ft** - 22.25 lbs - 10.1 kg

**Via 3 12ft** - 33.48 lbs - 15.2 kg

### CERTIFICATIONS

**ETL** - Rated for Indoor dry/damp locations. Conforms to UL

Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0

**DLC** - Certain configurations have been DLC certified. Consult factory for details.

### WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

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VIA3-SURFACE-SPEC-REV1 August 25, 2022



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**ALULA Lighting Design**

155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LS9 Series**

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## General Illumination Pendant Stem Cylinder

4"

### OVERVIEW

#### Feature Set

- Batwing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
- Bounding Ray™ optical design
- 45° cutoff to source and source image
- Fully serviceable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional
- Fixtures are damp location standard; Wet location (WL) optional, requires covered ceiling
- 20 standard colors in textured and gloss finish; custom or RAL colors also available
- Field cuttable 1/2" stems with concealed couplers.
- Multiple recessed or surface j-box mounting configurations available
- UGR of zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg per CIE 117-1995 Discomfort Glare in Interior Lighting. [UGR FAQ](#)

#### Distribution



#### Superior Performance

Nominal Lumens	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000
Delivered Lumens	271	573	808	1001	1527	1994	2580	3110	3612	4120	4584	5045
Wattage	3.1	7.2	7.9	8.8	13.7	19.5	25.7	31.2	38.4	35.4	40.1	44.7
Lumens per Watt	87.4	79.6	102.3	113.8	111.5	102.3	100.4	99.7	94.1	116	114	113



### COMPLEMENTARY PRODUCTS

#### Coordinated Apertures | Multiple Layers of Light



General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

#### Core



Downlight



Adjustable



Open Wallwash



Lensed Wallwash



Cylinder



Pinhole



Bevel



Hyperbolic

#### Healthcare



MRI



Surgical Suite



Patient Room

#### Special Applications



Dynamic



Food Service



Vandal/Tamper



Clean Room



Shower



Steam Room

EVO4PC  
page 1 of 15

GOTHAM ARCHITECTURAL DOWNLIGHTING | 1400 Lester Road Conyers, GA 30012 | P 800-705-SERV (7378) | [gothamlighting.com](http://gothamlighting.com)  
© 2014-2024 Acuity Brands Lighting Inc. All Rights Reserved. Rev. 10/09/24 Specifications subject to change without notice.  
The product images shown are for illustration purposes only and may not be an exact representation of the product.



**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LS10**

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Luminaire Type:

Catalog Number:

EXAMPLE: EV04PC 35/15 AR MWD LSS MVOLT EZ1 JBXCC PCAN S12 DWHG

Series	Color Temperature	Lumens	Reflector Color	Reflector Finish	Distribution	Voltage
EV04PC EVO 4in Pendant Stem Round Cylinder Open Downlight	27/ 2700 K	02 250 lumens	AR Clear	LSS Semi-specular	MD Medium (0.8 s/mh)	MVOLT 120V - 277V
	30/ 3000 K	05 500 lumens	PR Pewter	LD Matte diffuse		120 120V
	35/ 3500 K	07 750 lumens	WTR Wheat	LS Specular	MWD Medium wide (1.0 s/mh)	277 277V
	40/ 4000 K	10 1000 lumens	GR Gold		WD Wide (1.2 s/mh)	347 <sup>3</sup> 347V
	50/ 5000 K	15 1500 lumens	WR <sup>1</sup> White painted			
		20 2000 lumens	BR <sup>1</sup> Black			
		25 2500 lumens	WRAMF <sup>1</sup> White Anti-microbial			
		30 3000 lumens	BZR <sup>1</sup> Dark Bronze painted			
		35 3500 lumens	TRALTB <sup>1,2</sup> Trim RAL # TBD (TBD for pricing only)			
		40 4000 lumens	TCPC <sup>1</sup> Trim Custom Paint Color TBD (TBD for pricing only)			
		45 4500 lumens				
		50 5000 lumens				

Driver <sup>4</sup>	Mounting	Canopy Type	Stem Length <sup>11</sup>
GZ10 0-10V driver dims to 10%	JBX Integral driver, Recessed or Surface J-Box	PCAN 5° Stem canopy with "hang straight" swivel	S2 2 foot 1/2" stem
GZ1 0-10V driver dims to 1%	JBXCC Integral driver, Surface J-Box with Conduit Covers	PCAN45 <sup>18</sup> 45° Stem canopy with "hang straight" swivel	S4 4 foot 1/2" stem
EZ10 eldoLED 0-10V EC0drive. Linear dimming to 10% min.	SGB <sup>8,16</sup> Surface Gear Box, Recessed Or Surface J-Box		S6 6 foot 1/2" stem
EZ1 eldoLED 0-10V EC0drive. Linear dimming to 1% min.	SGBCC <sup>8,16</sup> Surface Gear Box, Surface J-Box With Conduit Covers		S8 8 foot 1/2" stem
EZB eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.	RGH <sup>9</sup> Recessed Gear Housing		S10 10 foot 1/2" stem
EDAB <sup>5</sup> eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.			S12 12 foot 1/2" stem
EDXB <sup>5,8,7</sup> eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Min: 1000LM; Max: 4000LM.			S16 16 foot 1/2" stem
ECOD <sup>5</sup> Lutron® EcoSystem® digital Hi-Lume 1% soft-on, fade to black. Max: 4000LM.			S20 20 foot 1/2" stem
ELV <sup>5</sup> Electronic line voltage (120V only)			

Emergency Option	Control Interface <sup>12</sup>	Options	Architectural Colors - Powder Paint <sup>2</sup>
(blank) No emergency options	(blank) No controls	90CRI High CRI (90+)	DDB Gloss Dark Bronze
E6W 6W integral emergency battery, CA Title 20 compliant emergency battery pack with integral test switch. Only available with GZ10, GZ1 and ELV Drivers. Only for use with 500-2500 lumen options. Not available with 1500 lumen option.	NLT nLight® dimming pack. Specify 120V or 277V	CP <sup>14</sup> Chicago Plenum. Specify 120V or 277V (requires RGH)	DBL Matte Black
	NLTER <sup>13</sup> nLight® dimming pack for fixtures on emergency circuit. Specify 120V or 277V	HAO <sup>15</sup> HAO High Ambient Option (40°C)	DWH Gloss White
E7WCP IOTA® 7W Constant Power emergency battery (sidecar). Only for use with 750-5000 lumen options.	NLTAIR2 nLight® AIR dimming pack. Specify 120V or 277V	N80 <sup>16</sup> nLight Lumen Compensation	DMB Matte Medium Bronze
E10WCP IOTA® 10W Constant Power, CA Title 20 compliant emergency battery pack with integral test switch. Only for use with 1000-5000 lumen options. (sidecar or RGH)	NLTAIRER2 <sup>13</sup> nLight® AIR dimming pack for fixtures on emergency circuit. Specify 120V or 277V	SF Single fuse. Specify 120V or 277V.	DNA Gloss Natural Aluminum
E10WCPR IOTA® 10W Constant Power, CA Title 20 compliant emergency battery pack with remote test switch. Only for use with 1000-5000 lumen options. (requires RGH)		WL <sup>17</sup> Wet Location	DSS Gloss Sandstone
E15WCP IOTA® 15W Constant Power, CA Title 20 compliant emergency battery. Only for use with 1500-5000 lumen options. (sidecar)			DGC Gloss Charcoal Grey
GTD IOTA® Generator Transfer Device. Specify 120V or 277V (requires RGH)			DTG Gloss Tennis Green
			DBR Gloss Bright Red
			DSB Gloss Steel Blue
			DDBT Textured Dark Bronze
			DBLB Textured Black
			DWHG Textured White
			DBNH Textured Bronze
			DNAT Textured Natural Aluminum
			DSST Textured Sandstone
			DSPD Textured Dark Grey
			DSPE Textured Green
			DSPH Textured Light Red
			DWHAMF Gloss White with Anti-microbial finish
			RALTB <sup>1</sup> Cylinder RAL # TBD (TBD for pricing only)
			CPC Cylinder Custom Paint Color TBD (TBD for pricing only)



**ACCESSORIES — order as separate catalog numbers (shipped separately)**

<b>GCOLORS KIT</b>	Architectural colors chip kit, consisting of powder-coat and plated finishes
<b>CYLJBXADPT 4SQ20CT</b> ____	4in Square J-box to 4in Octagonal J-box adaptor. Replace ____ with Architectural Color or PRM for primed ready for field painting
<b>CYLSTBL KIT</b>	Stabilization Kit for securing pendant stem fixtures

**ORDERING NOTES**

- Not Available with Reflector Finishes.
- Replace with applicable RAL number and finish when ready to order. See [RAL BROCHURE](#) for available color options. For details on all Acuity Architectural paint colors, RAL and Custom colors, please see [Architectural Colors](#). Not available with emergency battery pack options.
- Factory supplied step down transformer must be remote mounted. Access required to location of remote mounted device.
- Refer to [Tech 240](#) for compatible dimmers.
- Not Available with Control Interfaces.
- Requires SGB, or SGBCC mounting option.
- Includes terminator resistor. Not available with 250-750 lumen packages.
- Only available with DMX driver (EDXB).
- Not available with E6W, E7W or E15WCP Emergency Options.
- Not available with SGB or SGBCC; those mountings require a flat ceiling.
- Stem section adjacent to cylinder can be cut in field to achieve non-uniform lengths (i.e. for a field cut 3' length, order 4' stem).
- Factory installed with RGH option otherwise field installed. Access required to location of remote mounted device.
- ER for use as UL924 Emergency Operation via power sense lead. Will require an emergency hot feed and normal hot feed. EM for use as UL924 Emergency Operation via power interrupt detection.
- CP not valid with NLTAIR2, NLTAIRER2 or emergency options.
- Only available up to 2500 lumens; not available with WL.
- Fixture begins at 80% light level. Must be specified with NLT or NLTER. Only available with EZ10 and EZ1 drivers.
- Not available with JBXCC, SGB, or SGBCC or sidecar Emergency Options. Max: 3000LM.





### Optical Assembly

Fully serviceable and upgradeable lensed LED light engine suitable for field maintenance or service from below the ceiling. Optical design is a Bounding Ray™ design with 45° cutoff to source and source image. Top down flash characteristic for superior glare control.

### Electrical

The luminaire shall operate from a 50 or 60 Hz  $\pm 3$  Hz AC line over a voltage ranging from 120 VAC to 277 VAC. Support 347V via remote-mounted stepdown transformer. The fluctuations of line voltage shall have no visible effect on the luminous output.

The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output.

Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages.

Input wires shall be 18AWG, 300V minimum solid copper.

All drivers are ROHS compliant.

### Controls

Luminaire shall be equipped with interface for nLight wired or nLight AIR networks with integral power supply as per specification.

### Emergency

Luminaires supplied with a battery pack comply with NFPA 101 (Life Safety code) and deliver constant light output throughout the 90 minutes of code required emergency operation period when there is a normal AC power loss.

Luminaires equipped with a generator transfer device work in conjunction with an auxiliary generator or a central inverter system to power fixtures for safe egress lighting.

### Dimming

The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 – 10%, 100 – 1.0% or 100 – 0.1% of rated lumen output with a smooth shut off function to step to 0%.

eldoLED LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered.

Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

### Construction

Heaving-gauge aluminum construction. Extruded cylinder body with flangeless reflector allows flow-through passive thermal management. Canopy matches cylinder in finish and diameter.

Pendant stem mount for installation to 4" recessed or surface octagonal junction box with integral driver.

Recessed gear box available for driver above ceiling, nLight, battery pack, CP, and GTD options.

Surface gear box available for driver at ceiling installation.

Optional field configurable conduit covers available. Conduit covers match cylinder in finish and diameter.

**WARNING: All pendant fixtures exposed to wind require tethering – see page 6.**

### Listings

Fixtures are CSA Certified to meet US and Canadian Standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, damp location standard; wet location (WL) optional, requires covered ceiling.

### Photometrics

LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours.

Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 6,000 hours and operate with a tolerance of <2.5 MacAdam ellipse as defined by the center of the quadrangles defined in ANSI C78.377-2015.

### Government Procurement

BAA - Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations

BABA - Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

### Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

### Note:

Actual performance may differ as a result of end user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provided consistent color appearance and out-of-the-box control capability with simple commissioning when used with Acuity Brands controls products.

All configurations of this luminaire are calibrated and tested meet the Acuity Brands' specification for chromatic consistency - including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates.

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).





EVO - eldoLED Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
EZ10	10%	Linear	Linear/Logarithmic
EZ1	1%	Linear	Linear/Logarithmic
EZB	<1%	Logarithmic	Linear
EDAB	<1%	Logarithmic*	Linear
EDXB	<1%	Square	Linear

\*Changable thorough DALI controller

Driver		Control Provided (note: 347V/UVOLT versions provided with 347 option selected)			
Nomenclature	Description	NLT	NLTER	NLTAIR2	NLTAIRER2
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2
GZ1	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2
EZ10	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2
EZ1	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2
EZB	eldoLED 0-10V SOLOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2

J-box Compatibility Matrix		Cylinder Configurations					
		JBX	SGB	SGBCC	SGB w/EDXB Driver	SGBCC w/EDXB Driver	JBXCC
Recommended J-box (by others)	4" Octagonal 4x4x1.5 deep	✓	✓	✓	✓	✓	✓
	4" Octagonal 4x4x2.125 deep	✓	✓	✗	✓	✗	✗
	4" Square 4x4x1.5 deep	*with adaptor plate accessory	*with adaptor plate accessory	✗	*with adaptor plate accessory	✗	✗

### Standard Architectural Color Options for Cylinder Bodies

 <b>DSS LITHONIA</b> Sandstone P12	 <b>DSST TEXTURED</b> Sandstone P90	 <b>DBR LITHONIA</b> Bright Red P34	 <b>DSPH TEXTURED</b> Light Red P80	 <b>DMB LITHONIA</b> Medium Bronze P11	 <b>DBNH TEXTURED</b> Bronze P74	 <b>DTG LITHONIA</b> Tennis Green P33	 <b>DSPE TEXTURED</b> Green P78
 <b>DSB LITHONIA</b> Steel Blue P49	 <b>DNA LITHONIA</b> Natural Aluminum P07	 <b>DNAT TEXTURED</b> Natural Aluminum P89	 <b>DGC LITHONIA</b> Charcoal Gray P32	 <b>DSPD TEXTURED</b> Dark Grey P77	 <b>ddb LITHONIA</b> Dark Bronze P50	 <b>DBBT TEXTURED</b> Dark Bronze P88	 <b>DBL LITHONIA</b> Black P13
 <b>DBLB TEXTURED</b> Black P75	 <b>DWH LITHONIA</b> White P21	 <b>DWHG TEXTURED</b> White P86					

NOTE: These colors were carefully reproduced to give as true a depiction as possible of finished product color. Some colors, however, may vary slightly from actual appearance due to display/printing variations and limitations. Please order the GCOLORS KIT listed in the 'Accessories' section of the spec sheet for an accurate paint chip sample.



