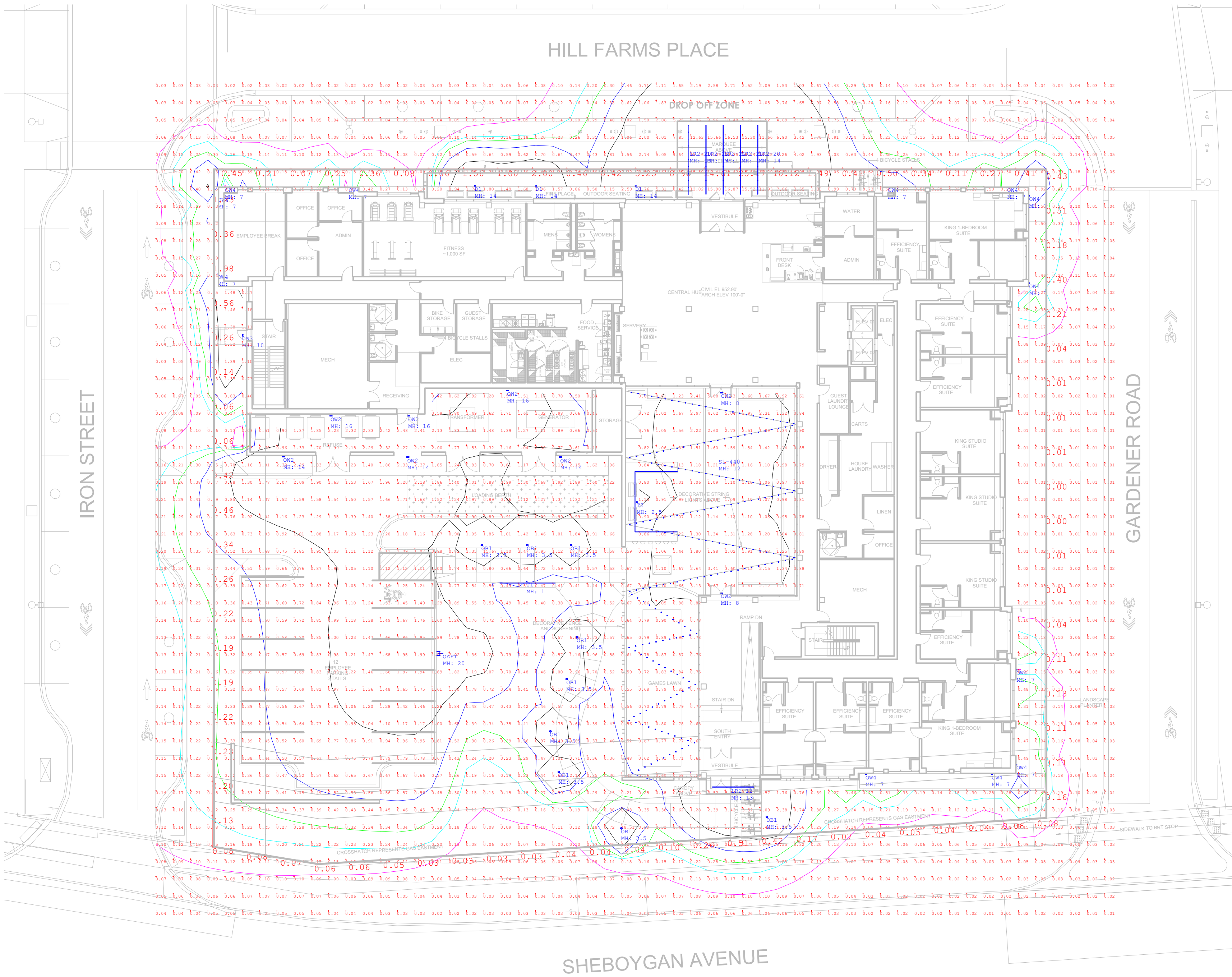


Luminaire Schedule						
Qty	Label	MFG	Description	LLF	Lum. Watts	Total Watts
3	D1	LITHONIA	LDN4SO AL01 SWW1 1 4S4AR LSS MVOLT (driver) (500LM)	0.950	6	18
1	LR2-12	LUMENWERX	V2SEALR-D-WETL-EPDO-SW-80-200-XX-12FT-UNV-(driver)-1C-(mounting)-(finish)	0.540	N.A.	24
5	LR2-20	LUMENWERX	V2SEALR-D-WETL-EPDO-SW-80-200-XX-20FT-UNV-(driver)-1C-(mounting)-(finish)	0.540	N.A.	200
1	OAFT	LITHONIA	DSX1 LED P1 xxK TFTM MVOLT SPA (finish) = 18" POLE + 2" BASE	0.950	54	54
9	OB1	LUMINIS	CL323-L112W10-(volt)-(finish)-Kx	0.950	11	99
8	OW2	LITHONIA	WPX1 LED P1 xxK MVOLT (finish)	0.950	11	88
1	OW3	LITHONIA	WDGE2 LED P0 xxK 80CRI T1S MVOLT (mounting) (finish)	0.950	7	7
12	OW4	EUREKA	3450-LED-xx-(volt)-DV-BLKE	0.950	9.9	118.8
1	S1-440	ALUZ	A5-ZOZO-STN-24-xxK-GSFL-3W-WET-440FT	0.900	N.A.	208
1	T1	LLI	LLI-DPW-H4.4W-IP68-xxK (contractor to field verify length)	0.010	4.4	4.4
1	T2	LLI	LLI-DPW-H4.4W-IP68-xxK (contractor to field verify length)	0.010	4.4	4.4

Calculation Summary						
Label	Units	Avg	Max	Min	Max/Min	Avg/Min
Presumed Property Line @ 4'	Fc	1.09	25.17	0.00	N.A.	N.A.
Employee Parking Area	Fc	1.03	2.0	0.4	5.00	2.58
Loading Berth	Fc	1.48	2.4	0.7	3.43	2.11
Mechanical Platform	Fc	1.36	2.5	0.3	8.33	4.53
Outdoor Seating & Main Entrance	Fc	5.53	20.4	0.2	102.00	27.65
Patio & Games Lawn	Fc	1.42	6.6	0.5	13.20	2.84



SHEET: E100

DATE : 8-21-2023

SCALE : 1" = 20'

HOMWOOD SUITES

MADISON, WI

SITE LIGHTING LAYOUT

#

DATE

COMMENTS

REVISIONS

FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.

CONSTRUCTION — Durable square metal reflectors retained by torsion springs.

Galvanized steel mounting/plaster frame; galvanized steel junction box with bottom-hinged access covers and spring latches.

Vertically adjustable mounting brackets with commercial bar hangers provide 3-3/4" total adjustment.

Two combination 1/2"-3/4" and four 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out). No. 12 AWG conductors, rated for 90°C.

Accommodates 12"-24" joist spacing.

Passive cooling thermal management for 25°C standard; high ambient (40°C) option available. Light engine and drivers are accessible from above or below ceiling.

Max ceiling thickness 1-1/2".

OPTICS — LEDs are binned to a 3-step MacAdam Ellipse; 80 CRI minimum. 90 CRI optional.

LED light source concealed with diffusing optical lens.

General illumination lighting with 1.0 S/MH and 55° cutoff to source and source image.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.

UGR — UGR is zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg, per CIE 117-1996 Discomfort Glare in Interior Lighting.

ELECTRICAL — Multi-volt (120-277V, 50/60Hz) 0-10V dimming drivers mounted to junction box, 10% or 1% minimum dimming level available.

0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.

LUMEN MAINTENANCE — 70% lumen maintenance at 60,000 hours. (L70/60,000 hours)

LISTINGS — Certified to US and Canadian safety standards. Wet location standard (covered ceiling). IP55 rated. ENERGY STAR® certified product. Drivers are RoHS compliant.

BUY AMERICAN ACT — Product with the BAA option 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 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

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.

Specifications subject to change without notice.

PERFORMANCE DATA

LDN4SQ 3500K AR LSS CRI80			
Nominal	Lumens	Wattage	Lm/W
500	432.5	5.7	75.3
750	620	8.6	72.1
1000	863	10.6	81.6
1500	1249	17.5	71.4
2000	1657	22.1	74.9
2500	2218	26.1	85.0
3000	2483	32.1	77.4
4000	3479	43.0	80.9

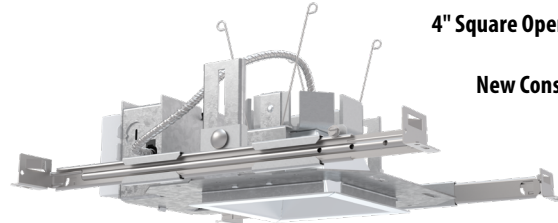
Notes

- Tested in accordance with IESNA LM-79-08.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- CRI: 80 typical.

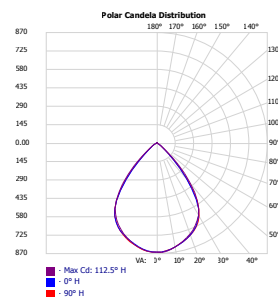


Catalog Number	
Notes	
Type	TYPE D1

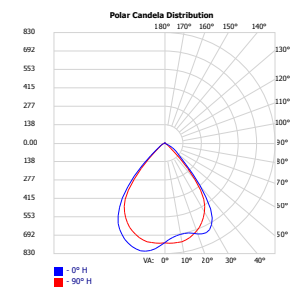
LDN4SQ STATIC WHITE



**4" Square Open and Wallwash LED
Non-IC
New Construction Downlight**



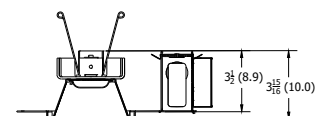
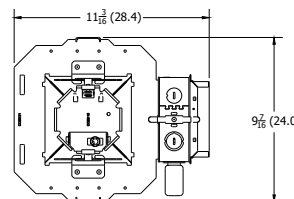
Open



Wallwash

DIMENSIONS

LDN4 500 - 1500 LUMENS



Aperture: 4-5/16" (11)
Ceiling Opening: 5-1/8" (13)
Overlap Trim: 5-7/16" (13.8)

See page 4 for other fixture dimensions

TYPE D1.1

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: LDN4SQ 35/15 LS4 AR LSS MVOLT EZ1

LDN4SQ							
Series	Color temperature	Lumens ‡	Trim Style	Trim Color	Trim Finish	Flange Color ‡	Voltage
LDN4SQ 4" square	27/ 2700K 30/ 3000K 35/ 3500K 40/ 4000K 50/ 5000K	05 500 lumens 07 750 lumens 10 1000 lumens 15 1500 lumens 20 2000 lumens 25 2500 lumens 30 3000 lumens 40 4000 lumens	LS4 Downlight LSW4 Wallwash	AR Clear WR ‡ White BR ‡ Black TCPC ‡ Custom painted trim TRALTB ‡ RAL painted trim	LSS Semi-specular LD Matte diffuse LS Specular	TRW White painted flange TRBL Black painted flange FCPC Custom painted flange only FRALTB RAL painted flange only	MVOLT Multi-volt 120 120V 277 277V 347 ‡ 347V

Driver	Emergency ‡	Control Input ‡	Options
GZ10 0-10V driver dims to 10%	(blank) No Emergency Needed	(blank) No Control Input Needed	HAO ‡ High ambient option (40°C)
GZ1 0-10V driver dims to 1%	EL Battery pack (10W constant power), non-T20 compliant, integral test switch	JOT Wireless room control with "Just One Touch" pairing	CP ‡ Chicago Plenum
D10 Minimum dimming 10% driver for use with JOT	ELR Battery pack (10W constant power), non-T20 compliant, remote test switch	NPP16D nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1).	RRL___ RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to RRL for complete nomenclature. Available only in RRLA, RRLB, RRLAE, and RRLC12S.
D1 Minimum dimming 1% driver for use with JOT	ELSD Self-diagnostic battery pack (10W constant power), non-T20 compliant, integral test switch	NPP16DER nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.	BAA Buy America(n) Act Compliant
EZ1 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1%	ELRSD Self-diagnostic battery pack (10W constant power), non-T20 compliant, remote test switch	NPS80EZ nLight® dimming pack controls 0-10V eldoLED drivers (EZ1).	90CRI High CRI (90+)
EDAB eldoLED DALI SOLDRIIVE dim to dark	E10WCP Battery pack (10W constant power), T20 compliant, integral test switch	NPS80EZER nLight® dimming pack controls 0-10V eldoLED drivers (EZ1). ER controls fixtures on emergency circuit.	SF ‡ Single fuse
	E10WCPR Battery pack (10W constant power), T20 compliant, remote test switch	N80 nLight™ Lumen Compensation	
	E10WRSTAR Emergency battery pack, 10W with remote test switch and Iota STAR technology	NLTAIR2 nLight® Air enabled	
		NLTAIRER2 nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit, not available with battery pack options	
		NLTAIREM2 nLight® AIR Dimming Pack Wireless Controls. UL924 Emergency Operation, via power interrupt detection. Available with battery pack options.	

‡ Option Value Ordering Restrictions

Option value	Restriction
Lumens	Overall height varies based on lumen package; refer to dimensional chart.
TRW, TRBL	Available with clear (AR) reflector only. Not available with finishes.
347	Not available with emergency options.
SF	Must specify voltage 120V or 277V.
EL, ELR, ELSD, ELRSD, E10WCP, E10WCPR	12.5" of plenum depth or top access required for battery pack maintenance.
NPP16D, NPP16DER, NPS80EZ, NPS80EZER	Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed. See UL 924 Sequence of Operation table.
NLTAIR2, NLTAIRER2, NLTAIREM2	NLTAIR2, NLTAIRER2 and NLTAIREM2 not recommended for metal ceiling installations. See UL 924 Sequence of Operation table. Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80 options.
N80	Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZ ER. Only available with EZ1 drivers.
HAO	Fixture height is 5-11/16" for all lumen packages with HAO.
CP	Must specify voltage for 3000lm. Not available with emergency battery pack option.
JOT	Must specify D10 or D1 driver. Not available with nLight options. Not available with CP. Not recommended for metal ceiling installation. Not for use with emergency backup power systems other than battery packs.
Reloc® Options	Refer to RRL specification sheet on acuitybrands.com for further details.
RRLAE	Commercial fixtures should disconnect the TSPL before unplugging the RRL so it does not go into discharge mode.
RRLC12S	RRLC12S option is to be used with the OnePass OCU, OCS, OD, OFC and OD for 0-24V integrated single-circuit or 0-10V low voltage controls applications. Not available with integral dimming sensors.
TRALTB, FRALTB	RALTB for pricing only. Replace with applicable RAL number and finish when ready to order. See the RAL BROCHURE for available color options.
TCPC, FCPC	CPC options for pricing only. Custom color chip needs to be sent in to your Customer Resolution specialist before order can be processed. Click HERE for more details
E10WRSTAR	Not available with wet location, EC1, EC6, QDS, CP, 347V, NPS80EZ ER, NLTAIRER2, NLTAIREM2, ALO3 & ALO4 w/DALI, OR 2000-4500 lumens w/JOT. Top access installation or 17.5" plenum clearance required for roomside installation. Not available with integral test switch

Emergency Battery Pack Options - Field Installable

Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
ILB CP07 2H A	7W	120	840	Storm Shelter / 2 Hour Runtime
ILB CP10 A	10W	90	1200	
ILBLP CP10 HE SD A+	10W	90	1200	Title 20, Self Diagnostic
ILBLP CP15 HE SD A+	15W	90	1800	Title 20, Self Diagnostic
ILB CP20 HE A	20W	90	2400	Title 20
ILB CP20 HE SD A	20W	90	2400	Title 20, Self Diagnostic
ILBHI CP10 HE SD A+	10W	90	1200	347-480V AC Input, Title 20, Self Diagnostic
ILBHI CP15 HE SD A+	15W	90	1800	347-480V AC Input, Title 20, Self Diagnostic

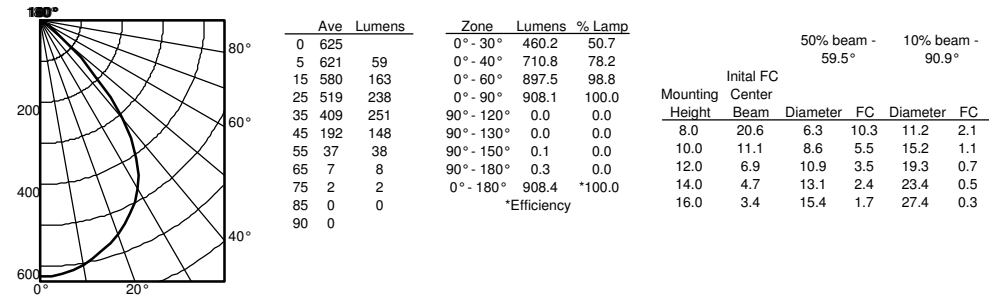
All the above are UL Listed products that are certified for field install external/remote to the fixture.
*Minimum delivered lumen output to assist in product selection for increased fixture mounting height.
The CP10 delivered emergency illumination outperforms legacy 1400 lumen fluorescent emergency ballast.
Please contact us at techsupport@iotaengineering.com for any Emergency Battery related questions.

LDN4SQ

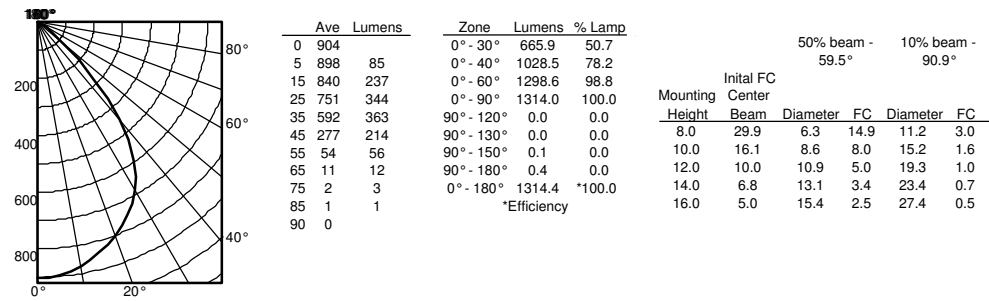
PHOTOMETRY

Distribution Curve	Distribution Data	Output Data	Illuminance Data at 30" Above Floor for a Single Luminaire
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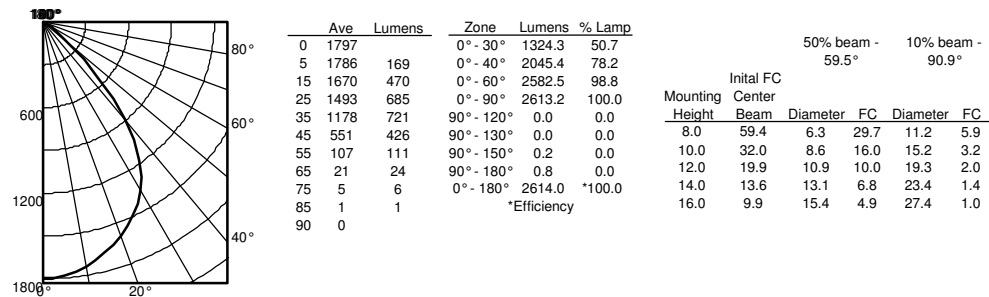
LDN4SQ 35/10 LS4AR, input watts: 10.58, delivered lumens: 908.4, LM/W = 85.86, spacing criterion at 0= 1.15, test no. ISF 35250P109



LDN4SQ 35/15 LS4AR, input watts: 17.5, delivered lumens: 1314.4, LM/W = 75.10, spacing criterion at 0= 1.15, test no. ISF 35250P114.



LDN4SQ 35/30 LS4AR, input watts: 32.1, delivered lumens: 2614.1, LM/W = 83.78, spacing criterion at 0= 1.15, test no. ISF 31036P129.



HOW TO ESTIMATE DELIVERED LUMENS IN EMERGENCY MODE

Use the formula below to estimate the 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.

The LPW rating is also available at Designlight Consortium.

Notes

- Tested in accordance with IESNA LM-79-08.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- CRI: 80 typical.

LUMEN OUTPUT MULTIPLIERS - FINISH

	Clear (AR)	White (WR)	Black (BR)
Specular (LS)	1.0	N/A	N/A
Semi-specular (LSS)	0.950	N/A	N/A
Matte diffuse (LD)	0.85	N/A	N/A
Painted	N/A	0.87	0.73

LUMEN OUTPUT MULTIPLIERS - CRI

80	1.0
90	0.874

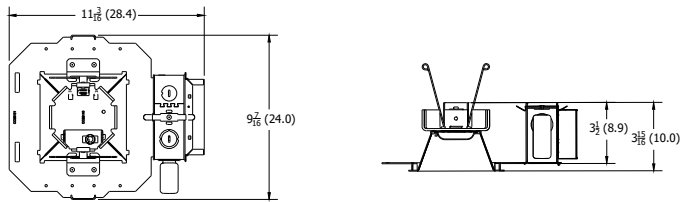
LUMEN OUTPUT MULTIPLIERS - CCT

	2700K	3000K	3500K	4000K	5000K
80CRI	0.950	0.966	1.000	1.025	1.101

LDN4SQ

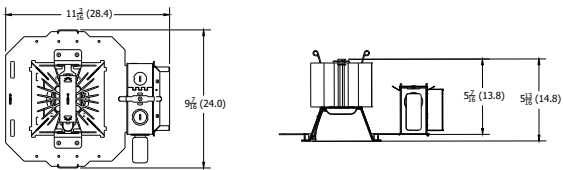
* All dimensions are inches (centimeters) unless otherwise noted.

LDN4 500 - 1500 LUMENS



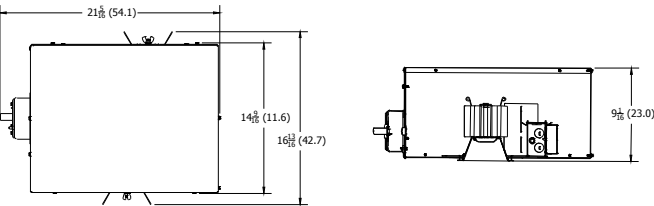
Aperture: 4-5/16" (11)
Ceiling Opening: 5-1/8" (13)
Overlap Trim: 5-7/16" (13.8)

LDN4 2000 - 3000 LUMENS



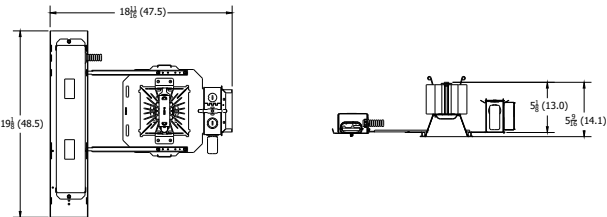
Aperture: 4-5/16" (11)
Ceiling Opening: 5-1/8" (13)
Overlap Trim: 5-7/16" (13.8)

LDN4 CP



Aperture: 4-5/16" (11)
Ceiling Opening: 5-1/8" (13)
Overlap Trim: 5-7/16" (13.8)

LDN4 EL



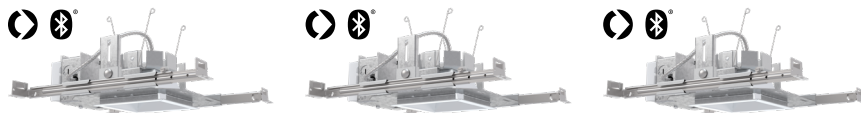
Aperture: 4-5/16" (11)
Ceiling Opening: 5-1/8" (13)
Overlap Trim: 5-7/16" (13.8)

ADDITIONAL DATA



The Sensor Switch JOT enabled solution offers a wireless, app-free approach to single room lighting control. JOT enabled products use Bluetooth® Low Energy (BLE) technology to enable wireless dimming and switching.