#### Stabilization Kit (CYLSTBL KIT) Accessory

The Stabilization Kit offers additional support for applications where wind may be a factor and the pendant stem cylinder needs to be secured.

#### Cables

Three (3) 20 ft. 304 grade stainless steel aircraft cables with outer diameters of 1/16" are attached to anchoring mechanisms in the mounting surface at one end and the provided stem collar around the pendant stem at the other end.

Cables should be anchored 120° +/- 10° from each other radially and positioned at 45° or greater from the stem for optimal support of the fixture.

#### Clamps and Stem Collars

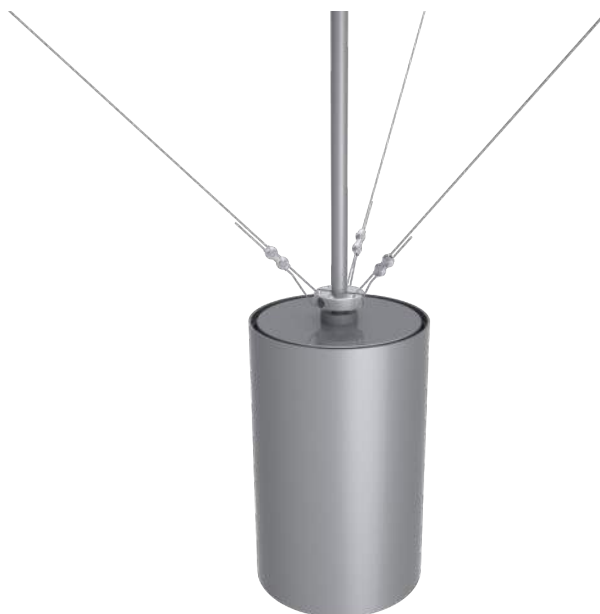
The stem collar consists of two (2) half stem collars made of 304 stainless steel. Both stem collar halves are attached around the pendant stem with 304 stainless steel socket head cap screws.

Six (6) cable clamps made of 304 stainless steel are used in the stabilization kit with two (2) clamps per cable attached to each anchoring point and the stem collar.

The cable tension can be adjusted from either end.

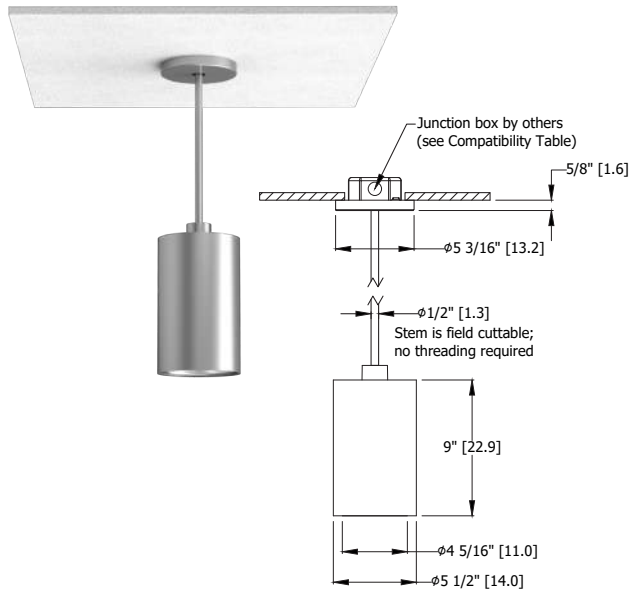
#### Wind Load

The Stabilization Kit is designed to withstand 90mph winds for 3 seconds comparable to ASCE 7-10, MRI 50-year (fixture EPA is 0.2 sq ft)

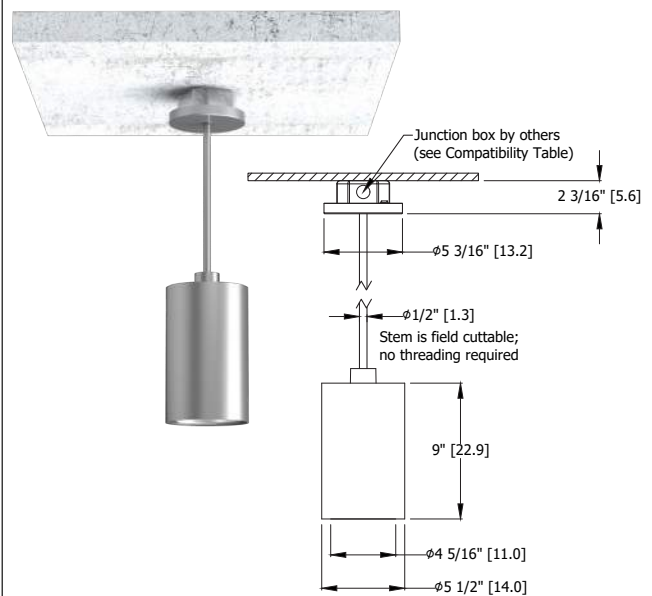


DIMENSIONAL DATA

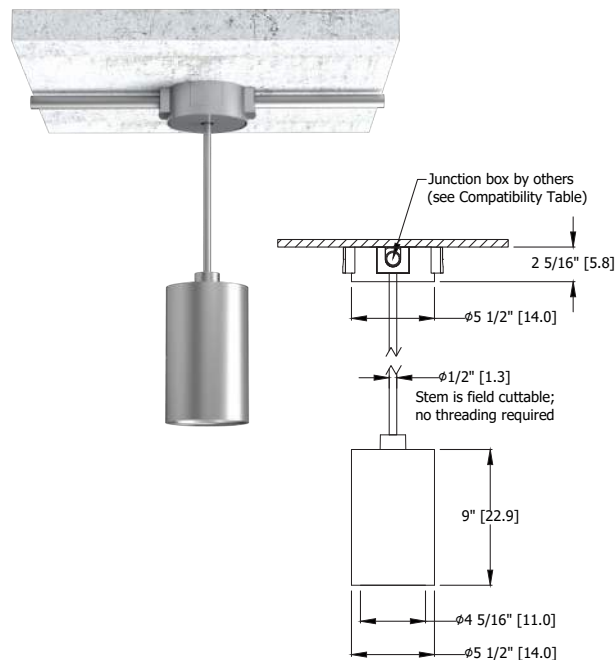
JBX Recessed J-Box



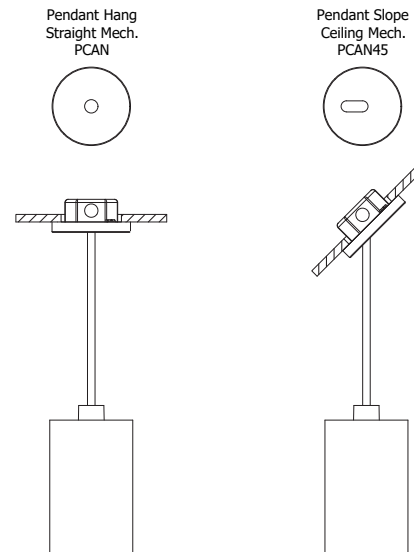
JBX Surface J-Box



JBXCC Surface J-Box with Conduit Covers



Stem\_PCAN vs PCAN45



\*Dimensions in inches [centimeters]

EV04PC  
page 7 of 15

GOTHAM ARCHITECTURAL DOWNLIGHTING | 1400 Lester Road Conyers, GA 30012 | P 800-705-SERV (7378) | gothamlighting.com  
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The product images shown are for illustration purposes only and may not be an exact representation of the product.

gotham®



**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

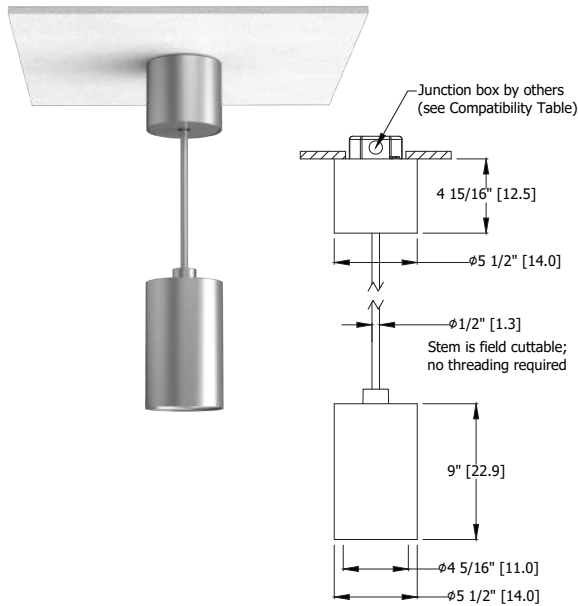
Fixture Type:

**LS10**

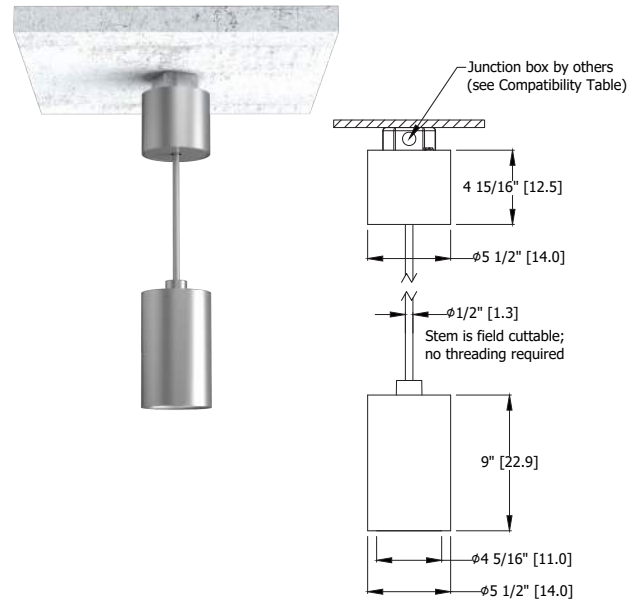
Page 7 of 15

DIMENSIONAL DATA

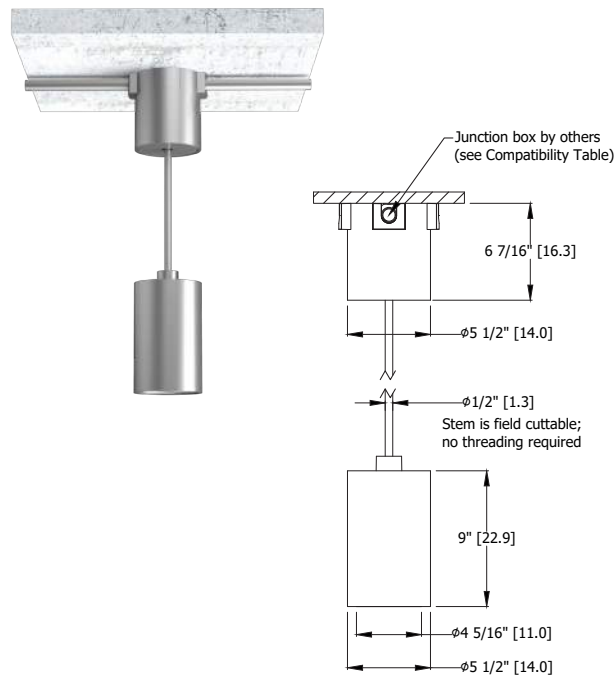
SGB Surface Gear Box for EDXB recessed J-box



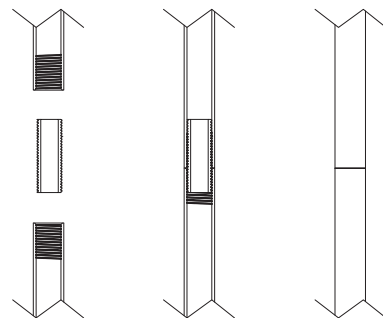
SGB Surface Gear Box for EDXB surface J-box



SGBCC Surface Gear Box for EDXB with Conduit Covers



Stem Connection Method



\*Dimensions in inches [centimeters]

EV04PC  
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**Project:** Toronto Public Library - Pleasant View Branch

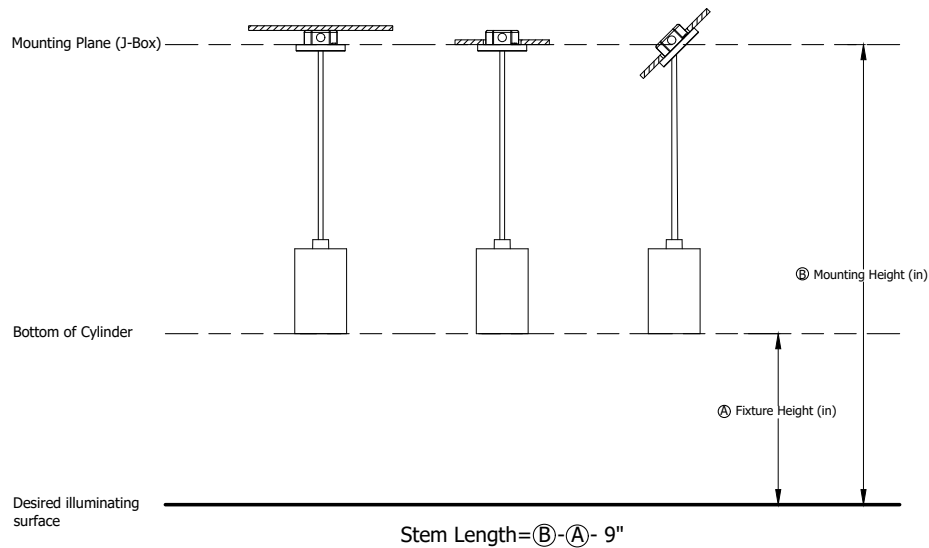
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Fixture Type:

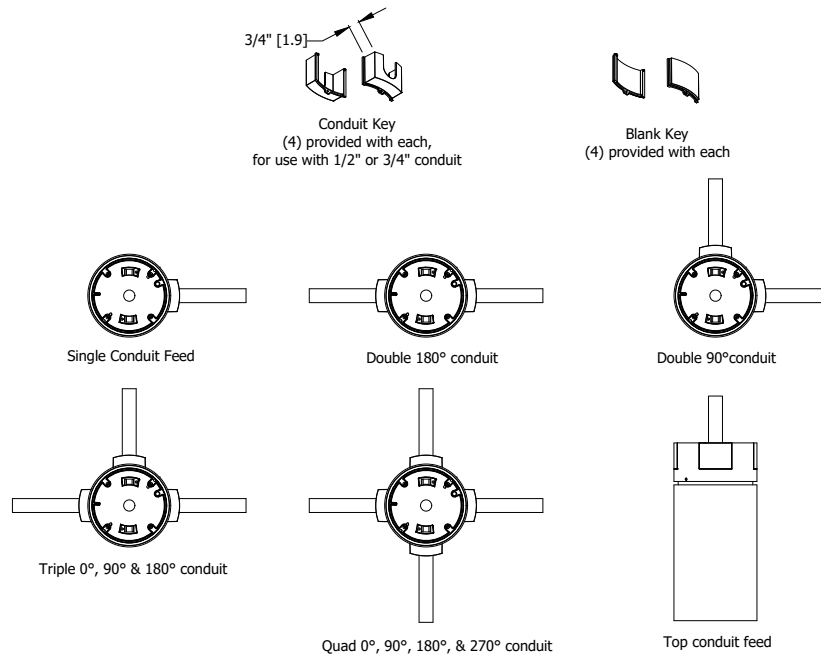
**LS10**

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Stem Cutting Formulas for JBX/JBXCC



Conduit Feed Examples and Keys



\*Dimensions in inches [centimeters]

EV04PC  
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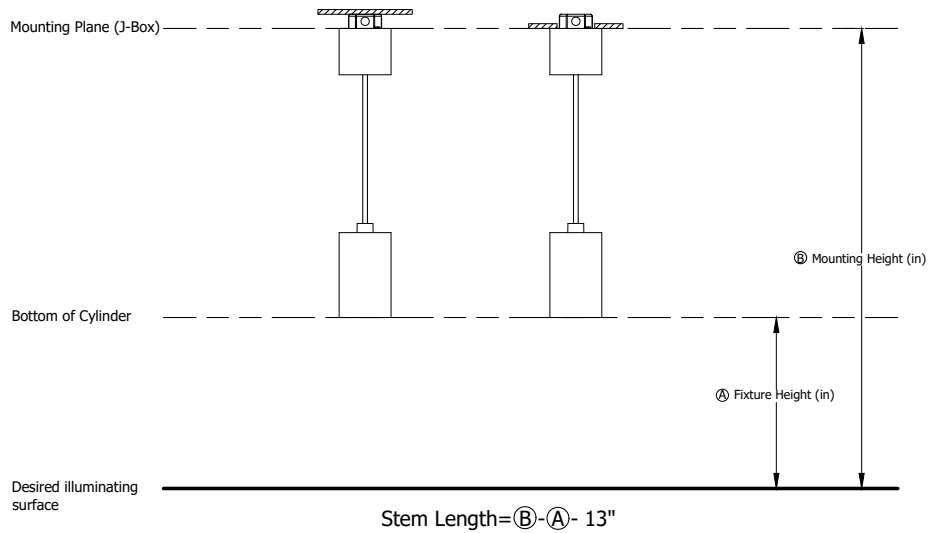
Fixture Type:

**LS10**

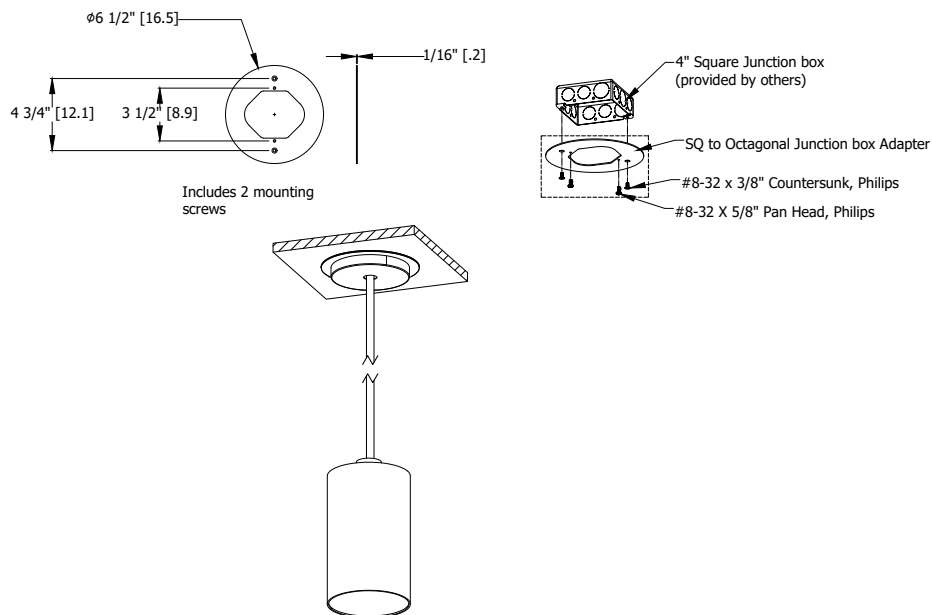
Page 9 of 15

DIMENSIONAL DATA

Stem Cutting Formulas for SGB



Cylinder Adaptor Plate



\*Dimensions in inches [centimeters]

EV04PC  
page 10 of 15

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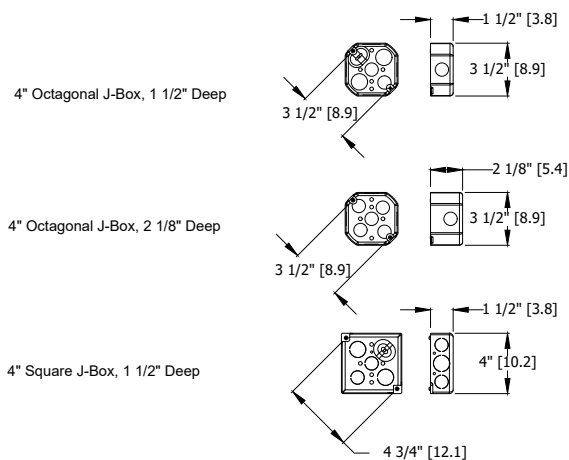
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Fixture Type:

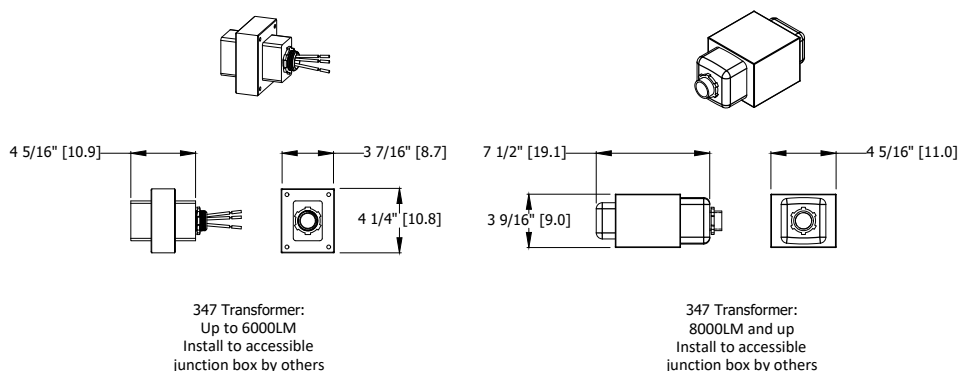
**LS10**

Page 10 of 15

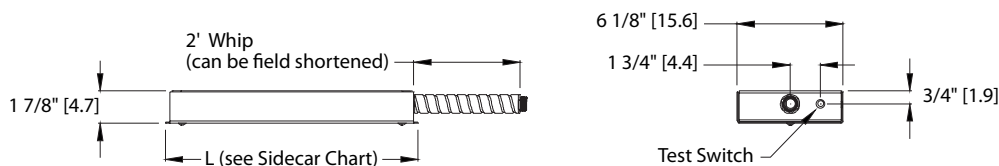
### Junction Box Dimensions (by others)



### 347V Stepdown Transformer



### Emergency Battery Sidecar Dimensions

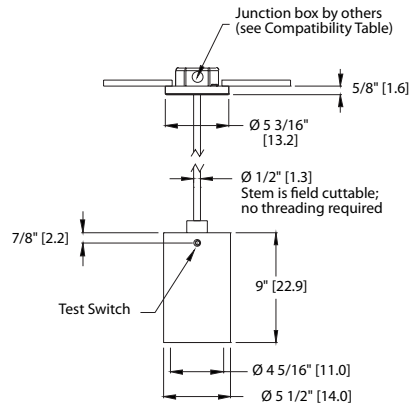


SIDECAR BATTERY OPTION	LUMEN PACKAGES AVAILABLE	L (SIDECAR LENGTH)
E7WCP	750LM AND GREATER EXCEPT AS NOTED BELOW	14"
	6000-8000LM	16"
	5000-8000LM WITH ECOD DRIVER	16"
E10WCP	1000LM AND GREATER EXCEPT AS NOTED BELOW	14"
	6000-8000LM	16"
	5000-8000LM WITH ECOD DRIVER	16"
E15WCP	1500LM AND GREATER	16"

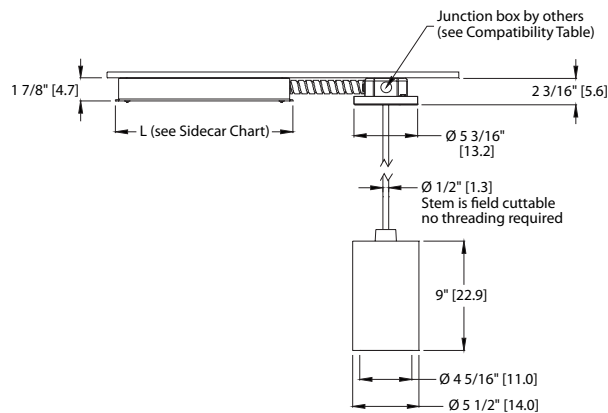
\*Dimensions in inches [centimeters]



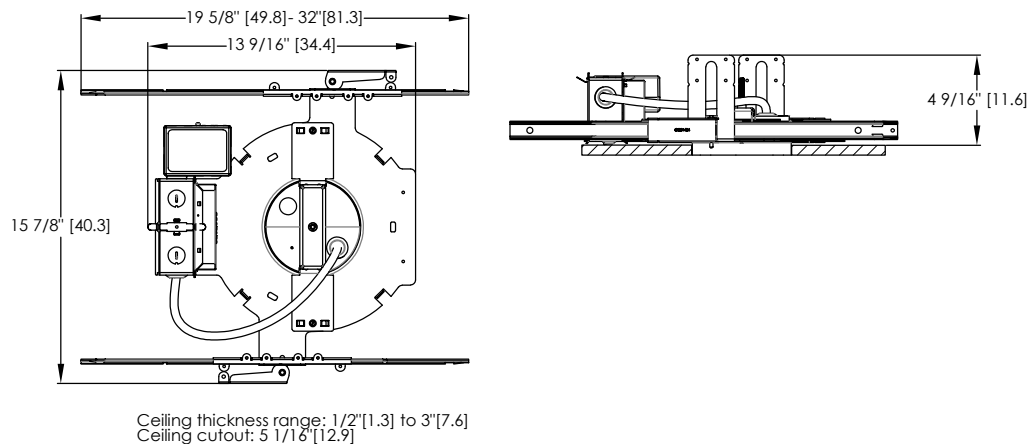
6W Integral Emergency Battery



7W/10W/15W Sidecar Emergency Battery



RGH Standard



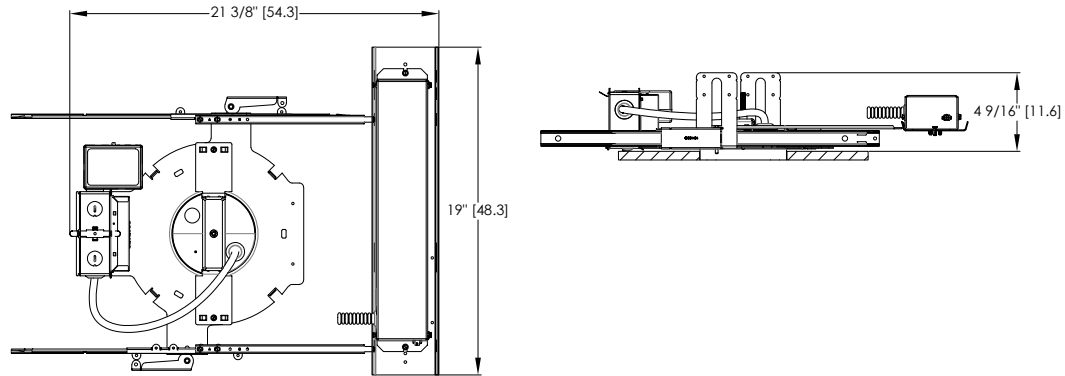
Ceiling thickness range: 1/2\" [1.3] to 3\" [7.6]  
Ceiling cutout: 5 1/8\" [12.9]

\*Dimensions in inches [centimeters]