Diagram



LDN4SQ Series

Sensor Switch
WSXA JOT

- Power:** Install JOT enabled fixtures and controls as instructed.
- Pair:** Insert the pairing tool into the pinhole on the wall switch; press and hold any button for 6 seconds.
- Play:** Once paired, each fixture will individually dim down to 10% brightness. All products will be fully functional.

COMPATIBLE 0-10V WALL-MOUNT DIMMERS

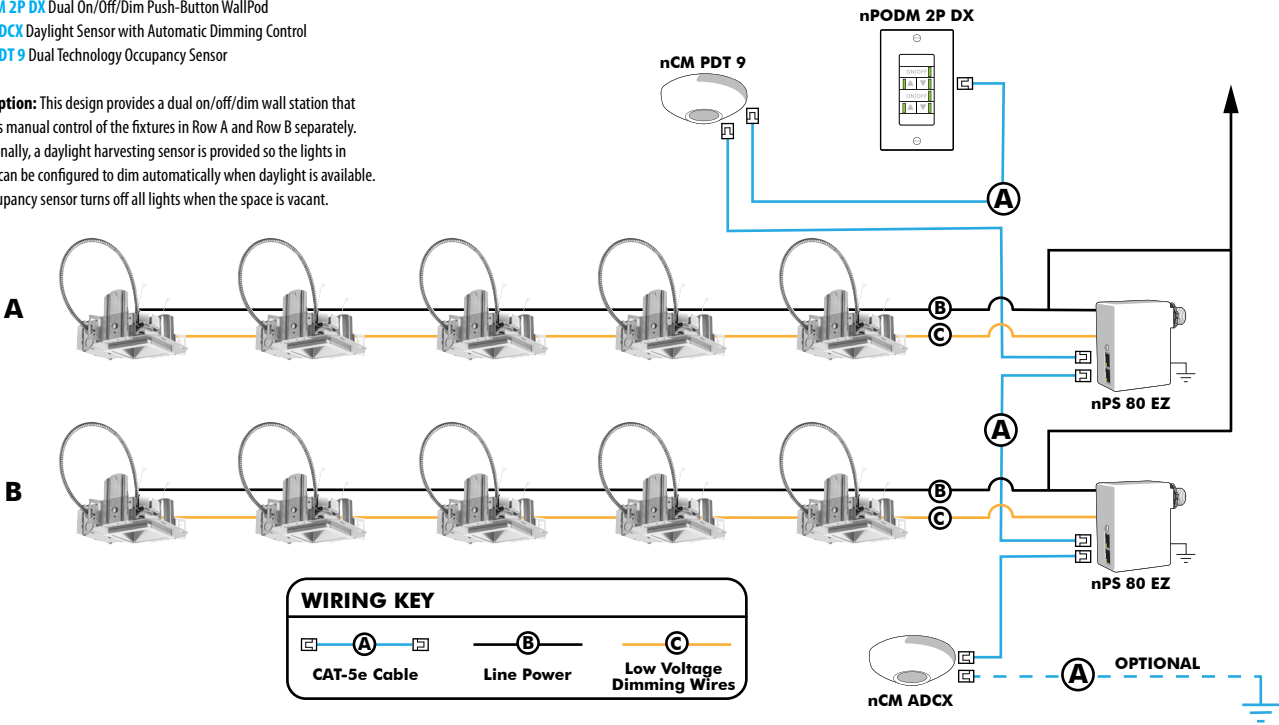
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE
Lutron®	Diva® DDTV	
	Diva® DVSCCTV	
	Nova T® NTFTV	
	Nova® NDTV	
Leviton®	AWSMT-7DW	CN100
	AWSMG-7DW	PE300
	AMRMG-7DW	
	Leviton Centura Fluorescent Control System	
	IllumaTech® IP7 Series	
Synergy®	ISD BC	RDMFC
	SLD LPCS	
	Digital Equinox (DEQ BC)	
Douglas Lighting Controls	WPC-5721	
Entertainment Technology	Tap Glide TG600FAM120 (120V)	
	Tap Glide Heatsink TGH1500FAM120 (120V)	
	Oasis OA2000FAMU	
Honeywell	EL7315A1019	EL7305A1010 (optional)
	EL7315A1009	
HUNT Dimming	Preset slide: PS-010-IV and PS-010-WH	
	Preset slide: PS-010-3W-IV and PS-010-3W-WH	
	Preset slide, controls FD-010: PS-IFC-010-IV and PS-IFC-010-WH-120/277V	
	Preset slide, controls FD-010: PS-IFC-010-3W-IV and PS-IFC-010-3W-WH-120/277V	
	Remote mounted unit: FD-010	
Lehigh Electronic Products	Solitaire	PBX
PDM Electrical Products	WPC-5721	
Starfield Controls	TR61 with DALI interface port	RT03 DALInet Router
WattStopper®	LS-4 used with LCD-101 and LCD-103	

LDN45Q

EXAMPLE
Group Fixture Control*
*Appiication diagram applies for fixtures with eldoLED drivers only.

- nPS 80 EZ Dimming/Control Pack (qty: 2 required)
- nPODM 2P DX Dual On/Off/Dim Push-Button WallPod
- nCM ADCX Daylight Sensor with Automatic Dimming Control
- nCM PDT 9 Dual Technology Occupancy Sensor

Description: This design provides a dual on/off/dim wall station that enables manual control of the fixtures in Row A and Row B separately. Additionally, a daylight harvesting sensor is provided so the lights in Row B can be configured to dim automatically when daylight is available. An occupancy sensor turns off all lights when the space is vacant.



Choose Wall Controls
nLight offers multiple styles of wall controls - each with varying features and user experience.



Push-Button Wallpod
Traditional tactile buttons and LED user feedback



Graphic Wallpod
Full color touch screen provides a sophisticated look and feel

nLight® Wired Controls Accessories:			
Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlight for complete listing of nLight controls.			
WallPod Stations	Model number	Occupancy sensors	Model Number
On/Off	nPODM (Color)	Small motion 360°, ceiling (PIR/dual Tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPOD DX (Color)	Large motion 360°, ceiling (PIR/dual tech)	nCM 10 / nCM PDT 10
Graphic Touchscreen	nPOD GFX (Color)	Wide View (PIR/dual tech)	nWV 16 / nWV PDT 16
Photocell controls	Model Number	Wall Switch w/ Raise/Lower (PIR/dual tech)	nWSX LV DX / nWSX PDT LV DX
Dimming	nCM ADCX	Cat-5 cables (plenum rated)	Model Number
		10', CAT5 10FT	CAT5 10FT J1
		15', CAT5 15FT	CAT5 15FT J1

nLight® AIR Control Accessories:	
Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair .	
Wall switches	Model number
On/Off single pole	rPODB [color]
On/Off two pole	rPODB 2P [color]
On/Off & raise/lower single pole	rPODB DX [color]
On/Off & raise/lower two pole	rPODB 2P DX [color]
On/Off & raise/lower single pole	rPODBZ DX WH ¹

Notes

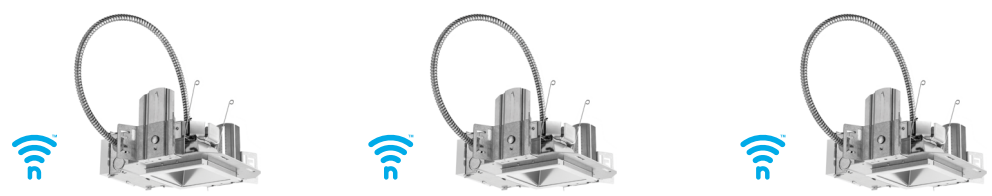
1 Can only be ordered with the RES7Z zone control sensor version.

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



Simple as 1,2,3

1. Install the nLight® AIR fixtures with embedded smart sensor
2. Install the wireless battery-powered wall switch
3. With CLAIRITY app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome



VIA 2 SEAL

RECESSED
DIRECT

STATIC WHITE, BIOS ST/DY

VIA WEATHER SERIES



Project: _____

Type: _____

LUMENWERX

TYPE LR2-12

DESCRIPTION

Sealed with silicone gaskets, Via Seal fixtures are intended for wet locations and can be pendant, surface, wall, or recessed mounted. They can act alone as discrete luminaires, or be arranged in continuous lines or patterns. Via 2 Seal is suitable for wet locations where temperatures are moderate and in which spaces are regularly wiped down and frequently in contact with debris and/or moisture. These luminaires can be used to create continuous, unbroken lines of light. See separate spec sheets for patterns and other available mountings.

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



IMPORTANT:
Fixture must be installed with lens facing down.

IC RATED IK05



Up to 99 lm/W performance

Order Guide

LUMINAIRE ID	DISTRIBUTION	ENVIRONMENT ¹	OPTIC	LIGHT SOURCE ³	CRI
V2SEALR	D	WET			
V2SEALR - Via 2" Seal Recessed	D - Direct	WET ² - Wet Suitable (IP44) ¹ See page 2 for more information. ² Suitable for outdoor environments only when installed under canopy. Not suitable for extreme weather environments. Consult factory for low temperature applications.	EPDO - Environmentally Protected Direct Optic ASDO - Asymmetric Soft Direct Optic	SW - Static white BIOSST - Static biologically-optimized lighting BIOSDY - Dynamic biologically-optimized lighting ³ Chromawerx Sola and Duo also available. Consult other spec sheet.	80 - 80 CRI 90 ⁴ - 90 CRI ⁴ Not available with BIOS.

LUMEN PACKAGE	COLOR TEMP.	LUMINAIRE LENGTH	VOLTAGE	DRIVER ⁹
350 - Low output 350 lm/ft 500 - Medium output 500 lm/ft 750 ⁵ - High output 750 lm/ft ⁵ Not available with BIOS.	27 ⁶ - 2700K 30 - 3000K 35 - 3500K 40 - 4000K 50 ⁶ - 5000K ⁶ Not available with BIOS.	#FT#IN ⁷ - Specify nominal length (#) in 1' and/or 1" increments Standard nominal lengths: Single units: 2' - 12' Continuous runs: lengths over 12' ⁷ With BIOSDY, specify in 2' increments only.	120 - 120V 277 - 277V UNV - 120V-277V 347 ⁸ - 347V ⁸ Available with D1 only.	D1 ¹⁰ - 1% 0-10V DA ¹⁰ - DALI LTEA2W ¹¹ - Lutron 1% - 2 wire FP 120V LDE1 ¹⁰ - Lutron Hi-Lume 1% Eco ELD1 - eldoLED 1% ECOdrive 0-10V ELD0 - eldoLED 0.1% SOLOdrive 0-10V RLTD10 ¹² - Low-temperature 10% 0-10V ⁹ PoE (Power-over-Ethernet) compatible. Consult factory for details. ¹⁰ On-site commissioning is required. ¹¹ Available with 120V only. ¹² Remote driver box required. Suitable for temperatures down to -40°C/F.

ELECTRICAL	ELECTRICAL SECTIONS (optional) ^{17, 18}	POWER FEED	MOUNTING	FINISH	OPTIONS
1C - 1 circuit #MC ¹⁵ - Multi circuit EC - Emergency-powered fixture NL - Night light fixture DL - Daylight fixture GTD ^{14, 15, 16} - Generator transfer device fixture ¹³ Specify total number of circuits (#), including any circuits required for electrical section options. Provide drawing or layout specifications. Minimum 4' section per circuit. ¹⁴ Minimum 4' fixture. ¹⁵ Not available with 347V. ¹⁶ Not available for environments where the ambient temperature falls below 0°C (32°F).	#EC## ¹⁹ - Emergency-powered section #NL## ¹⁹ - Night light section #DL## ¹⁹ - Daylight section #GTD## ^{19, 20, 21, 22} - Generator transfer device section #EMB ^{21, 22, 23} - Emergency battery NA - None ¹⁷ Specify with multi circuit (#MC) electrical option only. ¹⁸ Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. ¹⁹ Specify quantity (#), and section length in inches (##). ²⁰ Minimum 4' section. ²¹ Not available with 347V. ²² Not available for environments where the ambient temperature falls below 0°C (32°F). ²³ Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section.	TF - Top feed EF - End feed	TC9 - Tegular 9/16" TC15 - Tegular 15/16" TB9 - T-bar 9/16" TB15 - T-bar 15/16" ST - Screw slot T-bar DTR - Drywall trim DTL - Drywall trimless DMF - Drywall mud flange	W - Matte white AL - Aluminum WA - White antimicrobial Silverwerx CF# - Custom finish, specify RAL#	NATA - Natatorium finish CRF - Corrosion-resistant finish NA - None

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TYPE LR2-12.1

VIA 2 SEAL

RECESSED

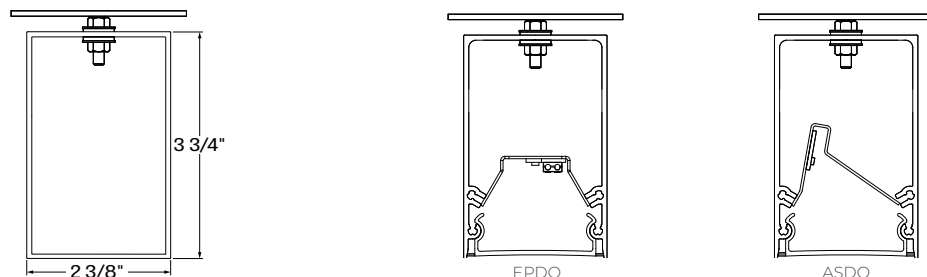
DIRECT

STATIC WHITE, BIOS ST/DY

VIA WEATHER SERIES

LUMENWERX

Section Views



Environment Options

The Via Weather Series offers four levels of protective sealing: Level 1, Level 2, Level 3, and Level 4.

Via 2 Seal is available with one environment option: Wet Suitable (WET) at Level 1.

For other levels of protective sealing, please see Via 3 Seal or Via 4 Seal spec sheets for Level 1 and Level 2, Via Wet spec sheets for Level 3, and Via Splash spec sheets for Level 4.

FEATURES



Wet Suitable
(IP44)
(WET)

Indoor application that requires wipe down

Healthcare application

Outdoor application with restrictions: under canopy only

Continuous line of light over 12 ft

Water and dust resistant

Water and dust protected

Not suitable for extreme weather applications

Damp listed

Wet listed

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TYPE LR2-12.2

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VIA 2 SEAL

RECESSED

DIRECT

STATIC WHITE, BIOS ST/DY

VIA WEATHER SERIES

LUMENWERX

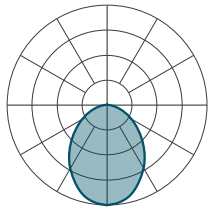
Photometrics

MULTIPLIER TABLE

Please follow the multiplier table to ensure correct lumen value. CCT and CRI, will change the lumen output.

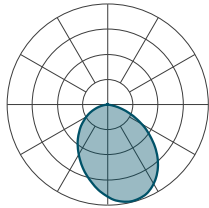
Multiplier - CCT/CRI

CCT (K)	WATTS		LPW	
	CRI 80	CRI 90	CRI 80	CRI 90
2700	1.06	1.27	0.94	0.79
3000	1.02	1.23	0.98	0.81
3500	1.00	1.19	1.00	0.84
4000	1.00	1.18	1.00	0.85
5000	0.95	1.12	1.05	0.89



EPDO - Delivered Lumens at 40K at 80 CRI

LUMENS PER FOOT	TOTAL LUMENS PER 4FT	INPUT WATTS	LPW
350	1400	14.1	99
500	2000	20.7	97
750	3000	32.6	92



ASDO - Delivered Lumens at 40K at 80 CRI

LUMENS PER FOOT	TOTAL LUMENS PER 4FT	INPUT WATTS	LPW
350	1400	17.0	82
500	2000	25.2	79
750	3000	40.1	75

VIA 2 SEAL

RECESSED

DIRECT

STATIC WHITE, BIOS ST/DY

VIA WEATHER SERIES

LUMENWERX

Technical Specifications

DIRECT OPTICS

Environmentally Protected Direct Optic (EPDO)

The Environmentally Protected Direct Optic creates a seal that blocks debris and moisture, and withstands UV distortion and moderate impact. This extruded snap-in lens has a gasket to ensure proper sealing. The lens is 1/16" thick and made of frosted polycarbonate. Internally, white, side kicking reflectors guide the light through the lens. The EPDO suits moderate climate environments.

Asymmetric Soft Direct Optic (ASDO)

The Asymmetric Soft Direct Optic creates a seal that blocks debris and moisture, and withstands UV distortion and moderate impact. This extruded snap-in lens has a gasket to ensure proper sealing. The lens is 1/16" thick and made of frosted polycarbonate. Internally, white, side kicking reflectors specifically angled to guide the light through the lens to create a nice asymmetric distribution. The ASDO suits moderate climate environments.

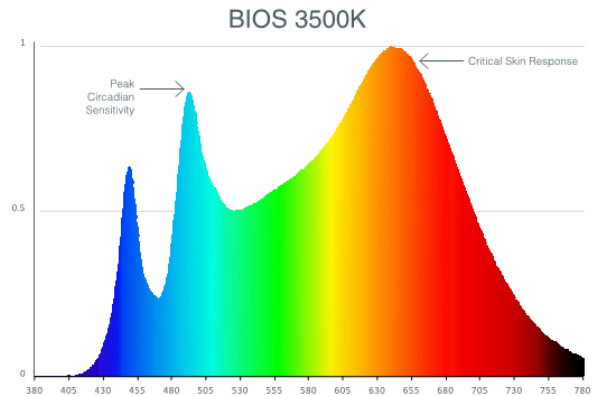
LIGHT SOURCE

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.



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.



WELL for Light - The WELL building standard focuses on light quality in several features. There are three categories that are fully attributed to the construction and features of a luminaire. In WELL V1, it's Feature 54 Circadian Lighting, Feature 55 Glare Control, and Feature 58 Color Quality. In WELL V2, it's Feature L03 Circadian Lighting, Feature L04 Glare Control, and Feature L07 Electric Light Quality.

This fixture meets Features:

- Feature 54 or L03 when BIOS LED is selected
- Feature 58 or L07 when 90 CRI is selected

All LED drivers used at Lumenwerx are deemed to have a low risk level of flicker, of 5 % or less below 90Hz operational as defined by IEEE standard 1789-2015 LED.



WELL for Mind - This luminaire meets WELL for mind as it is a human centric luminaire offering quality light, excellent color, and smooth optics. If any of these features are incorporated in a luminaire, it can improve the ability to focus, concentrate, and persist longer on a given task. This fixture harmoniously operates in a space to assist the mind.

For more information, please contact well@lumenwerx.com

TYPE LR2-12.4

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VIA2SEAL-RECESSED-SPEC-REV3 September 2, 2022



VIA 2 SEAL

RECESSED

DIRECT

STATIC WHITE, BIOS ST/DY

VIA WEATHER SERIES

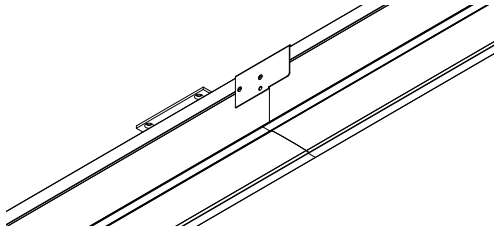
LUMINAIRE LENGTH

Via 2 Seal 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 joiner kits 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.

JOINING SYSTEM

All individual sections are joined together onsite using the ¼"-20 screws and nuts provided. The junction between two adjacent sections creates a continuous line of light without shadows.

Wet Suitable - WET



Continuous line of light

LUMINAIRE MAINTENANCE

LED arrays and drivers are accessible through the optical chamber and easily replaced.

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. An optional low-temperature 10% 0-10V driver, suitable for temperatures down to -40°C/F is also available.

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), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

LUMENWERX

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 light (#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 light 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. Suited for ambient temperatures of 0°C (32°F) to 55°C (131°F).

Generator Transfer Device (GTD)

A UL924 listed shunt relay that can bypass both line voltage (120-277V) and 0-10V dimming signal. Suited for ambient temperatures of 0°C (32°F) to 60°C (140°F).

TYPE LR2-12.5

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VIA 2 SEAL

RECESSED

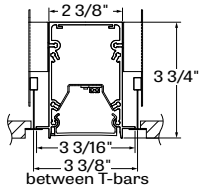
DIRECT

STATIC WHITE, BIOS ST/DY

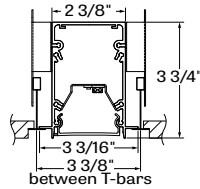
VIA WEATHER SERIES

MOUNTING OPTIONS

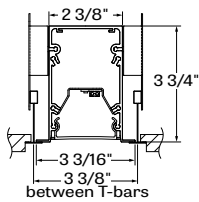
Recessed mount into exposed or concealed T-bar or tegular ceiling.



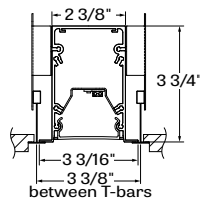
TG9 - Tegular 9/16"



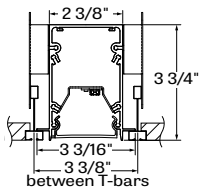
TG15 - Tegular 15/16"



TB9 - T-bar 9/16"

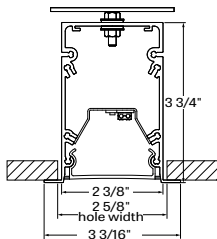


TB15 - T-bar 15/16"

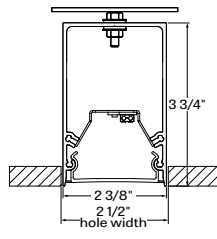


ST - Screw slot T-bar

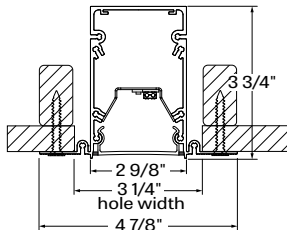
Recessed mount in drywall ceilings with trim, trimless, or mud flange options.



DTR - Drywall trim



DTL - Drywall trimless



DMF - Drywall mud flange

FINISH

Interior - 95%, reflective matte powder coated white paint

Exterior - Powder-coat paint in matte white or aluminum.

Custom finishes are also available. Optional antimicrobial finish.

CONSTRUCTION

Housing - Extruded aluminum (0.095" nominal) up to 90% recycled content

Interior brackets - Die-formed cold rolled sheet steel 18 gauge thick

Reflectors - Cold rolled steel 0.024" thick precisely die-formed, 95% reflective matte white painted

Recessed flanges - Extruded aluminum (0.060" nominal) up to 90% recycled content

Mud flange - Extruded aluminum (0.060" nominal) up to 90% recycled content

End cap - Die-cast aluminum (0.100" nominal)

End cap gasket - 1/16" closed-cell silicone foam

Mounting bracket - 1/8" thick aluminum, stainless steel PEM stud, and steel and neoprene sealing washer

WEIGHT

Via 2 Seal 4ft - 9.0 lbs - 4.1 kg

Via 2 Seal 8ft - 18.3 lbs - 8.3 kg

Via 2 Seal 12ft - 28 lbs - 12.7 kg

CERTIFICATIONS

ETL - WET environment option is rated for dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

IC rated - Suitable for direct contact with insulation.

IK05 - Impact resistance rated to IK05.

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 2 SEAL

RECESSED
DIRECT
STATIC WHITE, BIOS ST/DY
VIA WEATHER SERIES

LUMENWERX



Project: _____

Type: **TYPE LR2-20**



DESCRIPTION

Sealed with silicone gaskets, Via Seal fixtures are intended for wet locations and can be pendant, surface, wall, or recessed mounted. They can act alone as discrete luminaires, or be arranged in continuous lines or patterns. Via 2 Seal is suitable for wet locations where temperatures are moderate and in which spaces are regularly wiped down and frequently in contact with debris and/or moisture. These luminaires can be used to create continuous, unbroken lines of light. See separate spec sheets for patterns and other available mountings.