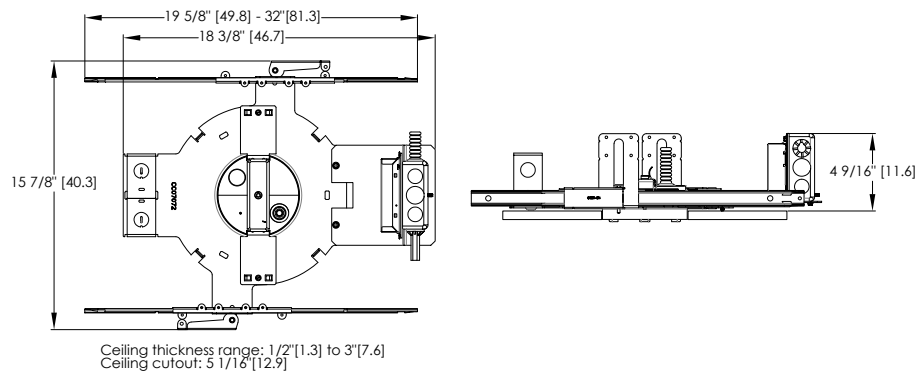
RGH with Battery Backup (E10WCPR/E10WCP) Standard



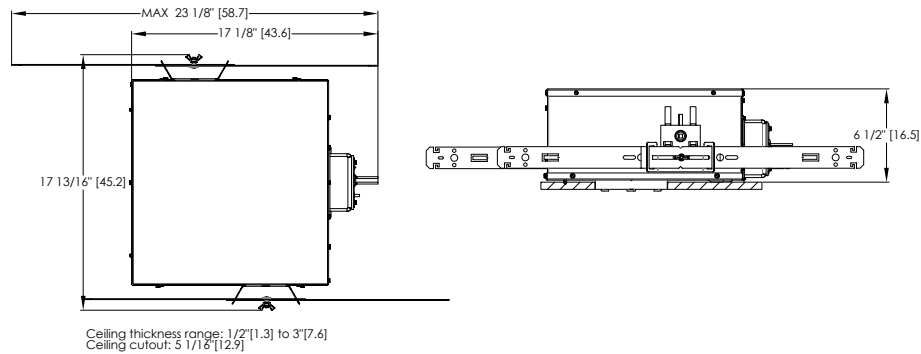
With Emergency Battery or GTD option

Minimum plenum height for emergency batteries in non-accessible ceilings: 12 1/2\"/>

RGH CP Standard



RGH with Chicago Plenum (CP) for use with nLight Enclosed

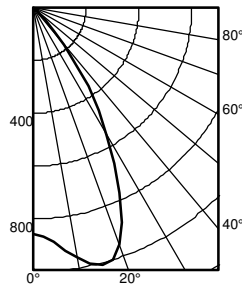


\*Dimensions in inches [centimeters]



CONSULT [WWW.GOTHAMLIGHTING.COM](http://WWW.GOTHAMLIGHTING.COM) FOR ADDITIONAL PHOTOMETRY.

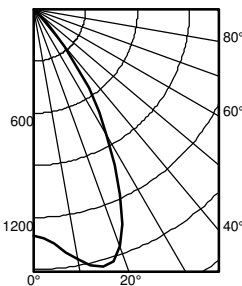
EV04PC 35/10 MWD LS INPUT WATTS: 8.8W, DELIVERED LUMENS: 1001.7LM, LPW = 113.8, 1.08 S/MH, TEST NO. LTL27786P



Ave	Lumens	Zone	Lumens	% Lamp
0	856	0° - 30°	717.4	71.6
5	888	0° - 40°	942.0	94.0
15	1010	0° - 60°	1000.8	99.9
25	775	0° - 90°	1001.7	100.0
35	363	90° - 180°	0.0	0.0
45	61	0° - 180°	1001.7	*100.0
55	2			
65	1			
75	0			
85	0			
90	0			

Initial FC					
Mounting Height	Center Beam	Diameter	FC	Diameter	FC
8.0	28.3	5.9	14.1	9.2	2.8
10.0	15.2	8.1	7.6	12.5	1.5
12.0	9.5	10.3	4.7	15.9	0.9
14.0	6.5	12.4	3.2	19.2	0.6
16.0	4.7	14.6	2.3	22.5	0.5

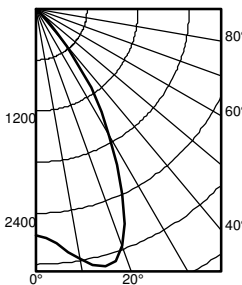
EV04PC 35/15 MWD LSS INPUT WATTS: 13.7W, DELIVERED LUMENS: 1527.3LM, LPW = 111.4, 1.08 S/MH, TEST NO. LTL27786P



Ave	Lumens	Zone	Lumens	% Lamp
0	1305	0° - 30°	1093.9	71.6
5	1354	0° - 40°	1436.2	94.0
15	1539	0° - 60°	1525.8	99.9
25	1181	0° - 90°	1527.3	100.0
35	553	90° - 180°	0.0	0.0
45	93	0° - 180°	1527.3	*100.0
55	2			
65	1			
75	0			
85	0			
90	0			

Initial FC					
Mounting Height	Center Beam	Diameter	FC	Diameter	FC
8.0	43.2	5.9	21.6	9.2	4.3
10.0	23.2	8.1	11.6	12.5	2.3
12.0	14.5	10.3	7.2	15.9	1.4
14.0	9.9	12.4	4.9	19.2	1.0
16.0	7.2	14.6	3.6	22.5	0.7

EV04PC 35/30 MWD LSS INPUT WATTS: 31.2W, DELIVERED LUMENS: 3110.6LM, LPW = 99.6, 1.08 S/MH, TEST NO. LTL27786P



Ave	Lumens	Zone	Lumens	% Lamp
0	2659	0° - 30°	2227.9	71.6
5	2758	0° - 40°	2925.0	94.0
15	3135	0° - 60°	3107.6	99.9
25	2406	0° - 90°	3110.6	100.0
35	1126	90° - 180°	0.0	0.0
45	189	0° - 180°	3110.6	*100.0
55	5			
65	2			
75	0			
85	0			
90	0			

Initial FC					
Mounting Height	Center Beam	Diameter	FC	Diameter	FC
8.0	87.9	5.9	43.9	9.2	8.8
10.0	47.3	8.1	23.6	12.5	4.7
12.0	29.5	10.3	14.7	15.9	2.9
14.0	20.1	12.4	10.1	19.2	2.0
16.0	14.6	14.6	7.3	22.5	1.5

Distributions		
Nomenclature	Beam Angle	Field Angle
MD	54	82
MWD	67	89
WD	71	92

Lumen Output Multiplier		
CRI	CCT	Multiplier
80	2700K	0.916
	3000K	0.948
	3500K	1
	4000K	1.032
	5000K	1.1
90	2700K	0.748
	3000K	0.8
	3500K	0.838
	4000K	0.845
	5000K	0.945

Reflector Finish Multiplier	
Reflector Finish	Multiplier
LS - Specular	1
LSS - Semi Specular	0.956
WR - White	0.87
LD - Matte Diffuse	0.85
BR - Black	0.73
BZR - Bronze	0.73



NLIGHT AIR

**nLight® AIR** is the ideal solution for retrofit or new construction spaces where adding communication wiring is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each EVO Luminaire ordered with the NLTAIR option. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.

**nLight® AIR Control Accessories**

Order as separate catalog number. Visit [nLight AIR](#).

Wall Switches	Model Number
On/Off single pole	rPODB (color) G2
On/Off two pole	rPODB 2P (color) G2
On/Off & raise/lower single pole	rPODB DX (color) G2
On/Off & raise/lower two pole	rPODB 2P DX (color) G2

**nLight® AIR Control Accessories (cont.)**

Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	rCMS 9 / rCMS PDT 9
Large motion 360°, ceiling	rCMS 10 / rCMS PDT 10

**UL924 Sequence of Operation**

The below information applies to all nLight AIR devices with an EM option.

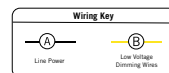
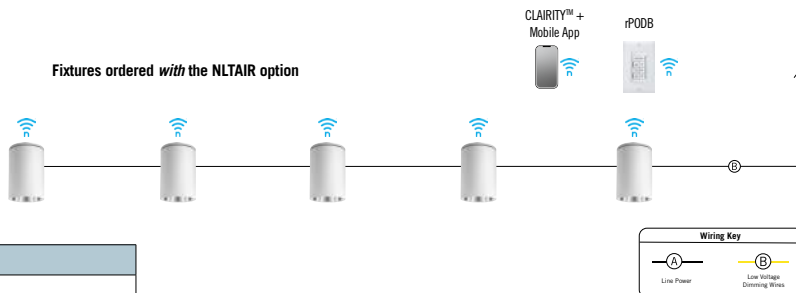
- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

**Possibilities for nLight® AIR**

**Fixtures ordered without the NLTAIR option**



**Fixtures ordered with the NLTAIR option**



NLIGHT

**nLight® Wired** The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

**nLight® Wired Control Accessories**

Order as separate catalog number. Visit [nLight](#).

Wall Switches	Model Number
On/Off single pole	nPODM (color)
On/Off two pole	nPODM 2P (color)
On/Off & raise/lower single pole	nPOD DX (color)
On/Off & raise/lower two pole	nPODM 2P DX (color)
Graphic touchscreen	nPOD GFX (color)

**Photocell Controls**

Dimming	nCM ADCX
---------	----------

**nLight® Wired Control Accessories (cont.)**

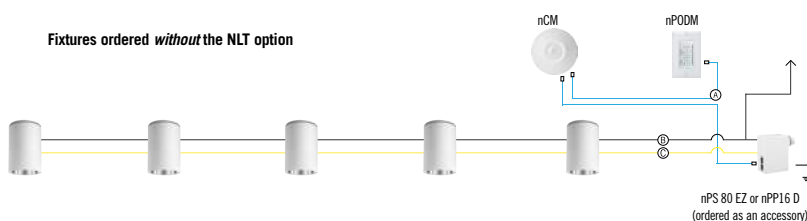
Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX

**Cat-5 Cables (plenum rated)**

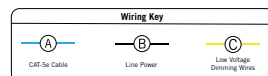
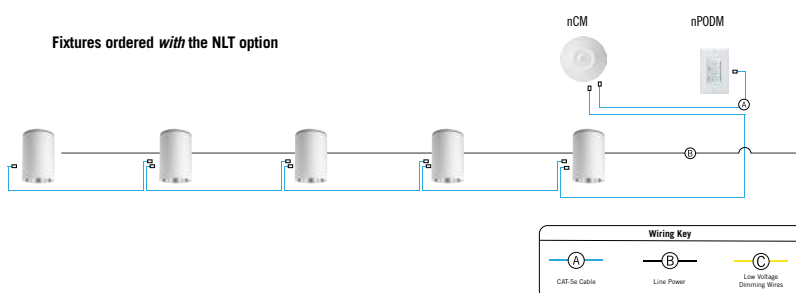
10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1

**Possibilities for nLight® wired**

**Fixtures ordered without the NLT option**



**Fixtures ordered with the NLT option**



# VIA 3 PENDANT

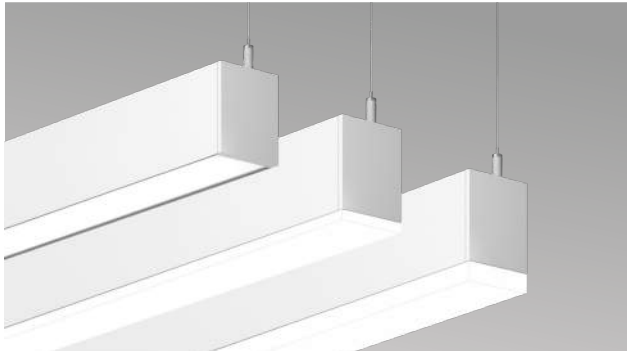
DIRECT/INDIRECT, DIRECT, INDIRECT  
STATIC WHITE, BIOS ST/DY

**LUMENWERX**



Project: \_\_\_\_\_

Type: \_\_\_\_\_



Lens Positions <sup>1</sup>

## DESCRIPTION

Our elegant, flexible Via family is composed of linear, pendant, surface, recessed, and wall mounted luminaires. Each lighting fixture can be installed as a discrete luminaire or in continuous runs or patterns. Via 3 Pendant is offered with asymmetric, widespread, wall wash, or low-glare optics.

**Up to 153 lm/W performance**



**SENSORS**  
For latest  
information  
on sensors,  
click [here](#).



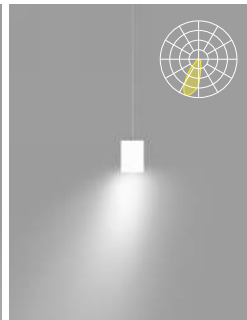
## DIRECT OPTICS



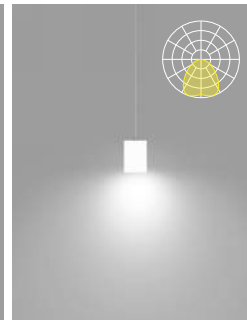
**HLO**  
High-Efficiency Lambertian  
Optic



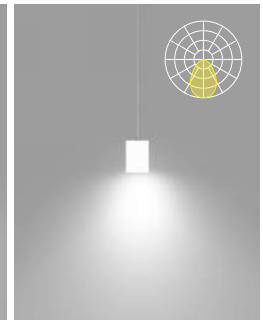
**ARO2**  
Asymmetric Refractive  
Optic



**WRO2**  
Wall Wash Refractive  
Optic

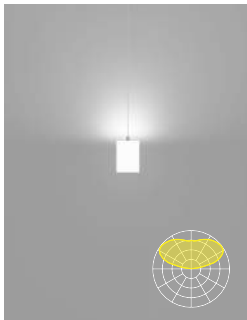


**WDO**  
Widespread Direct  
Optic

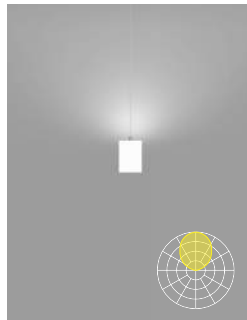


**LGO**  
Low-Glare  
Optic

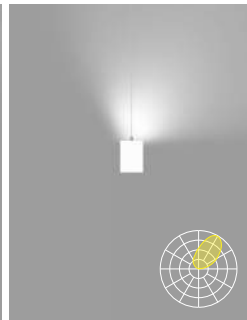
## INDIRECT OPTICS



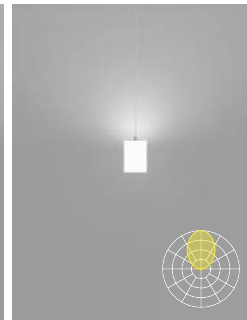
**WIO2**  
Widespread Indirect  
Optic



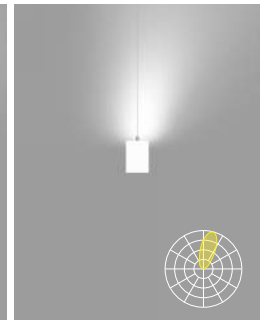
**TIO <sup>2</sup>**  
Translucent Indirect  
Optic



**WAI2**  
Widespread Asymmetric  
Indirect Optic



**HLO <sup>3</sup>**  
High-Efficiency Lambertian  
Optic



**ARO2 <sup>3</sup>**  
Asymmetric Refractive  
Optic

<sup>1</sup> Drop lens positions available with HLO direct lens only.