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



IMPORTANT:
Fixture must be installed with lens facing down.

IC RATED **IK05**



Up to 99 lm/W performance

Order Guide

LUMINAIRE ID	DISTRIBUTION	ENVIRONMENT ¹	OPTIC	LIGHT SOURCE ³	CRI
V2SEALR	D	WET			
V2SEALR - Via 2" Seal Recessed	D - Direct	WET ² - Wet Suitable (IP44) ¹ See page 2 for more information. ² Suitable for outdoor environments only when installed under canopy. Not suitable for extreme weather environments. Consult factory for low temperature applications.	EPDO - Environmentally Protected Direct Optic ASDO - Asymmetric Soft Direct Optic	SW - Static white BIOSST - Static biologically-optimized lighting BIOSDY - Dynamic biologically-optimized lighting ³ Chromawerx Sola and Duo also available. Consult other spec sheet.	80 - 80 CRI 90 ⁴ - 90 CRI ⁴ Not available with BIOS.

LUMEN PACKAGE	COLOR TEMP.	LUMINAIRE LENGTH	VOLTAGE	DRIVER ⁹
350 - Low output 350 lm/ft 500 - Medium output 500 lm/ft 750 ⁵ - High output 750 lm/ft ⁵ Not available with BIOS.	27 ⁶ - 2700K 30 - 3000K 35 - 3500K 40 - 4000K 50 ⁶ - 5000K ⁶ Not available with BIOS.	#FT#IN ⁷ - Specify nominal length (#) in 1' and/or 1" increments Standard nominal lengths: Single units: 2' - 12' Continuous runs: lengths over 12' ⁷ With BIOSDY, specify in 2' increments only.	120 - 120V 277 - 277V UNV - 120V-277V 347 ⁸ - 347V ⁸ Available with D1 only.	D1 ¹⁰ - 0-10V DA ¹⁰ - DALI LTEA2W ¹¹ - Lutron 1% - 2 wire FP 120V LDE1 ¹⁰ - Lutron Hi-Lume 1% Eco ELD1 - eldoLED 1% ECOdrive 0-10V ELD0 - eldoLED 0.1% SOLOdrive 0-10V RLTD10 ¹² - Low-temperature 10% 0-10V ⁹ PoE (Power-over-Ethernet) compatible. Consult factory for details. ¹⁰ On-site commissioning is required. ¹¹ Available with 120V only. ¹² Remote driver box required. Suitable for temperatures down to -40°C/F.

ELECTRICAL	ELECTRICAL SECTIONS (optional) ^{17, 18}	POWER FEED	MOUNTING	FINISH	OPTIONS
1C - 1 circuit #MC ¹⁵ - Multi circuit EC - Emergency-powered fixture NL - Night light fixture DL - Daylight fixture GTD ^{14, 15, 16} - Generator transfer device fixture ¹³ Specify total number of circuits (#), including any circuits required for electrical section options. Provide drawing or layout specifications. Minimum 4' section per circuit. ¹⁴ Minimum 4' fixture. ¹⁵ Not available with 347V. ¹⁶ Not available for environments where the ambient temperature falls below 0°C (32°F).	#EC## ¹⁹ - Emergency-powered section #NL## ¹⁹ - Night light section #DL## ¹⁹ - Daylight section #GTD## ^{19, 20, 21, 22} - Generator transfer device section #EMB ^{21, 22, 23} - Emergency battery NA - None ¹⁷ Specify with multi circuit (#MC) electrical option only. ¹⁸ Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. ¹⁹ Specify quantity (#), and section length in inches (##). ²⁰ Minimum 4' section. ²¹ Not available with 347V. ²² Not available for environments where the ambient temperature falls below 0°C (32°F). ²³ Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section.	TF - Top feed EF - End feed	TC9 - Tegular 9/16" TC15 - Tegular 15/16" TB9 - T-bar 9/16" TB15 - T-bar 15/16" ST - Screw slot T-bar DTR - Drywall trim DTL - Drywall trimless DMF - Drywall mud flange	W - Matte white AL - Aluminum WA - White antimicrobial Silverwerx CF# - Custom finish, specify RAL#	NATA - Natatorium finish CRF - Corrosion-resistant finish NA - None

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TYPE LR2-20.1

VIA 2 SEAL

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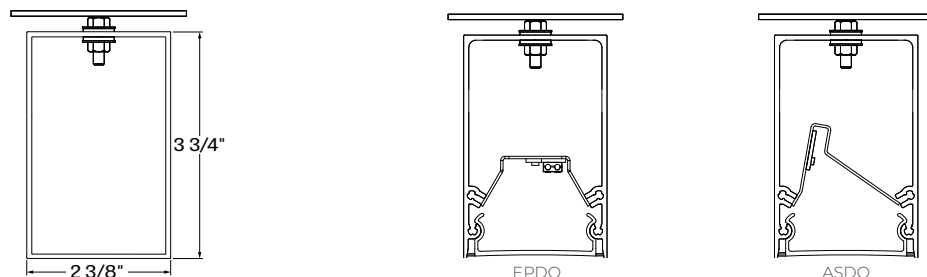
DIRECT

STATIC WHITE, BIOS ST/DY

VIA WEATHER SERIES

LUMENWERX

Section Views



Environment Options

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FEATURES



**Wet Suitable
(IP44)
(WET)**

Indoor application that requires wipe down

Healthcare application

Outdoor application with restrictions: under canopy only

Continuous line of light over 12 ft

Water and dust resistant

Water and dust protected

Not suitable for extreme weather applications

Damp listed

Wet listed

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TYPE LR2-20.2

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VIA 2 SEAL

RECESSED

DIRECT

STATIC WHITE, BIOS ST/DY

VIA WEATHER SERIES

LUMENWERX

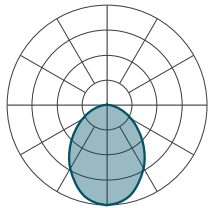
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MULTIPLIER TABLE

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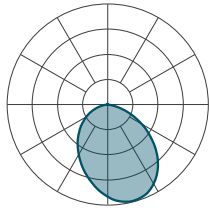
Multiplier - CCT/CRI

CCT (K)	WATTS		LPW	
	CRI 80	CRI 90	CRI 80	CRI 90
2700	1.06	1.27	0.94	0.79
3000	1.02	1.23	0.98	0.81
3500	1.00	1.19	1.00	0.84
4000	1.00	1.18	1.00	0.85
5000	0.95	1.12	1.05	0.89



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VIA 2 SEAL

RECESSED

DIRECT

STATIC WHITE, BIOS ST/DY

VIA WEATHER SERIES

LUMENWERX

Technical Specifications

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The Asymmetric Soft Direct Optic creates a seal that blocks debris and moisture, and withstands UV distortion and moderate impact. This extruded snap-in lens has a gasket to ensure proper sealing. The lens is 1/16" thick and made of frosted polycarbonate. Internally, white, side kicking reflectors specifically angled to guide the light through the lens to create a nice asymmetric distribution. The ASDO suits moderate climate environments.

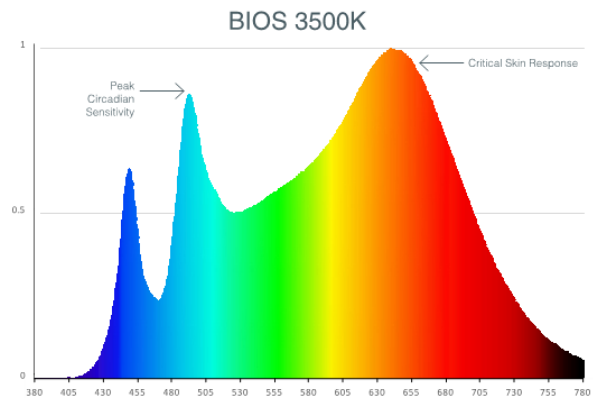
LIGHT SOURCE

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.



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.



WELL for Light - The WELL building standard focuses on light quality in several features. There are three categories that are fully attributed to the construction and features of a luminaire. In WELL V1, it's Feature 54 Circadian Lighting, Feature 55 Glare Control, and Feature 58 Color Quality. In WELL V2, it's Feature L03 Circadian Lighting, Feature L04 Glare Control, and Feature L07 Electric Light Quality.

This fixture meets Features:

- Feature 54 or L03 when BIOS LED is selected
- Feature 58 or L07 when 90 CRI is selected

All LED drivers used at Lumenwerx are deemed to have a low risk level of flicker, of 5 % or less below 90Hz operational as defined by IEEE standard 1789-2015 LED.



WELL for Mind - This luminaire meets WELL for mind as it is a human centric luminaire offering quality light, excellent color, and smooth optics. If any of these features are incorporated in a luminaire, it can improve the ability to focus, concentrate, and persist longer on a given task. This fixture harmoniously operates in a space to assist the mind.

For more information, please contact well@lumenwerx.com

TYPE LR2-20.4

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
T (514) 225-4304 F (514) 931-4862
www.lumenwerx.com



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VIA2SEAL-RECESSED-SPEC-REV3 September 2, 2022



VIA 2 SEAL

RECESSED

DIRECT

STATIC WHITE, BIOS ST/DY

VIA WEATHER SERIES

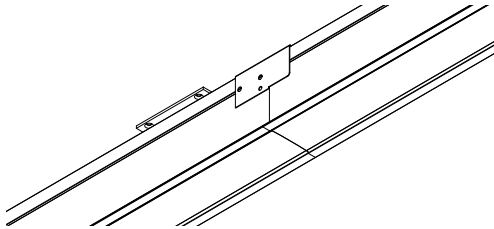
LUMINAIRE LENGTH

Via 2 Seal 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 joiner kits 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.

JOINING SYSTEM

All individual sections are joined together onsite using the ¼"-20 screws and nuts provided. The junction between two adjacent sections creates a continuous line of light without shadows.

Wet Suitable - WET



Continuous line of light

LUMINAIRE MAINTENANCE

LED arrays and drivers are accessible through the optical chamber and easily replaced.

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. An optional low-temperature 10% 0-10V driver, suitable for temperatures down to -40°C/F is also available.

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), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

LUMENWERX

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 light (#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 light 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. Suited for ambient temperatures of 0°C (32°F) to 55°C (131°F).

Generator Transfer Device (GTD)

A UL924 listed shunt relay that can bypass both line voltage (120-277V) and 0-10V dimming signal. Suited for ambient temperatures of 0°C (32°F) to 60°C (140°F).

TYPE LR2-20.5

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
T (514) 225-4304 F (514) 931-4862
www.lumenwerx.com



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VIA2SEAL-RECESSED-SPEC-REV3 September 2, 2022



VIA 2 SEAL

RECESSED

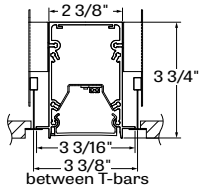
DIRECT

STATIC WHITE, BIOS ST/DY

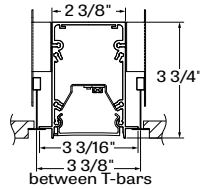
VIA WEATHER SERIES

MOUNTING OPTIONS

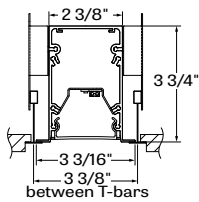
Recessed mount into exposed or concealed T-bar or tegular ceiling.



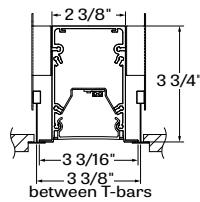
TG9 - Tegular 9/16"



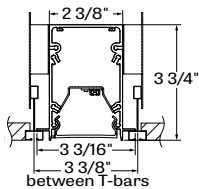
TG15 - Tegular 15/16"



TB9 - T-bar 9/16"

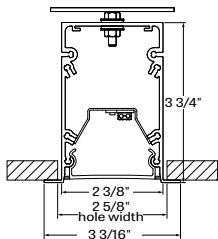


TB15 - T-bar 15/16"

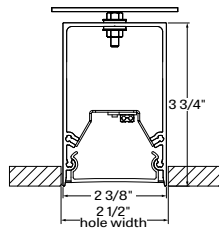


ST - Screw slot T-bar

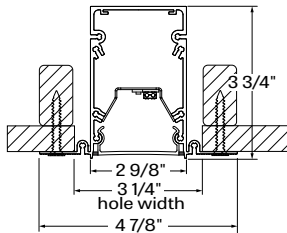
Recessed mount in drywall ceilings with trim, trimless, or mud flange options.