<sup>2</sup> Available with Direct/Indirect only.

<sup>3</sup> Available with Indirect only.

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VIA3-PENDANT-SPEC-REV2 October 24, 2022



# VIA 3 PENDANT

DIRECT/INDIRECT, DIRECT, INDIRECT  
STATIC WHITE, BIOS ST/DY

# LUMENWERX

Project: \_\_\_\_\_  
Type: \_\_\_\_\_

## Order Guide

LUMINAIRE ID	DISTRIBUTION	DIRECT OPTIC Specify NA for Indirect fixture	LENS POSITION	INDIRECT OPTIC Specify NA for Direct fixture	LIGHT SOURCE <sup>6</sup>
<b>VIA3P</b>					
<b>VIA3P</b> - Via 3" Pendant	<b>DI</b> - Direct/ Indirect <b>D</b> - Direct <b>I</b> - Indirect	<b>HLO</b> - High-Efficiency Lambertian Optic <b>ARO2</b> - Asymmetric Refractive Optic <b>WRO2</b> - Wall Wash Refractive Optic <b>WDO</b> - Widespread Direct Optic <b>LGO</b> - Low-Glare Optic <b>NA</b> - Not applicable	<b>FH</b> <sup>1</sup> - Flush <b>0.5D</b> <sup>1</sup> - 0.5" drop <b>1.0D</b> <sup>1</sup> - 1.0" drop <b>NA</b> <sup>2</sup> - Not applicable  <sup>1</sup> Available with HLO direct lens only. <sup>2</sup> Specify NA for Indirect fixture, or for all direct optics except for HLO.	<b>WIO2</b> <sup>3</sup> - Widespread Indirect Optic <b>TIO</b> <sup>3,4</sup> - Translucent Indirect Optic <b>WAI2</b> <sup>3</sup> - Widespread Asymmetric Indirect Optic <b>HLO</b> <sup>5</sup> - High-Efficiency Lambertian Optic <b>ARO2</b> <sup>5</sup> - Asymmetric Refractive Optic <b>NA</b> - Not applicable  <sup>3</sup> Not available with BIOS. <sup>4</sup> Available for Direct/Indirect only. <sup>5</sup> Available for Indirect only.	<b>SW</b> - Static white <b>BIOSST</b> <sup>7</sup> - Static biologically- optimized lighting <b>BIOSDY</b> <sup>7</sup> - Dynamic biologically- optimized lighting  <sup>6</sup> Chromawerx Sola, Duo and Quadro also available. Consult other spec sheets. <sup>7</sup> Only available with low and medium lumen packages.

CRI	DIRECT LUMEN PACKAGE (lm/ft) Specify NA for Indirect fixture						INDIRECT LUMEN PACKAGE (lm/ft) Specify NA for Direct fixture						COLOR TEMP.	LUMINAIRE LENGTH	VOLTAGE
<b>80</b> - 80 CRI <b>90</b> <sup>8</sup> - 90 CRI		Hypo <sup>9</sup>	Low	Med	High <sup>10</sup>	Hyper <sup>11,14</sup>		Hypo	Low	Med	High <sup>12</sup>	Hyper <sup>13,14</sup>	<b>27</b> <sup>15</sup> - 2700K <b>30</b> - 3000K <b>35</b> - 3500K <b>40</b> - 4000K	<b>#FT#IN</b> <sup>16</sup> - Specify nominal length (#) in 1' and/or 1" increments  <b>Standard nominal lengths:</b> Single units: 2' - 12' Continuous runs: lengths over 12'	<b>120</b> - 120V <b>277</b> - 277V <b>UNV</b> - 120V-277V <b>347</b> <sup>17</sup> - 347V
<sup>8</sup> Not available with BIOS.	HLO	<b>350</b>	<b>500</b>	<b>750</b>	<b>1000</b>	<b>1200</b>	WIO2	<b>350</b>	<b>500</b>	<b>750</b>	<b>1000</b>	<b>1200</b>	<sup>15</sup> Not available with BIOS.		
	ARO2	<b>350</b>	<b>500</b>	<b>750</b>	<b>1000</b>	<b>1200</b>	TIO	<b>350</b>	<b>500</b>	<b>750</b>	<b>1000</b>	<b>1200</b>			
	WRO2	<b>350</b>	<b>500</b>	<b>750</b>	<b>1000</b>	<b>1200</b>	WAI2	<b>350</b>	<b>500</b>	<b>750</b>	<b>1000</b>	<b>1200</b>			
	WDO	<b>350</b>	<b>500</b>	<b>750</b>	<b>1000</b>	<b>1200</b>	HLO	<b>350</b>	<b>500</b>	<b>750</b>	<b>1000</b>	<b>1200</b>			
	LGO	<b>350</b>	<b>500</b>	<b>750</b>	<b>1000</b>	<b>1200</b>	ARO2	<b>350</b>	<b>500</b>	<b>750</b>	<b>1000</b>	<b>1200</b>			
	<b>NA</b> - Not applicable						<b>NA</b> - Not applicable								
	<sup>9</sup> Minimum 3' fixture. <sup>10</sup> For Direct/Indirect, Indirect must not exceed 1000 lm/ft. <sup>11</sup> For Direct/Indirect, Indirect must not exceed 750 lm/ft.						<sup>12</sup> For Direct/Indirect, Direct must not exceed 1000 lm/ft. <sup>13</sup> For Direct/Indirect, Direct must not exceed 750 lm/ft. <sup>14</sup> Fixture will be very bright. Use in suitable applications.								

DRIVER <sup>18</sup>	ELECTRICAL		ELECTRICAL SECTIONS (optional) <sup>25,26</sup>			MOUNTING <sup>31</sup>	FINISH
<b>D1</b> - 1% 0-10V <b>DA</b> <sup>19</sup> - DALI <b>LTEA2W</b> <sup>20</sup> - Lutron 1% - 2 wire FP 120V <b>LDE1</b> <sup>19</sup> - Lutron Hi-lume 1% Eco <b>ELD1</b> - eldoLED 1% ECOdrive 0-10V <b>ELDO</b> - eldoLED 0.1% SOLOdrive 0-10V	<b>1C</b> - 1 circuit <b>2C</b> <sup>21</sup> - 2 circuits <b>#MC</b> <sup>22</sup> - Multi circuit <b>EC</b> - Emergency- powered fixture	<b>NL</b> - Night light fixture <b>DL</b> - Daylight fixture <b>GTD</b> <sup>23,24</sup> - Generator transfer device fixture	<b>#EC##</b> <sup>27</sup> - Emergency-powered section <b>#NL##</b> <sup>27</sup> - Night light section <b>#DL##</b> <sup>27</sup> - Daylight section <b>#GTD##</b> <sup>27,28,29</sup> - Generator transfer device section <b>#EMB</b> <sup>29,30</sup> - Emergency battery <b>NA</b> - None			<b>ACS</b> - Aircraft cable, standard <b>STS</b> - Stem, standard <b>ACC()</b> - Aircraft cable, custom <b>STC()</b> - Stem, custom	<b>W</b> - Matte white <b>AL</b> - Aluminum <b>B</b> - Matte black <b>CF#</b> - Custom finish, specify RAL#
<sup>18</sup> PoE (Power-over-Ethernet) compatible. Consult factory for details. <sup>19</sup> On-site commissioning is required. <sup>20</sup> Available with 120V only.	<sup>21</sup> Available for Direct/Indirect only. Separate direct and indirect circuits. <sup>22</sup> Specify total number of circuits (#), including any required for electrical section or COB options. Provide drawing or layout specifications. Minimum 4' section per circuit. <sup>23</sup> Minimum 4' fixture. <sup>24</sup> Not available with 347V.		<sup>25</sup> Specify with multi circuit (#MC) electrical option only. <sup>26</sup> Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. <sup>27</sup> Specify quantity (#), and section length in inches (##). <sup>28</sup> Minimum 4' section. <sup>29</sup> Not available with 347V. <sup>30</sup> Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section. For Direct/Indirect, minimum 8' fixture.			<sup>31</sup> See page 3 for ordering details.	

CONTROL <sup>32</sup>	OPTIONS		LED DOWNLIGHT <sup>39,40</sup>	COB CRI	COB LUMEN PACK.	COB COLOR TEMP.
<b>STANDALONE CONTROLS</b> <sup>33,34</sup> Specify the quantity (#) of sensors per fixture. <b>#OMS</b> <sup>35</sup> - Onboard Occupancy <b>#OMSX</b> <sup>36</sup> - Onboard Occupancy with bi-level dimming <b>#ODS</b> - Onboard Daylight <b>#OCS</b> - Onboard Occupancy & Daylight	<b>CONNECTED CONTROLS</b> <sup>37</sup> <b>LU</b> - Lutron <b>EN</b> - Enlighted <b>ENC</b> - Encelium <b>WL</b> - Cooper Wavelinx <b>AN</b> - Acuity nLight <b>CA</b> - Casambi <b>LG</b> - Legrand	<b>FUI20</b> - Fuse 120V <b>FU277</b> - Fuse 277V <b>CTB9</b> <sup>38</sup> - T-bar caddy clip, 9/16" <b>CTB15</b> <sup>38</sup> - T-bar caddy clip, 15/16" <b>CTG9</b> <sup>38</sup> - Tegular caddy clip, 9/16" <b>CTG15</b> <sup>38</sup> - Tegular caddy clip, 15/16" <b>CST</b> <sup>38</sup> - Screw slots caddy clip <b>NA</b> - None  <sup>38</sup> Available with aircraft cable only.	<b>#COB20</b> - COB 20° <b>#COB30</b> - COB 30° <b>#COB40</b> - COB 40°  <sup>39</sup> LED downlight available with Direct only. <sup>40</sup> Minimum 4' fixture and minimum 2' section per COB. Consult factory for other configurations.	<b>80</b> - 80 CRI <b>90</b> - 90 CRI <b>97</b> - 97 CRI	<b>600</b> - 600 lm <b>1200</b> - 1200 lm <b>1800</b> - 1800 lm	<b>27</b> - 2700K <b>30</b> - 3000K <b>35</b> - 3500K <b>40</b> - 4000K
<sup>32</sup> Standalone and connected control options cannot be combined. <sup>33</sup> Available with D1 driver and 1 circuit options only. <sup>34</sup> Minimum 4' per zone. Provide control zone length. <sup>35</sup> Fixture turns off when no occupancy. <sup>36</sup> Fixture dims to specified light level % (X). <sup>37</sup> Consult factory for connected controls.						

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VIA3-PENDANT-SPEC-REV2 October 24, 2022



**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LS11**

# VIA 3 PENDANT

## LUMENWERX

DIRECT/INDIRECT, DIRECT, INDIRECT  
STATIC WHITE, BIOS ST/DY

## Pendant Mounting Code

### Standard

For a standard mounting, please refer to the information below.

MOUNTING	
ACS - Aircraft cable, standard	STS - Stem, standard
Ø5" for power canopy Ø3" for non-power Canopies are white Power cord is white for all fixture finishes (except black fixture is black power cord) Aircraft cable length is 36"	Ø5" for power canopy Ø5" for non-power Canopies are white Stem finish is the same color as fixture Stem length is 18" Stem is not field adjustable

### Custom

#### Aircraft Cable

For a custom mounting, specify the options in the parentheses.

Example: ACC(3NPC-72-W-PCB-SLC)

MOUNTING					
ACC()					
	NON-POWER CANOPY SIZE	AIRCRAFT CABLE LENGTH	CANOPY FINISH	POWER CORD COLOR	OPTIONS
ACC	3NPC - Ø3" non-power canopy 5NPC - Ø5" non-power canopy	36 - 36" 72 - 72" 120 - 120" # 1 - Other lengths, specify in inches <sup>1</sup> Maximum length is 288". For longer lengths, please consult factory.	W - White AL - Aluminum B - Black CF# - Custom finish, specify RAL#	PCW - White PCB - Black	SEM - Seismic mounting SLC - Sloped ceiling for aircraft cable NA - None

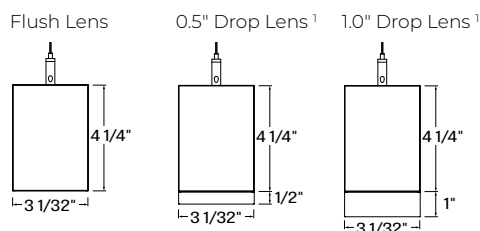
#### Stem

For a custom mounting, specify the options in the parentheses.

Example: STC(5NPC-36-W-STW-SLS)

MOUNTING					
STC()					
	NON-POWER CANOPY SIZE	STEM LENGTH	CANOPY FINISH	STEM COLOR	OPTIONS
STC	5NPC - Ø5" non-power canopy	18 - 18" 36 - 36" # 2 - Specify length in inches <sup>2</sup> Minimum length is 6". Maximum length is 72". Stem is not field adjustable.	W - White AL - Aluminum B - Black CF# - Custom finish, specify RAL#	STW - White STAL - Aluminum STB - Black STCF# - Custom finish, specify RAL#	SLS - Sloped ceiling for stem NA - None

## Dimensions



<sup>1</sup> Drop lens positions available with HLO direct lens only.

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Fixture Type:

**LS11**

Page 3 of 9

# VIA 3 PENDANT

LUMENWERX

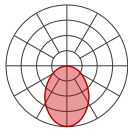
DIRECT/INDIRECT, DIRECT, INDIRECT  
STATIC WHITE, BIOS ST/DY

## Photometrics

### DIRECT OPTICS

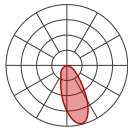
Delivered lumens at 35K at 80 CRI for all optics.

#### HLO (Flush Lens)



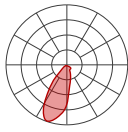
LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
350	1400	11.2	125
500	2000	16.2	123
750	3000	25.1	119
1000	4000	34.6	116
1200	4800	42.5	113

#### ARO2



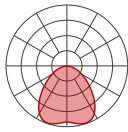
LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
350	1400	12.1	116
500	2000	17.7	113
750	3000	27.9	107
1000	4000	39.0	103
1200	4800	48.3	99

#### WRO2



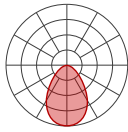
LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
350	1400	12.1	116
500	2000	17.8	112
750	3000	28.0	107
1000	4000	39.1	102
1200	4800	48.5	99

#### WDO



LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
350	1400	11.8	118
500	2000	17.2	116
750	3000	26.6	113
1000	4000	36.6	109
1200	4800	45.1	106

#### LGO

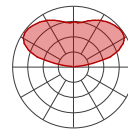


LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
350	1400	13.0	108
500	2000	18.9	106
750	3000	29.4	102
1000	4000	40.6	98
1200	4800	50.0	96

### INDIRECT OPTICS

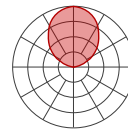
Delivered lumens at 35K at 80 CRI for all optics.

#### WIO2



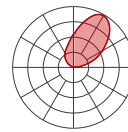
LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
350	1400	9.6	146
500	2000	14.0	142
750	3000	21.9	137
1000	4000	30.4	132
1200	4800	37.5	128

#### TIO



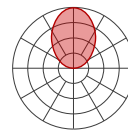
LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
350	1400	11	127
500	2000	16.1	124
750	3000	25.3	119
1000	4000	35.2	114
1200	4800	43.6	110

#### WAI2



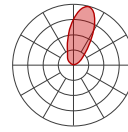
LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
350	1400	10.1	139
500	2000	14.8	135
750	3000	23.2	130
1000	4000	32.1	125
1200	4800	39.9	120

#### HLO



LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
350	1400	11.2	125
500	2000	16.2	123
750	3000	25.1	119
1000	4000	34.6	116
1200	4800	42.5	113

#### ARO2



LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
350	1400	12.1	116
500	2000	17.7	113
750	3000	27.9	107
1000	4000	39.0	103
1200	4800	48.3	99

### MULTIPLIER TABLES

Use these tables to get results for different color temperatures, CRI, and drop lenses, for all Direct and Indirect photometric tables.

#### Multiplier - CCT/CRI

CCT (K)	WATTS		LPW	
	CRI 80	CRI 90	CRI 80	CRI 90
2700	1.05	1.26	0.95	0.79
3000	1.01	1.23	0.99	0.81
3500	1.00	1.20	1.00	0.84
4000	1.00	1.17	1.00	0.85

#### Multiplier - Drop Lens

DIRECT LENS	WATTS	LPW
Flush Lens	1.00	1.00
Drop Lens 0.5"	0.98	1.02
Drop Lens 1.0"	0.96	1.04

### DIRECT/INDIRECT - LPW CALCULATION EXAMPLE

For Direct/Indirect performance values, follow the below formula.

$$\left( \frac{\text{DIRECT TOTAL LM/4FT}}{\text{DIRECT INPUT WATTS}} + \frac{\text{INDIRECT TOTAL LM/4FT}}{\text{INDIRECT INPUT WATTS}} \right) = \text{LPW}$$



# VIA 3 PENDANT

LUMENWERX

DIRECT/INDIRECT, DIRECT, INDIRECT  
STATIC WHITE, BIOS ST/DY

## Photometrics

### COB

Use these tables to get results for different color temperatures for all COB photometric tables.

#### COB Multiplier - CCT

CCT (K)	MULTIPLIER
2700	1.09
3000	1.03
3500	1.00
4000	0.98

#### COB Wattage

COB ANGLE	CRI 80									CRI 90								
	20			30			40			20			30			40		
Lumen	600	1200	1800	600	1200	1800	600	1200	1800	600	1200	1800	600	1200	1800	600	1200	1800
Wattage	5.8	11.7	18.1	6.0	11.9	18.3	6.4	12.6	19.4	7.0	14.1	22.3	7.0	14.3	22.7	7.4	15.3	24.6





# VIA 3 PENDANT

DIRECT/INDIRECT, DIRECT, INDIRECT  
STATIC WHITE, BIOS ST/DY

## LUMENWERX

## Technical Specifications

### DIRECT OPTICS

#### High-Efficiency Lambertian Optic (HLO)

The High-Efficiency Lambertian Optic (HLO) uses matte white reflectors to distribute LED output across 0.075" acrylic shielding, providing up to 88% transmission and good obscuration. Available as a flush lens or as a drop lens, the HLO has a spacing criterion of 1.10.

#### Asymmetric Refractive Optic (ARO2)

The Asymmetric Refractive Optic (ARO2) uses a sophisticated reflector combined with a matte beam-shaping film to create a smooth, effective downward light component without shadows or hot spots. It provides directional Gaussian light distribution with peak intensity at 20° above nadir and a 55° Full Width at Half Maximum (FWHM) beam angle. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

#### Wall Wash Refractive Optic (WRO2)

The Wall Wash Refractive Optic (WRO2) delivers smooth vertical illumination with a gentle gradient and soft visual cut-off. Its exacting configuration creates a strong downward light component without shadows or hot spots and provides light distribution with peak intensity at 21° above nadir. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

#### Widespread Direct Optic (WDO)

The Widespread Direct Optic (WDO) is designed to distribute light far and wide. As such, it has an excellent luminous efficacy, a light span that is 40% farther than that of our traditional HLO, and it maximizes spacing distance while still creating a sense of uniformity. The lens snaps into place and utilizes nano prismatic optics to mask the diodes that are actually emitting the light.

#### Low-Glare Optic (LGO)

The Low-Glare Optic (LGO) is designed to cut off high-angled light and control glare. The carefully crafted lens refracts light downward through its center from which it then disperses into a wide conical distribution that negates any illumination at about 40°. The LGO provides the visual comfort of a louver in a smooth acrylic lens.

### INDIRECT OPTICS

#### Widespread Indirect Optic (WIO2)

The Widespread Indirect Optic (WIO2) is a horizontal LED array with a widespread indirect micro prismatic optic that offers an impressive 160° spread. WIO2 creates an even illumination for smooth brightness on the ceiling that can achieve uniformity ratios of up to 2:1.

#### Uniformity [max/min]

Based on 18' continuous runs, in a 20' x 40' room, 10' wall height

Mounting height from ceiling	Spacing (Center to center)		
	8'	10'	12'
12"	5.5	10.0	9.0
18"	6.5	6.0	6.0
24"	2.5	4.0	4.5

#### Translucent Indirect Optic (TIO)

The Translucent Indirect Optic (TIO) is composed of a horizontal LED array that has a translucent lens to mask pixilation from the diodes. TIO has a 100° spread in the indirect that is ideal when the fixture is mounted farther away from the ceiling.

#### Widespread Asymmetric Indirect Optic (WAI2)

The Widespread Asymmetric Indirect Optic (WAI2) offers an upward grazing effect with a 45° forward throw. It softly highlights the ceiling in the up-light while distributing the required illumination of the rest of an interior space. For avoiding glare and enjoying visual comfort, WAI2 is an ideal solution.

#### High-Efficiency Lambertian Optic (HLO)

The High-Efficiency Lambertian Optic (HLO) uses matte white reflectors to distribute LED output across 0.075" acrylic shielding, providing up to 88% transmission and good obscuration. HLO has a spacing criterion of 1.10.

#### Asymmetric Refractive Optic (ARO2)

The Asymmetric Refractive Optic (ARO2) uses a sophisticated reflector combined with a matte beam-shaping film to create a smooth, effective downward light component without shadows or hot spots. It provides directional Gaussian light distribution with peak intensity at 20° above nadir and a 55° Full Width at Half Maximum (FWHM) beam angle. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.



# VIA 3 PENDANT

DIRECT/INDIRECT, DIRECT, INDIRECT  
STATIC WHITE, BIOS ST/DY

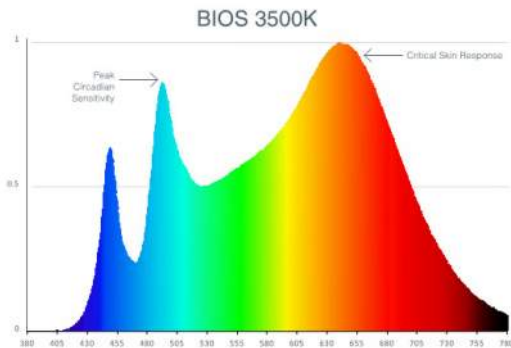
## LUMENWERX

### LIGHT SOURCE

Custom linear array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K and 4000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operate at reduced drive current to optimize efficacy and lumen maintenance. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.



BIOS SkyBlue™ Technology is designed to provide the specific circadian stimulus to improve overall sleep quality, recovery during the night, and overall feelings of well-being. The non-visual light signals that stimulate our circadian system have peak intensity in the "sky blue" region. As the diagram below illustrates, BIOS SkyBlue technology shifts the peak LED spectral intensity (490 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.



### LUMINAIRE LENGTH

Via 3 is available in standard lengths of 2' to 12'. Continuous runs are available for run lengths over 12'. Exact run length must be noted in the product code. The minimum length is 2' for Direct or Indirect fixtures, and 3' for Direct/Indirect fixtures. Lengths can be ordered in 1' and/or 1" increments. All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.

### ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% (specify 2-wire, or Ecosystem Dim-to-Off), eldoLED 1% ECODrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

### PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, Duo (tunable white), Quadro (RGBW) emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

### ELECTRICAL SECTION OPTIONS

Electrical section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional electrical sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

### Electrical sections

Options include emergency-powered (#EC##), night light (#NL##), daylight (#DL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in inches (##).

Example 1: A 32' Direct fixture with two 8' emergency-powered sections on a second circuit.

Code: 2MC-2EC96

Example 2: A 16' Direct/Indirect fixture with separate circuits for direct and indirect, and with one 4' night light section on the direct side on a third circuit.

Code: 3MC-1NL48

Example 3: A 24' Direct fixture with one 4' generator transfer device section.

Code: 1MC-1GTD48

### Battery

Each emergency battery (#EMB) powers a 4' section. All batteries will be on the same circuit. Specify the number of batteries (#) required.

Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours.

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9  
T (514) 225-4304 F (514) 931-4862  
[www.lumenwerx.com](http://www.lumenwerx.com)



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VIA3-PENDANT-SPEC-REV2

October 24, 2022



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**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LS11**

Page 7 of 9

# VIA 3 PENDANT

DIRECT/INDIRECT, DIRECT, INDIRECT  
STATIC WHITE, BIOS ST/DY

## LUMENWERX

### MOUNTING OPTIONS

Fixtures can be pendant-mounted, using aircraft cables, or stem-mounted. Unless otherwise specified, Lumenwerx provides the following hardware:

**Standard aircraft cable option (ACS)** - Canopies are white, Ø5" for power canopy, Ø3" for non-power. Power cord is black for black fixtures, and white for all other fixture finishes. Aircraft cable length is 36".

**Standard stem option (STS)** - Canopies are white, Ø5" for both power and non-power. Stem finish is the same color as fixture. Stem length is 18". Stem is not field adjustable.

**Caddy clips**, if required specify under OPTIONS

For all other options, see the mounting code on page 3.

### FINISH

**Interior** - 95%, reflective matte powder coated white paint

**Exterior** - Matte white, matte black, or aluminum powder coating. Custom finishes are also available.

### CONTROLS

Lumenwerx offers several options for integrating occupancy and daylight harvesting controls in our luminaires.

For latest information on sensors, click [here](#).



### STANDALONE CONTROLS

An integrated standalone sensor controls the luminaire in which it is installed. Depending on the length, more than one sensor may be necessary and may control the entire luminaire, or just a section of it. These controls operate independently. Unless otherwise agreed, sensor location, blank size, and functionality of the sensor within the luminaire are selected by Lumenwerx. See client drawings for details.

Three types are available:

**OMS:** An integral Passive InfraRed (PIR) sensor turns luminaires on and off automatically with field-adjustable time out period. No wall control is used. Coverage pattern for large motion has a 12' diameter with the sensor mounted 8' above the floor; for small motion, the pattern has an 8' diameter. Typically, one sensor is required for every 10' of a continuous luminaire run.

**ODS:** An integral, daylight harvesting sensor with closed-loop operation dims the luminaire in which it is installed in order to compensate for available daylight. The sensor measures the combination of daylight and luminaire light reflected from horizontal surfaces below the luminaire. Initial onsite calibration is required via the use of provided remote control.

**OCS:** Both an occupancy and a daylight sensor are installed in the luminaire.

### CONNECTED CONTROLS

With connected controls, sensors or nodes installed in the luminaire form part of a larger control system infrastructure from manufacturers such as: Lutron, Enlighted, Encelium, Cooper Wavelinx, Acuity nLight, Casambi, Legrand, and others. These connected controls allow for a scalable system providing features like occupancy and daylight control, manual control, scheduling and configuration of various zones and scenes. Energy reporting and system monitoring are also possible. Specific capabilities depend on the control system being used.

Lumenwerx installs the components (sensors, nodes, power packs, etc) which may be supplied to us by a third party, or procured directly by Lumenwerx, depending on the control system manufacturer.

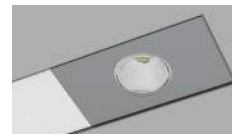
Lumenwerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.