DTR - Drywall trim



DTL - Drywall trimless



DMF - Drywall mud flange

FINISH

Interior - 95%, reflective matte powder coated white paint

Exterior - Powder-coat paint in matte white or aluminum.

Custom finishes are also available. Optional antimicrobial finish.

CONSTRUCTION

Housing - Extruded aluminum (0.095" nominal) up to 90% recycled content

Interior brackets - Die-formed cold rolled sheet steel 18 gauge thick

Reflectors - Cold rolled steel 0.024" thick precisely die-formed, 95% reflective matte white painted

Recessed flanges - Extruded aluminum (0.060" nominal) up to 90% recycled content

Mud flange - Extruded aluminum (0.060" nominal) up to 90% recycled content

End cap - Die-cast aluminum (0.100" nominal)

End cap gasket - 1/16" closed-cell silicone foam

Mounting bracket - 1/8" thick aluminum, stainless steel PEM stud, and steel and neoprene sealing washer

WEIGHT

Via 2 Seal 4ft - 9.0 lbs - 4.1 kg

Via 2 Seal 8ft - 18.3 lbs - 8.3 kg

Via 2 Seal 12ft - 28 lbs - 12.7 kg

CERTIFICATIONS

ETL - WET environment option is rated for dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

IC rated - Suitable for direct contact with insulation.

IK05 - Impact resistance rated to IK05.

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.



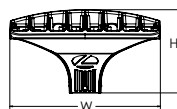
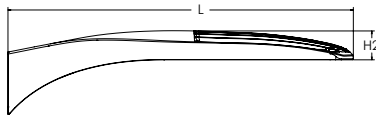
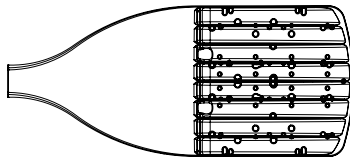
D-Series Size 1 LED Area Luminaire



d#series

Specifications

EPA:	0.69 ft ² (0.06 m ²)
Length:	32.71" (83.1 cm)
Width:	14.26" (36.2 cm)
Height H1:	7.88" (20.0 cm)
Height H2:	2.73" (6.9 cm)
Weight:	34 lbs (15.4 kg)



Catalog
Number

Notes

Type

TYPE OAF

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED						
Series	LEDs	Color temperature ²	Color Rendering Index ²	Distribution	Voltage	Mounting
DSX1 LED	Forward optics	(this section 70CRI only)		AFR Automotive front row	T5M Type V medium	Shipped included
	P1 P6	30K 3000K	70CRI	T1S Type I short	T5LG Type V low glare	SPA Square pole mounting (#8 drilling)
	P2 P7	40K 4000K	70CRI	T2M Type II medium	T5W Type V wide	RPA Round pole mounting (#8 drilling)
	P3 P8	50K 5000K	70CRI	T3M Type III medium	BLC3 Type III backlight control ³	SPA5 Square pole mounting #5 drilling ⁹
	P4 P9	(this section 80CRI only, extended lead times apply)		T3LG Type III low glare ³	BLC4 Type IV backlight control ³	RPA5 Round pole mounting #5 drilling ⁹
	P5			T4M Type IV medium	LCCO Left corner cutoff ³	SPA8N Square narrow pole mounting #8 drilling
	Rotated optics			T4LG Type IV low glare ³	RCCO Right corner cutoff ³	WBA Wall bracket ¹⁰
	P10 ¹ P12 ¹	27K 2700K	80CRI	TFTM Forward throw medium		MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)
	P11 ¹ P13 ¹	30K 3000K	80CRI			
		35K 3500K	80CRI			
		40K 4000K	80CRI			
		50K 5000K	80CRI			

Control options	Other options	Finish (required)
Shipped installed	Shipped installed	Shipped installed
NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc ^{11, 12, 20, 21}	SPD20KV 20KV surge protection	DDBXD Dark Bronze
PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc ^{13, 20, 21}	HS Houseside shield (black finish standard) ²²	DBLXD Black
PER NEMA twist-lock receptacle only (controls ordered separately) ¹⁴	L90 Left rotated optics ¹	DNAXD Natural Aluminum
PER5 Five-pin receptacle only (controls ordered separately) ^{14, 21}	R90 Right rotated optics ¹	DWHXD White
	CCE Coastal Construction ²³	DDBTXD Textured dark bronze
	HA 50°C ambient operation ²⁴	DBLBXD Textured black
	Shipped separately	DNATXD Textured natural aluminum
	EGSR External Glare Shield (reversible, field install required, matches housing finish)	DWHGXD Textured white
	BSDB Bird Spikes (field install required)	
PER7 Seven-pin receptacle only (controls ordered separately) ^{14, 21}		
FAO Field adjustable output ^{15, 21}		
BL30 Bi-level switched dimming, 30% ^{16, 21}		
BL50 Bi-level switched dimming, 50% ^{16, 21}		
DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ¹⁷		
DS Dual switching ^{18, 19, 21}		



COMMERCIAL OUTDOOR

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TYPE OAF.1

Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁵
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²⁵
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²⁵
DSHORT SBK	Shorting cap ²⁵
DSX1HS P#	House-side shield (enter package number 1-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSXRPAS (FINISH)	Round pole adapter #5 drilling (specify finish)
DSX1EGSR (FINISH)	External glare shield (specify finish)
DSX1BSDB (FINISH)	Bird spike deterrent bracket (specify finish)

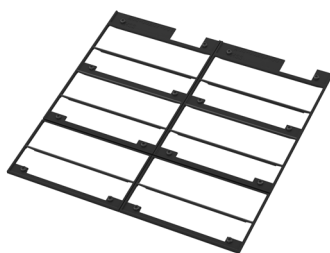
NOTES

- 1 Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
- 2 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
- 3 T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
- 4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 5 HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- 6 HVOLT not available with package P1 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
- 7 XVOULT operates with any voltage between 277V and 480V (50/60 Hz).
- 8 XVOULT not available in packages P1 or P10.
- 9 SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
- 10 WBA cannot be combined with Type 5 distributions plus photocell (PER).
- 11 NLTAIR2 and PIRHN must be ordered together. For more information on nLight AIR2 visit this [link](#).
- 12 NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. NLTAIR2 PIRHN not available with P1 and P10 using HVOLT. NLTAIR2 PIRHN not available with P1 and P10 using XVOULT.
- 13 PIR not available with NLTAIR2 PIRHN, PER, PER5, PER7, FAO BL30, BL50, DMG and DS. PIR not available with P1 and P10 using HVOLT. PIR not available with P1 and P10 using XVOULT.
- 14 PER/PER5/PER7 not available with NLTAIR2 PIRHN, PIR, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- 15 FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, DMG and DS.
- 16 BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO, DMG and DS.
- 17 DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DS.
- 18 DS not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DMG.
- 19 DS requires (2) separately switched circuits. DS provides 50/50 fixture operation via (2) different sets of leads using (2) drivers. DS only available with packages P8, P9, P10, P11, P12 and P13.
- 20 Reference Motion Sensor Default Settings table on page 4 to see functionality.
- 21 Reference Controls Options table on page 4.
- 22 HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- 23 CCE option not available with option BS and EGSR. Contact Technical Support for availability.
- 24 Option HA not available with performance packages P4, P5, P7, P8, P9 and P13.
- 25 Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.

Shield Accessories



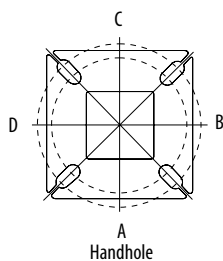
External Glare Shield (EGSR)



House Side Shield (HS)

Drilling

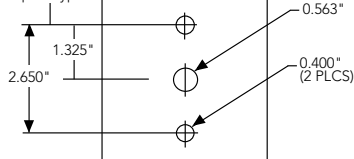
HANDHOLE ORIENTATION



Template #8

Top of Pole

1.75" for aluminum poles
2.75" for other pole types



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX1 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 with SPA	0.69	1.38	1.23	1.54	---	1.58
DSX1 with SPA5, SPA8N	0.70	1.40	1.30	1.66	---	1.68
DSX1 with RPA, RPA5	0.70	1.40	1.30	1.66	1.60	1.68
DSX1 with MA	0.83	1.66	1.50	2.09	2.09	2.09

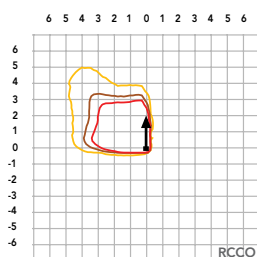
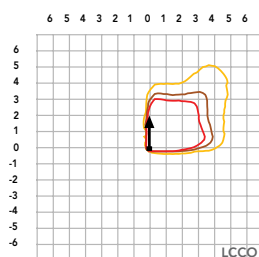
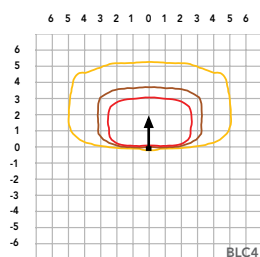
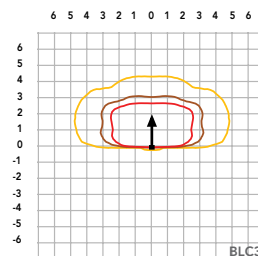
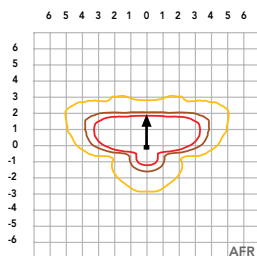
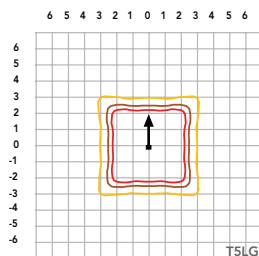
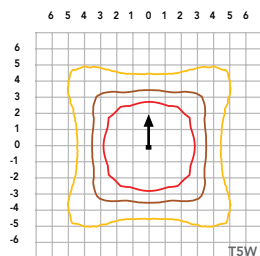
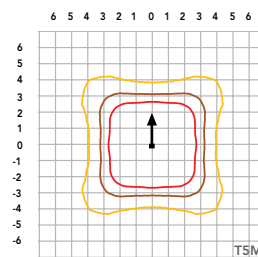
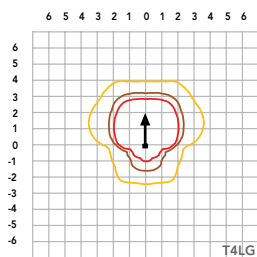
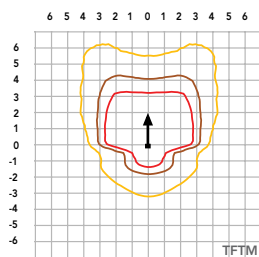
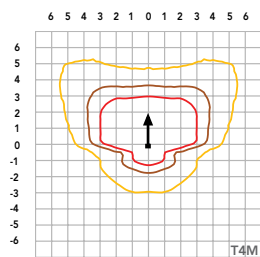
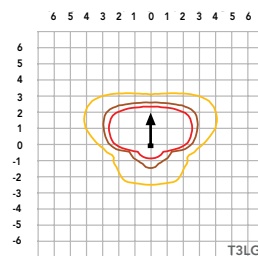
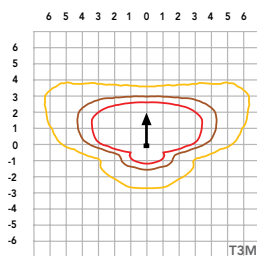
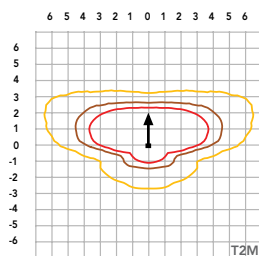
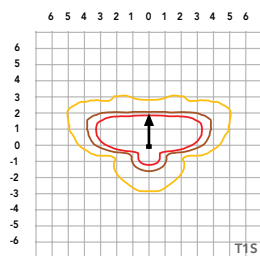
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [homepage](#).