To indicate a Lumenwerx luminaire with connected controls, identify the specific onsite control system to be integrated into the luminaires using the ordering code. Due to the diversity of components, you must contact factory to assure complete compatibility with intended control system and to fully specify the luminaire.

Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for Lumenwerx to create shop drawings and submittals.

### COB

Fixtures with Chip On Board (COB) technology are able to provide a maximum output of 1800 lumens from a discrete 50 mm aperture on 8 inch centers. Standard CRI is 80, for 90 and 97 CRI with elevated R9 values, please consult factory. Standard 20°, 30° and 40° beam angles are available, as are custom angles prior factory approval. All our Chip On Board products have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 50 000 hours.



Chip On Board (COB)



# VIA 3 PENDANT

DIRECT/INDIRECT, DIRECT, INDIRECT  
STATIC WHITE, BIOS ST/DY

## LUMENWERX

### CONSTRUCTION

**Housing** - Extruded aluminum, up to 90% recycled content

**Interior brackets** - Die-formed cold rolled sheet steel

**Joining system** - Die-cast zinc

**Reflectors** - Cold rolled steel die-formed, 95% reflective matte white painted

**Lens** - Acrylic or polycarbonate

**Drop lens** - Extruded with glued end caps

**End caps** - Die-cast aluminum

**Hanger** - Chromed griplock securely attached with spring steel hardware in end caps and/or joiners

**Aircraft cable suspension** - 7x7 braids aluminum aircraft cable 0.06" thick

**Stem** - 0.5" diameter threaded steel tube matte white or aluminum powder coating. Custom finishes are also available.

### CERTIFICATIONS

**ETL** - Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

**DLC** - Certain configurations have been DLC certified. Consult factory for details.

### WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

### WEIGHT

Direct/Indirect	Direct or Indirect
<b>4ft</b> - 13.23 lbs - 6.0 kg	<b>4ft</b> - 11.12 lbs - 5.05 kg
<b>8ft</b> - 26.48 lbs - 12.0 kg	<b>8ft</b> - 22.25 lbs - 10.1 kg
<b>12ft</b> - 39.84 lbs - 18.0 kg	<b>12ft</b> - 33.48 lbs - 15.2 kg



Project Name

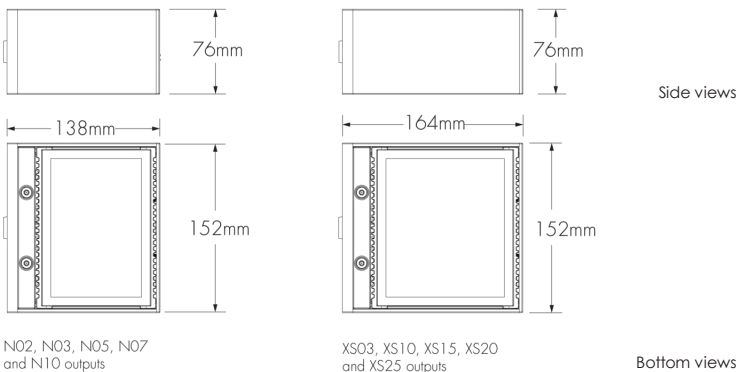
Qty

Type

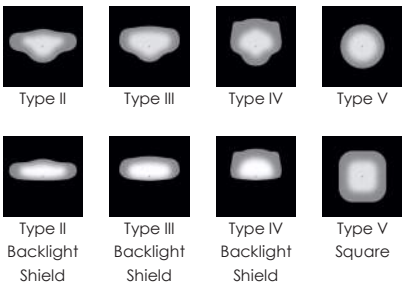
Catalog / Part Number



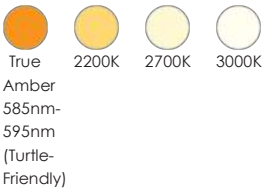
W1H2 Wall Mount Option Shown



Distributions



Colour and Colour Temperature



Control

ON/OFF    0-10V

Ratings

IP66 (optical chamber) IK06 (lens) IK10\* (frame)  
\*IK10 polycarbonate lens option available, consult factory.

Description

The Lumenpulse Lumenblade Nano is an outdoor LED luminaire that uses a rectilinear version of the Lumencentro light engine to create a continuous line of light. Side Mount or Wall Mount options are available. Its seen-but-not-seen, minimalist design is sustainable, blends with both contemporary and heritage architectures, provides a high level of security, and is sensitive to the natural environment with DarkSky approval, low outputs, and with a BUG rating of 0.

Features

Mounting	Side Mounting, Wall Mounting
Colour and Colour Temperature	True Amber 585nm-595nm (Turtle-Friendly), 2200K, 2700K, 3000K
Distributions	Type II, Type III or Type IV (with or without backlight shield), Type V, Type V square
Optical Option (factory installed)	Louvre
Vibration Rating	Meets ANSI C136.31-2018 vibration rating for Bridge & Overpass applications
Option	Vibration Rated for Bridge and Overpass Corrosion-resistant Coating for Hostile Environments
Warranty	5-year limited warranty
Performance	
Output (Nominal Lumens)	Minimum 200lm/ Maximum 2500lm
Efficacy	Up to 127 lm/W (XS10 lumen output, 3000K, CRI 80 , Type VS)
Colour Rendering	3 SDCM for CRI 70+, 2 SDCM for CRI 80+ and CRI 90+
Lumen Maintenance	TM-21 L70 > 145,000 hrs (reported, Ta 25 - 50 °C [77 - 122 °F])
DarkSky	DarkSky Approved (2200K, 2700K, 3000K and Amber colour temperatures, BUG rating of U0)



DarkSky Certification



Certifications



Physical

Housing Material	Extruded aluminium 6000 alloy series
Lens Material	Optical tempered clear glass (Clearsite lens), Optical tempered frosted glass (Frostsight lens), Optical tempered half-frosted glass (Half-Frostsight lens)
Surface Finish	Super durable resistant exterior polyester powder coating meets AAMA 2604-98 requirements (5-years Florida exposure). A corrosion resistant finish (CRC) pre-finish is available to meet ASTM B-117 & ASTM D-1654 (salt spray resistance) and ASTM D-2247 requirements (humidity resistance).
Weight	0.85 kg to 2.2 kg, refer to EPA and fixture weight tables for details

Electrical and Control

Voltage	120 volts, 208 volts, 240 volts, 277 volts
Control	On/Off Control, 0-10V Dimming

Environmental

Storage Temperature	-40°C to 50°C [-40°F to 122°F] (device must reach start-up temperature value before operating)
Operating Temperature	-40°C to 50°C [-40°F to 122°F]
Start-up Temperature	-25°C to 50°C [-13°F to 122°F]
Ingress Protection Rating	IP66 (optical chamber) Wet location rated
Impact Resistance Rating	IK06 (glass lens) IK10 (frame) *IK10 polycarbonate lens option available, consult factory
Environment	Dry/damp/wet location

EPA And Fixture Weight Tables

\*Fixture weights are estimated.

N02, N03, N05, N07 And N10 Output (Board With 4 LEDs)

		SD-RPA6N SD-RPA6TN	SD-SPA6N	SD-SPA6TN	SD-RPA8N SD-RPA8TN	SD-SPA8N SD-SPA8TN
EPA (sq m.)	S1E	0.016	0.016	0.016	0.016	0.016
	S2E	0.032	0.032	0.032	0.032	0.032
Weight* (kg)	S1E	1.01	0.85	0.86	0.93	0.85
	S2E	2.01	1.70	1.72	1.87	1.70

	WM-W1H2	WM-W1H4	WM-W1HSJB
EPA (sq m.)	0.016	0.016	0.027
Weight* (kg)	0.848	0.998	1.751

XS03, XS10, XS15, XS20 And XS25 Output (Board With 8 LEDs)

		SD-RPA6N SD-RPA6TN	SD-SPA6N	SD-SPA6TN	SD-RPA8N SD-RPA8TN	SD-SPA8N SD-SPA8TN
EPA (sq m.)	S1E	0.018	0.018	0.018	0.018	0.018
	S2E	0.037	0.037	0.037	0.037	0.037
Weight* (kg)	S1E	1.10	0.94	0.95	1.02	0.94
	S2E	2.20	1.88	1.90	2.05	1.88

	WM-W1H2	WM-W1H4	WM-W1HSJB
EPA (sq m.)	0.019	0.019	0.030
Weight* (kg)	0.939	1.089	1.842

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www.lumenpulse.com www.lumenpulse.com/products/3768

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**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch  
**Date:** Issued for Tender - April 1, 2025


Fixture Type:

**LW1**


**Photometric Information**
**Type II, 3000K, CRI 80+, Clearsite Lens**

	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating			Typical maximum power 120/277V (W)
	N03	204	68	0	0	0	3
	N05	408	68	0	0	0	6
	N07	641	71	0	0	0	9
	N10	835	76	0	0	0	11
	XS10	962	96	0	0	0	10
	XS15	1,366	80	1	0	1	17
	XS20	1,721	69	1	0	1	25
	XS25	2,176	73	1	0	1	30

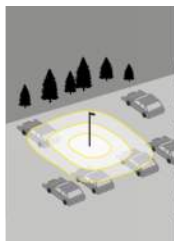
**Type III, 3000K, CRI 80+, Clearsite Lens**

	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating			Typical maximum power 120/277V (W)
	N03	223	74	0	0	0	3
	N05	446	74	0	0	0	6
	N07	701	78	0	0	0	9
	N10	913	83	0	0	0	11
	XS10	1,014	101	0	0	0	10
	XS15	1,440	85	1	0	1	17
	XS20	1,814	73	1	0	1	25
	XS25	2,294	76	1	0	1	30

**Type IV, 3000K, CRI 80+, Clearsite Lens**

	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating			Typical maximum power 120/277V (W)
	N03	187	62	0	0	0	3
	N05	374	62	0	0	0	6
	N07	588	65	0	0	0	9
	N10	767	70	0	0	0	11
	XS10	867	87	0	0	0	10
	XS15	1,232	72	1	0	1	17
	XS20	1,552	62	1	0	1	25
	XS25	1,963	65	1	0	1	30

**Type V Square, 3000K, CRI 80+, Frostsite Lens**

	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating			Typical maximum power 120/277V (W)
	N03	226	75	0	0	0	3
	N05	451	75	0	0	0	6
	N07	709	79	0	0	0	9
	N10	923	84	0	0	0	11
	XS10	1,094	109	0	0	0	10
	XS15	1,554	91	1	0	1	17
	XS20	1,957	78	1	0	1	25
	XS25	2,476	83	1	0	1	30

Photometric performance is measured in compliance with IESNA LM-79-19. Due to rapid and continuous advances in LED technology, photometric information is subject to change without notice.

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**ALULA Lighting Design**  
 155 Gordon Baker Road, Suite 200  
 Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LW1**

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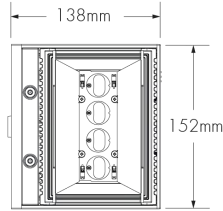
## Dimensions

N02, N03, N05, N07 And N10 Output (Board With 4 LEDs)

### W1H2, SPA6N, SPA8N and SPA8TN



Side view

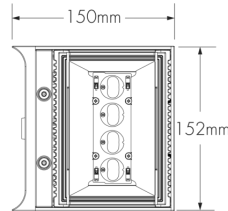


Bottom view

### SPA6TN



Side view

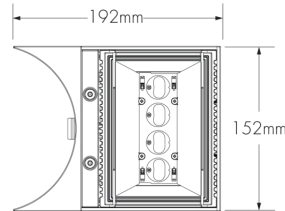


Bottom view

### RPA6N And RPA6TN



Side view

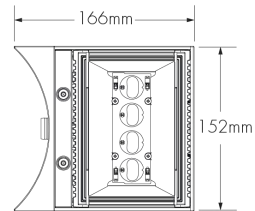


Bottom view

### RPA8N And RPA8TN

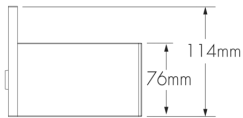


Side view

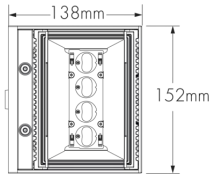


Bottom view

### W1H4

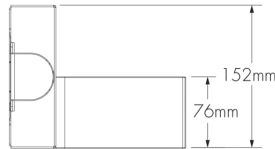


Side view

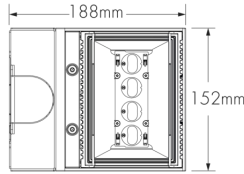


Bottom view

### W1HSJB



Side view



Bottom view

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**ALULA Lighting Design**  
155 Gordon Baker Road, Suite 200  
Toronto, Ontario M2H 3N5 tel: 416.646-2955

**Project:** Toronto Public Library - Pleasant View Branch

**Date:** Issued for Tender - April 1, 2025

Fixture Type:

**LW1**

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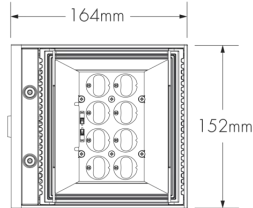


**XS03, XS10, XS15, XS20 And XS25 Output (Board With 8 LEDs)**

**W1H2, SPA6N, SPA8N and SPA8TN**



Side view

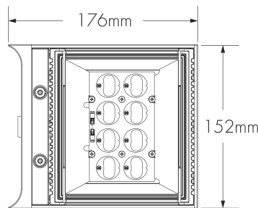


Bottom view

**SPA6TN**



Side view

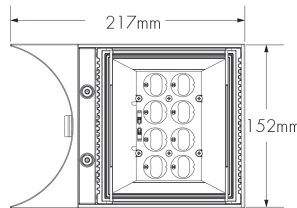


Bottom view

**RPA6N And RPA6TN**



Side view

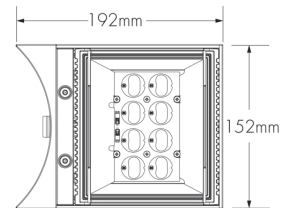


Bottom view

**RPA8N And RPA8TN**



Side view

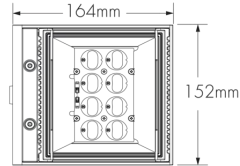


Bottom view

**W1H4**



Side view

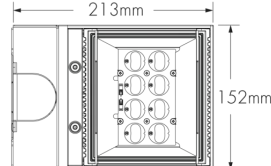


Bottom view

**W1HSJB**



Side view

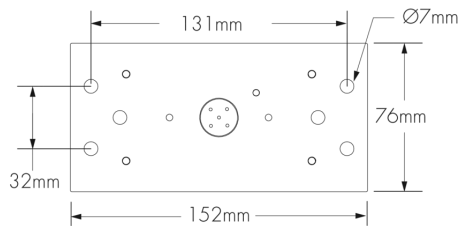


Bottom view

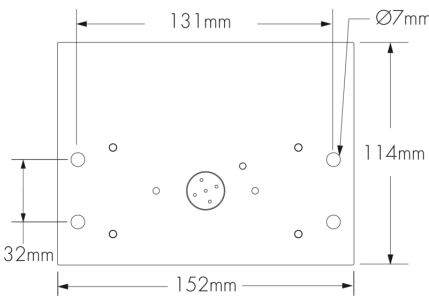


Mounting Details

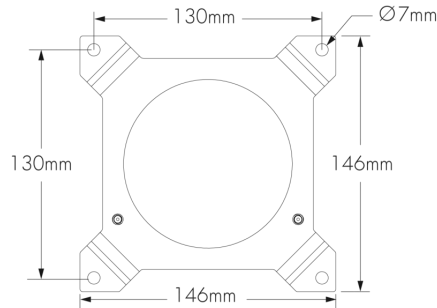
BLDN-WM-W1H2 Mounting Plate Details



BLDN-WM-W1H4 Mounting Plate Details



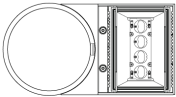
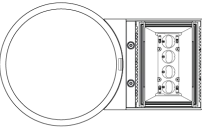
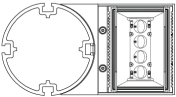
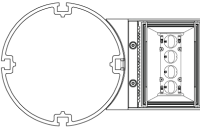

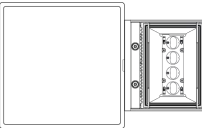
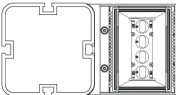
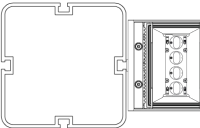
BLDN-WM-W1HSJB Mounting Plate Details



The WM-W1HSJB mounting is designed for installation on a round exterior (weatherproof) surface junction box (Ø102 mm diameter and 41 mm deep) that accommodates up to 3/4" NPT trade size conduit. For all other types of junction boxes, consult the factory.



BLDN-SD Pole Mounting Option

	Straight and muffler poles		Lumentech pole	
	152mm	203mm	152mm	203mm
Round shape	RPA6N 	RPA8N 	RPA6TN 	RPA8TN 
Square shape	SPA6N 	SPA8N 	SPA6TN 	SPA8TN 

BLDN-SD with 4 LEDs shown.

Available configurations:

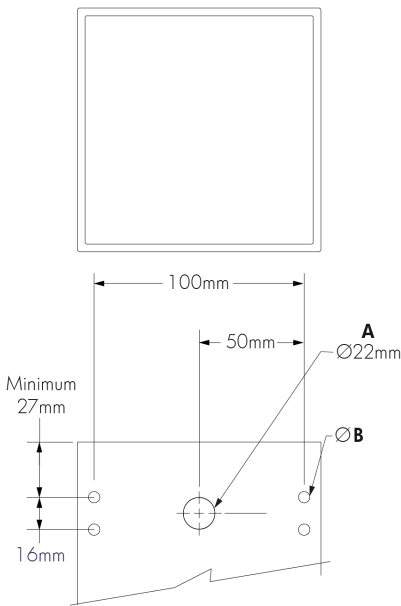
- S1E    Single pole-top
- S2E    Double pole-top
- S1X    Variable Height Mounting Arm

\*Consult factory for other configurations.



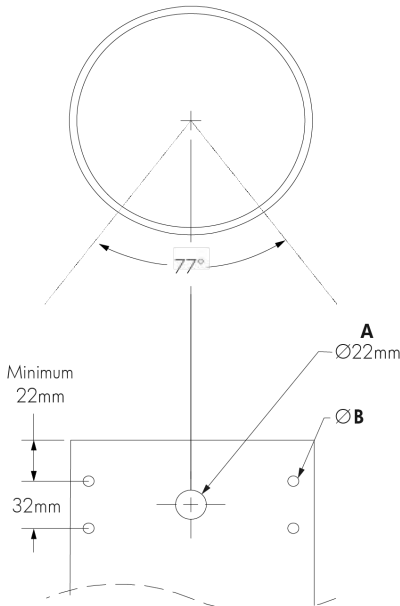
BLDN-SD Poles Drilling Patterns

SPA6N, SPA6TN, SPA8N and SPA8TN



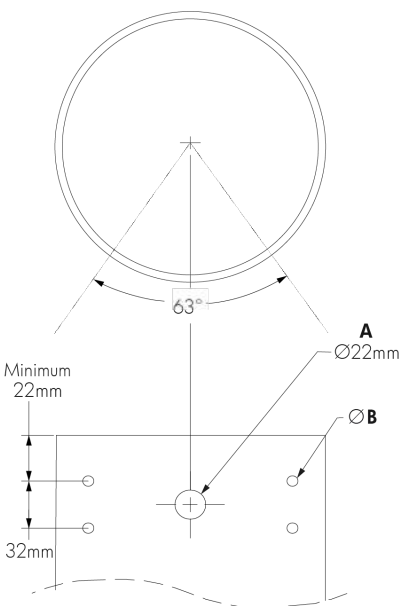
152 mm or 203 mm Square pole mount.

RPA6N And RPA6TN



152 mm Ø round pole mounting.

RPA8N And RPA8TN



203 mm Ø round pole mounting.

A - Wire feeding location

B - S1E and S2E pole configuration

7 mm drilling holes. Nylon nuts (x4) and screws (4x) 1/4-20 x 32 mm provided by lumenpulse.

S1X pole configuration

1/4-20 threaded holes. Screws (4x) 1/4-20 x 32 mm provided by lumenpulse.

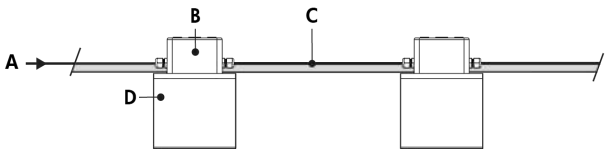


Typical Wiring Diagrams

Wiring Colour Code

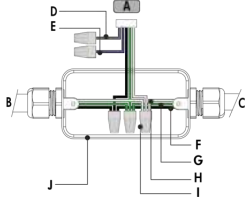
Color	Black	White	Green	Purple	Gray
Use	Line	Line/Neutral	Ground	0 -10V +	0 -10V -

On/Off Control (NO)



- A - Power input (120-277V)
- B - Junction box (by others)
- C - Power wiring (by others)
- D - Lumenblade Nano Wall Mount

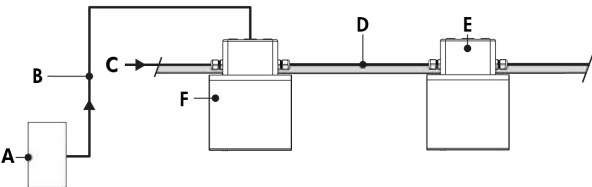
On/Off Control (NO) - Wiring Detail



- A - To fixture
- B - Power input or from previous fixture
- C - To next fixture
- D - Not required
- E - Not required
- F - Line
- G - Ground
- H - Neutral
- I - Wire-nuts
- J - Junction box (by others)

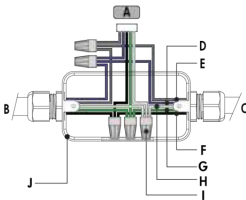
- Consult factory for specific applications and maximum fixture count/cable length recommendations.

0-10V Dimming (DIM)



- A - Dimmer (by others)
- B - Data wiring (by others)
- C - Power input (120-277V, wiring by others)
- D - Conduit (by others)
- E - Junction box (by others)
- F - Lumenblade Nano Wall mount

0-10V Dimming (DIM) - Wiring Detail



- A - To fixture
- B - Power input or from previous fixture
- C - To next fixture
- D - 0-10V +
- E - 0-10V -
- F - Line
- G - Ground
- H - Neutral
- I - Wire-nuts
- J - Junction box (by others)

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 0-10V mA ratings: passive dimmer (Current Sink): 3mA per fixture, active dimmer (Current Source): 0.5mA per fixture.
- 1% minimum dimming value.



How to Order

Housing	Mounting	Voltage	Lens <sup>(5)</sup>	Output (Nominal Lumens) <sup>(1)</sup>	Colour and Colour Temperature	Colour Rendering	Distributions	Optical Option	Finish	Control	Option
BLDN Lumenblade Nano	SD Side Mounting <sup>(1)</sup>	120 120 volts	CSL Clearsite Lens <sup>(4)</sup>	N02 200lm (4 LEDs) <sup>(6)</sup> <sup>(10) (11)</sup>	AMB True Amber 585nm- 595nm (Turtle- Friendly)	CRI 70 CRI 70+ <sup>(12)</sup>	2 Type II	LV Louvre <sup>(4)</sup> <sup>(13) (14)</sup>	BK Black Sandtex®	DIM 0-10V Dimming <sup>(20)</sup>	VRBO Vibration Rated for Bridge and Overpass <sup>(21) (22) (23)</sup>  CRC Corrosion-resistant coating <sup>(24) (25)</sup>
	WM Wall Mounting <sup>(2) (3) (4)</sup>	208 208 volts	FSL Frostsie Lens <sup>(7)</sup>	N03 300lm (4 LEDs)	22K 2200K	CRI 80 CRI 80+ <sup>(13)</sup>	2BLS Type II Backlight Shield		BRZ Bronze Sandtex®		
		240 240 volts	HFSL Half- Frosted Site Lens <sup>(4)</sup> <sup>(8)</sup>	N05 500lm (4 LEDs)	27K 2700K	CRI 90 CRI 90+ <sup>(14)</sup>	3 Type III		SI Silver Sandtex®		
		277 277 volts		N07 700lm (4 LEDs)	30K 3000K		3BLS Type III Backlight Shield		BKTX Textured Black		
				N10 1000lm (4 LEDs)			4 Type IV		BRZTX Textured Bronze Non- Metallic		
				XS03 300lm (8 LEDs) <sup>(6)</sup> <sup>(10) (11)</sup>			4BLS Type IV Backlight Shield		GRATX Textured Medium Grey		
				XS10 1000lm (8 LEDs)			5 Type V		GRNTX Textured Green		
				XS15 1500lm (8 LEDs)			5S Type V Square		WHTX Textured White		
				XS20 2000lm (8 LEDs)					CC Custom Colour & Finish <sup>(17)</sup> <sup>(18) (19)</sup>		
				XS25 2500lm (8 LEDs)							

Notes:

1. Available with all pole mounting options.

2. Available with W1H2, W1H4 and W1HSJB adaptors only.

3. When combined with CSL lens, only AMB colour temperature is available.

4. Available with Type 2, 3 and 4 distributions only.

5. Standard IK06 rating for glass lens. IK10 rated polycarbonate lens available, please consult factory.

6. Not available with type 5 distribution.

7. Available with type 3 and 5 distributions only.

8. Available for N03, N05, N07 and N10 outputs only.

9. Lumen output will vary according to the lens and distribution specified for the fixture. Please consult the photometric information section of the specification sheet for more details.

10. Available with AMB colour temperature only.

11. Not available for FSL and HFSL lens.

12. Binning within a 3-step MacAdam ellipse

13. Binning within a 2-step MacAdam ellipse, with the exception of 2200K.

14. Binning within a 2-step MacAdam ellipse.
15. Available with CSL and HFSL lenses only.

16. Factory installed.

17. Specify RAL number followed by "TX" for textured finish (ex: RAL9007TX) or STX for Sandtex finish (ex: RAL9007STX). Textured or Sandtex finishes are recommended for the durability of all products. If a finish is not specified with the RAL number (ex: RAL9007), a glossy finish will be provided. Please consult factory for other RAL textures and glosses, or to match alternate colour charts. Final colour matching results may vary.

18. Longer lead times can be expected for custom RAL colour finishes.

19. Setup charges apply for RAL colours. Consult factory for details.

20. DIM control can be used as NO (On/Off control) if no data is required.

21. Vibration tested in accordance with ANSI 136.31 2018 for bridge and overpass applications at 5Gv.

22. Specify only if a bridge or overpass application is required.

23. Not available for W1HSJB mounting adaptor.

24. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.

25. Setup charges apply. Consult factory for details.



How to Order

Mounting Adaptor
<b>RPA6N</b> Round Pole Adaptor for Ø152 mm Pole
<b>SPA6N</b> Square Pole Adaptor for Ø152 mm Pole
<b>RPA8N</b> Round Pole Adaptor for Ø203 mm Pole
<b>SPA8N</b> Square Pole Adaptor for Ø203 mm Pole
<b>RPA6TN</b> Round Pole Adaptor for Lumentech Ø152 mm Pole
<b>SPA6TN</b> Square Pole Adaptor for Lumentech Ø152 mm Pole
<b>RPA8TN</b> Round Pole Adaptor for Lumentech Ø203 mm Pole
<b>SPA8TN</b> Square Pole Adaptor for Lumentech Ø203 mm Pole
<b>W1H2</b> Horizontal Wall Mount Adaptor for 51 mm x 102 mm Recessed Junction Box
<b>W1H4</b> Horizontal Wall Mounting Adaptor for 102 mm x 102 mm Recessed Junction Box
<b>W1HSJB</b> Horizontal Wall Mounting Adaptor for Ø102 mm Round Exterior Surface Junction Box (24) (27)

Notes:

26. The WM-W1HSJB mounting is designed for installation on a round exterior (weatherproof) surface junction box (Ø102 mm diameter and 41 mm deep). For all other types of junction box, consult the factory.

27. Not available with VRBO option.