Isofootcandle plots for the DSX1 LED P9 40K 70CRI. Distances are in units of mounting height (25').

LEGEND

- 0.1 fc
- 0.5 fc
- 1.0 fc



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.95
50,000	0.90
100,000	0.81

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use maximum published values by package listed on specification sheet (input watts and lumens by optic type).

Electrical Load

	Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A)					
					120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P2	30	700	68	0.56	0.33	0.28	0.24	0.20	0.14
	P3	30	1050	104	0.85	0.49	0.43	0.37	0.29	0.21
	P4	30	1250	125	1.03	0.60	0.52	0.45	0.36	0.26
	P5	30	1400	142	1.15	0.66	0.58	0.50	0.40	0.29
	P6	40	1250	167	1.38	0.79	0.69	0.60	0.48	0.34
	P7	40	1400	188	1.54	0.89	0.77	0.67	0.53	0.38
	P8	60	1100	216	1.80	1.04	0.90	0.78	0.62	0.45
	P9	60	1400	279	2.31	1.33	1.15	1.00	0.80	0.58
Rotated Optics (Requires L90 or R90)	P10	60	530	101	0.84	0.49	0.42	0.37	0.29	0.21
	P11	60	700	135	1.12	0.65	0.56	0.49	0.39	0.28
	P12	60	1050	206	1.72	0.99	0.86	0.74	0.59	0.43
	P13	60	1400	279	2.30	1.33	1.15	1.00	0.79	0.57

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS (not available on DSX0)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V



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Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	51W	30	530	T1S	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162
				T2M	7,203	1	0	3	142	7,507	2	0	3	147	7,653	2	0	3	150
				T3M	7,287	1	0	3	143	7,594	1	0	3	149	7,742	1	0	3	152
				T3LG	6,509	1	0	1	128	6,783	1	0	1	133	6,916	1	0	1	136
				T4M	7,395	1	0	3	145	7,707	1	0	3	151	7,857	1	0	3	154
				T4LG	6,726	1	0	1	132	7,010	1	0	1	138	7,146	1	0	1	140
				TFTM	7,446	1	0	3	146	7,760	1	0	3	152	7,912	1	0	3	155
				T5M	7,609	3	0	2	149	7,930	3	0	2	156	8,084	3	0	2	159
				T5W	7,732	3	0	2	152	8,058	4	0	2	158	8,215	4	0	2	161
				T5LG	7,631	3	0	1	150	7,953	3	0	1	156	8,108	3	0	1	159
				BLC3	5,300	0	0	2	104	5,524	0	0	2	109	5,631	0	0	2	111
				BLC4	5,474	0	0	3	108	5,705	0	0	3	112	5,816	0	0	3	114
				RCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112
				LCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112
				AFR	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162
P2	68W	30	700	T1S	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	157
				T2M	9,260	2	0	3	137	9,651	2	0	3	142	9,839	2	0	3	145
				T3M	9,368	2	0	3	138	9,763	2	0	3	144	9,953	2	0	3	147
				T3LG	8,368	1	0	2	123	8,721	1	0	2	129	8,891	1	0	2	131
				T4M	9,507	2	0	3	140	9,909	2	0	3	146	10,102	2	0	3	149
				T4LG	8,647	1	0	2	128	9,012	1	0	2	133	9,187	1	0	2	136
				TFTM	9,573	2	0	3	141	9,977	2	0	3	147	10,172	2	0	3	150
				T5M	9,782	4	0	2	144	10,195	4	0	2	150	10,393	4	0	2	153
				T5W	9,940	4	0	2	147	10,360	4	0	2	153	10,562	4	0	2	156
				T5LG	9,810	3	0	1	145	10,224	3	0	1	151	10,423	3	0	1	154
				BLC3	6,814	0	0	2	101	7,101	0	0	2	105	7,240	0	0	2	107
				BLC4	7,038	0	0	3	104	7,334	0	0	3	108	7,477	0	0	3	110
				RCCO	6,875	1	0	2	101	7,165	1	0	2	106	7,305	1	0	2	108
				LCCO	6,875	1	0	2	101	7,165	1	0	2	106	7,305	1	0	2	108
				AFR	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	157
P3	102W	30	1050	T1S	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147
				T2M	13,055	2	0	3	128	13,605	2	0	3	133	13,871	2	0	3	136
				T3M	13,206	2	0	4	129	13,763	2	0	4	135	14,031	2	0	4	137
				T3LG	11,797	2	0	2	115	12,294	2	0	2	120	12,534	2	0	2	123
				T4M	13,403	2	0	4	131	13,968	2	0	4	137	14,241	2	0	4	139
				T4LG	12,190	2	0	2	119	12,704	2	0	2	124	12,952	2	0	2	127
				TFTM	13,496	2	0	4	132	14,065	2	0	4	138	14,339	2	0	4	140
				T5M	13,790	4	0	2	135	14,371	4	0	2	141	14,652	4	0	2	143
				T5W	14,013	4	0	3	137	14,605	4	0	3	143	14,889	4	0	3	146
				T5LG	13,830	3	0	2	135	14,413	3	0	2	141	14,694	3	0	2	144
				BLC3	9,606	0	0	2	94	10,011	0	0	2	98	10,206	0	0	2	100
				BLC4	9,921	0	0	3	97	10,340	0	0	3	101	10,541	0	0	3	103
				RCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101
				LCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101
				AFR	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P4	124W	30	1250	T1S	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141
				T2M	15,207	3	0	4	123	15,849	3	0	4	128	16,158	3	0	4	130
				T3M	15,383	2	0	4	124	16,032	2	0	4	129	16,345	2	0	4	132
				T3LG	13,742	2	0	2	111	14,321	2	0	2	116	14,600	2	0	2	118
				T4M	15,613	2	0	4	126	16,272	2	0	4	131	16,589	2	0	4	134
				T4LG	14,200	2	0	2	115	14,799	2	0	2	119	15,087	2	0	2	122
				TFTM	15,721	2	0	4	127	16,384	2	0	4	132	16,703	2	0	4	135
				T5M	16,063	4	0	2	130	16,741	4	0	2	135	17,067	4	0	2	138
				T5W	16,324	5	0	3	132	17,013	5	0	3	137	17,344	5	0	3	140
				T5LG	16,110	3	0	2	130	16,790	4	0	2	135	17,117	4	0	2	138
				BLC3	11,190	0	0	3	90	11,662	0	0	3	94	11,889	0	0	3	96
				BLC4	11,557	0	0	3	93	12,044	0	0	3	97	12,279	0	0	3	99
				RCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97
				LCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97
				AFR	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141
P5	138W	30	1400	T1S	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2	0	3	139
				T2M	16,723	3	0	4	121	17,428	3	0	4	126	17,768	3	0	4	129
				T3M	16,917	3	0	4	122	17,630	3	0	4	128	17,974	3	0	4	130
				T3LG	15,111	2	0	2	109	15,749	2	0	2	114	16,055	2	0	2	116
				T4M	17,169	3	0	5	124	17,893	3	0	5	130	18,242	3	0	5	132
				T4LG	15,615	2	0	2	113	16,274	2	0	2	118	16,591	2	0	2	120
				TFTM	17,288	2	0	4	125	18,017	2	0	5	130	18,368	3	0	5	133
				T5M	17,664	5	0	3	128	18,410	5	0	3	133	18,768	5	0	3	136
				T5W	17,951	5	0	3	130	18,708	5	0	3	135	19,073	5	0	3	138
				T5LG	17,716	4	0	2	128	18,463	4	0	2	134	18,823	4	0	2	136
				BLC3	12,305	0	0	3	89	12,824	0	0	3	93	13,074	0	0	3	95
				BLC4	12,709	0	0	4	92	13,245	0	0	4	96	13,503	0	0	4	98
				RCCO	12,416	1	0	3	90	12,940	1	0	3	94	13,192	1	0	3	95
				LCCO	12,416	1	0	3	90	12,940	1	0	3	94	13,192	1	0	3	95
				AFR	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2	0	3	139
P6	165W	40	1250	T1S	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135
				T2M	19,482	3	0	4	118	20,303	3	0	4	123	20,699	3	0	4	125
				T3M	19,708	3	0	5	119	20,539	3	0	5	124	20,939	3	0	5	127
				T3LG	17,604	2	0	2	107	18,347	2	0	2	111	18,704	2	0	2	113
				T4M	20,001	3	0	5	121	20,845	3	0	5	126	21,251	3	0	5	129
				T4LG	18,191	2	0	2	110	18,959	2	0	2	115	19,328	2	0	2	117
				TFTM	20,140	3	0	5	122	20,989	3	0	5	127	21,398	3	0	5	129
				T5M	20,579	5	0	3	125	21,447	5	0	3	130	21,865	5	0	3	132
				T5W	20,912	5	0	3	127	21,795	5	0	3	132	22,219	5	0	3	134
				T5LG	20,638	4	0	2	125	21,509	4	0	2	130	21,928	4	0	2	133
				BLC3	14,335	0	0	3	87	14,940	0	0	3	90	15,231	0	0	3	92
				BLC4	14,805	0	0	4	90	15,430	0	0	4	93	15,731	0	0	4	95
				RCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93
				LCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93
				AFR	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135

Performance Data

Lumen Output

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Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P7	184W	40	1400	T1S	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
				T2M	21,066	3	0	4	114	21,955	3	0	4	119	22,383	3	0	4	121
				T3M	21,311	3	0	5	116	22,210	3	0	5	120	22,642	3	0	5	123
				T3LG	19,036	2	0	2	103	19,839	2	0	3	108	20,226	2	0	3	110
				T4M	21,628	3	0	5	117	22,541	3	0	5	122	22,980	3	0	5	125
				T4LG	19,671	2	0	2	107	20,501	2	0	3	111	20,900	2	0	3	113
				TFTM	21,778	3	0	5	118	22,697	3	0	5	123	23,139	3	0	5	125
				T5M	22,252	5	0	3	121	23,191	5	0	3	126	23,643	5	0	3	128
				T5W	22,613	5	0	3	123	23,567	5	0	4	128	24,027	5	0	4	130
				T5LG	22,317	4	0	2	121	23,258	4	0	2	126	23,712	4	0	2	129
				BLC3	15,501	0	0	3	84	16,155	0	0	4	88	16,470	0	0	4	89
				BLC4	16,010	0	0	4	87	16,685	0	0	4	90	17,010	0	0	4	92
				RCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				LCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				AFR	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
P8	216W	60	1100	T1S	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
				T2M	26,587	3	0	5	123	27,709	3	0	5	128	28,249	3	0	5	131
				T3M	26,895	3	0	5	125	28,030	3	0	5	130	28,576	3	0	5	132
				T3LG	24,025	3	0	3	111	25,038	3	0	3	116	25,526	3	0	3	118
				T4M	27,296	3	0	5	127	28,448	3	0	5	132	29,002	3	0	5	134
				T4LG	24,826	3	0	3	115	25,873	3	0	3	120	26,378	3	0	3	122
				TFTM	27,485	3	0	5	127	28,645	3	0	5	133	29,203	3	0	5	135
				T5M	28,084	5	0	4	130	29,269	5	0	4	136	29,839	5	0	4	138
				T5W	28,539	5	0	4	132	29,743	5	0	4	138	30,323	5	0	4	141
				T5LG	28,165	4	0	2	131	29,354	4	0	2	136	29,926	4	0	2	139
				BLC3	19,563	0	0	4	91	20,388	0	0	4	94	20,786	0	0	4	96
				BLC4	20,205	0	0	5	94	21,057	0	0	5	98	21,468	0	0	5	99
				RCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				LCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				AFR	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
P9	277W	60	1400	T1S	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134
				T2M	32,255	3	0	5	116	33,616	3	0	5	121	34,271	3	0	5	124
				T3M	32,629	3	0	5	118	34,006	3	0	5	123	34,668	3	0	5	125
				T3LG	29,146	3	0	3	105	30,376	3	0	4	110	30,968	3	0	4	112
				T4M	33,116	3	0	5	120	34,513	3	0	5	125	35,185	3	0	5	127
				T4LG	30,119	3	0	3	109	31,389	3	0	4	113	32,001	3	0	4	116
				TFTM	33,345	3	0	5	120	34,751	3	0	5	125	35,429	3	0	5	128
				T5M	34,071	5	0	4	123	35,509	5	0	4	128	36,201	5	0	4	131
				T5W	34,624	5	0	4	125	36,084	5	0	4	130	36,788	5	0	4	133
				T5LG	34,170	5	0	3	123	35,612	5	0	3	129	36,306	5	0	3	131
				BLC3	23,734	0	0	4	86	24,735	0	0	4	89	25,217	0	0	4	91
				BLC4	24,513	0	0	5	88	25,547	0	0	5	92	26,045	0	0	5	94
				RCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				LCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				AFR	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134

Performance Data

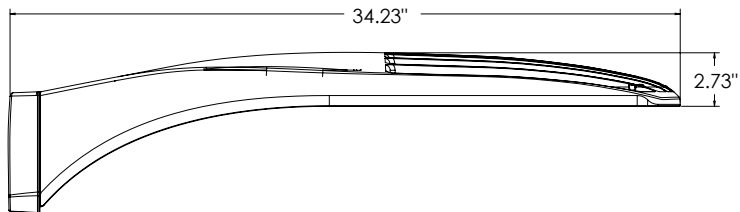
Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

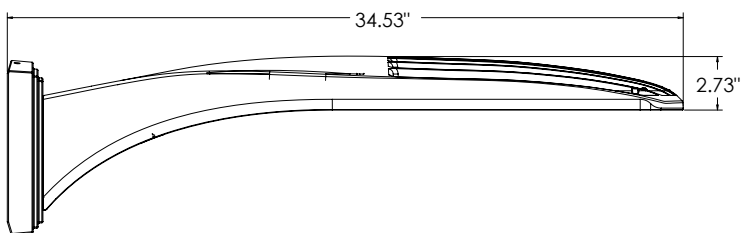
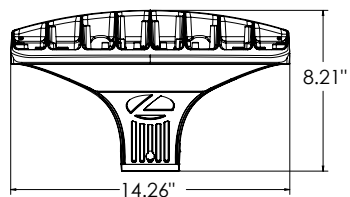
Rotated Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	101W	60	530	T1S	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159
				T2M	14,047	4	0	4	139	14,640	4	0	4	145	14,925	4	0	4	147
				T3M	14,208	4	0	4	140	14,807	4	0	4	146	15,096	4	0	4	149
				T3LG	12,693	3	0	3	125	13,229	3	0	3	131	13,487	3	0	3	133
				T4M	14,420	4	0	4	142	15,028	4	0	4	148	15,321	4	0	4	151
				T4LG	13,115	3	0	3	129	13,668	3	0	3	135	13,934	3	0	3	138
				TFTM	14,522	4	0	4	143	15,134	4	0	4	149	15,429	4	0	4	152
				T5M	14,836	4	0	2	146	15,462	4	0	2	153	15,763	4	0	2	156
				T5W	15,076	4	0	3	149	15,712	5	0	3	155	16,019	5	0	3	158
				T5LG	14,879	3	0	2	147	15,507	3	0	2	153	15,809	3	0	2	156
				BLC3	10,335	3	0	3	102	10,771	4	0	4	106	10,981	4	0	4	108
				BLC4	10,674	4	0	4	105	11,124	4	0	4	110	11,341	4	0	4	112
				RCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109
				LCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109
				AFR	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159
P11	135W	60	700	T1S	19,437	4	0	4	144	20,257	4	0	4	150	20,651	4	0	4	153
				T2M	18,005	4	0	4	133	18,765	4	0	4	139	19,131	4	0	4	142
				T3M	18,211	4	0	4	135	18,980	4	0	4	141	19,350	4	0	4	143
				T3LG	16,270	3	0	3	121	16,957	3	0	3	126	17,287	4	0	4	128
				T4M	18,483	4	0	4	137	19,263	5	0	5	143	19,638	5	0	5	146
				T4LG	16,810	3	0	3	125	17,519	3	0	3	130	17,861	3	0	3	132
				TFTM	18,614	4	0	4	138	19,399	4	0	4	144	19,777	5	0	5	147
				T5M	19,017	5	0	3	141	19,819	5	0	3	147	20,205	5	0	3	150
				T5W	19,325	5	0	3	143	20,140	5	0	3	149	20,533	5	0	3	152
				T5LG	19,072	4	0	2	141	19,876	4	0	2	147	20,264	4	0	2	150
				BLC3	13,247	4	0	4	98	13,806	4	0	4	102	14,075	4	0	4	104
				BLC4	13,682	4	0	4	101	14,259	4	0	4	106	14,537	4	0	4	108
				RCCO	13,367	1	0	3	99	13,931	1	0	3	103	14,203	1	0	3	105
				LCCO	13,367	1	0	3	99	13,931	1	0	3	103	14,203	1	0	3	105
				AFR	19,437	4	0	4	144	20,257	4	0	4	150	20,651	4	0	4	153
P12	206W	60	1050	T1S	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142
				T2M	25,436	5	0	5	124	26,509	5	0	5	129	27,025	5	0	5	131
				T3M	25,727	5	0	5	125	26,812	5	0	5	130	27,335	5	0	5	133
				T3LG	22,984	4	0	4	112	23,954	4	0	4	116	24,421	4	0	4	119
				T4M	26,110	5	0	5	127	27,212	5	0	5	132	27,742	5	0	5	135
				T4LG	23,747	4	0	4	115	24,749	4	0	4	120	25,231	4	0	4	123
				TFTM	26,295	5	0	5	128	27,404	5	0	5	133	27,938	5	0	5	136
				T5M	26,864	5	0	4	130	27,997	5	0	4	136	28,543	5	0	4	139
				T5W	27,299	5	0	4	133	28,451	5	0	4	138	29,006	5	0	4	141
				T5LG	26,942	4	0	2	131	28,078	4	0	2	136	28,626	4	0	2	139
				BLC3	18,714	4	0	4	91	19,504	4	0	4	95	19,884	4	0	4	97
				BLC4	19,327	5	0	5	94	20,143	5	0	5	98	20,535	5	0	5	100
				RCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97
				LCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97
				AFR	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142
P13	276W	60	1400	T1S	34,436	5	0	5	125	35,889	5	0	5	130	36,588	5	0	5	133
				T2M	31,900	5	0	5	116	33,246	5	0	5	121	33,894	5	0	5	123
				T3M	32,265	5	0	5	117	33,626	5	0	5	122	34,282	5	0	5	124
				T3LG	28,826	4	0	4	105	30,042	4	0	4	109	30,628	4	0	4	111
				T4M	32,746	5	0	5	119	34,128	5	0	5	124	34,793	5	0	5	126
				T4LG	29,782	4	0	4	108	31,039	4	0	4	113	31,644	5	0	4	115
				TFTM	32,978	5	0	5	120	34,369	5	0	5	125	35,039	5	0	5	127
				T5M	33,692	5	0	4	122	35,113	5	0	4	127	35,797	5	0	4	130
				T5W	34,238	5	0	4	124	35,682	5	0	4	129	36,378	5	0	4	132
				T5LG	33,789	5	0	3	122	35,215	5	0	3	128	35,901	5	0	3	130
				BLC3	23,471	5	0	5	85	24,461	5	0	5	89	24,937	5	0	5	90
				BLC4	24,240	5	0	5	88	25,262	5	0	5	92	25,755	5	0	5	93
				RCCO	23,683	1	0	4	86	24,682	1	0	4	89	25,163	1	0	4	91
				LCCO	23,683	1	0	4	86	24,682	1	0	4	89	25,163	1	0	4	91
				AFR	34,436	5	0	5	125	35,889	5	0	5	130	36,588	5	0	5	133

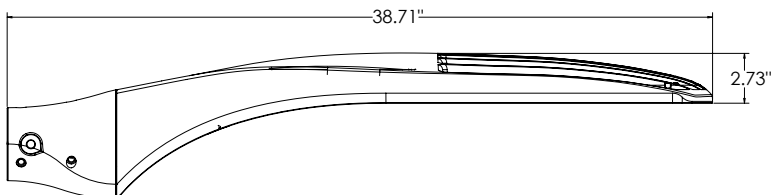
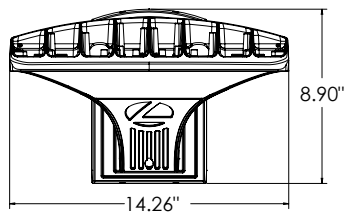
Dimensions



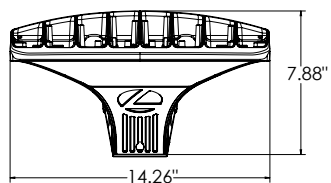
DSX1 with RPA, RPA5, SPA5, SPA8N mount
Weight: 36 lbs



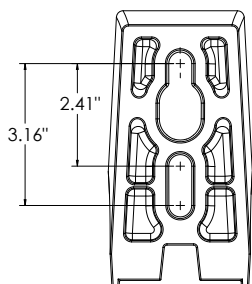
DSX1 with WBA mount
Weight: 38 lbs



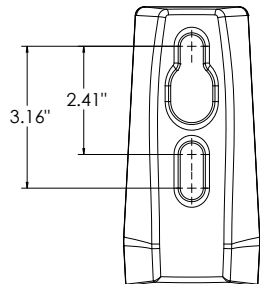
DSX1 with MA mount
Weight: 39 lbs



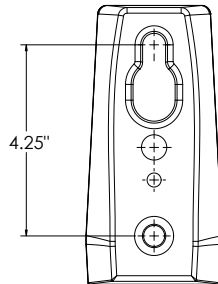
SPA (STANDARD ARM)



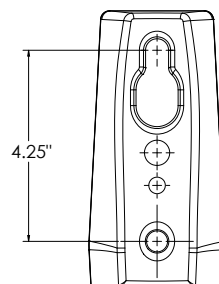
RPA



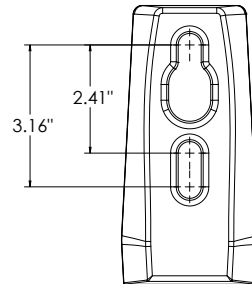
SPA5



RPA5

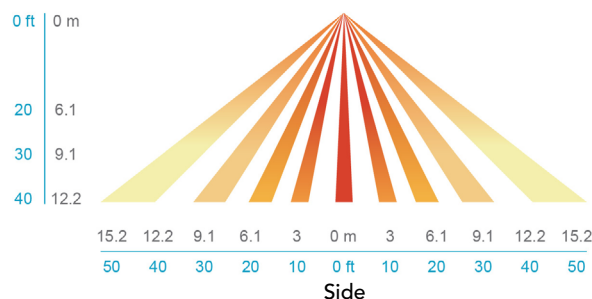
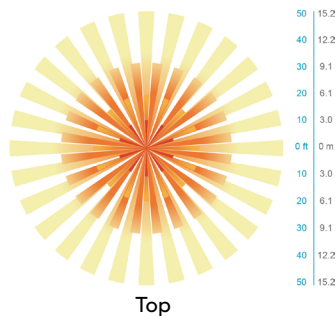
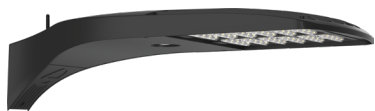


SPA8N



nLight Sensor Coverage Pattern

NLTAIR2 PIRHN



FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G for SPA and MA. 1.5G for mountings RPA, RPA5, SPA5 and SPA8N. Low EPA (0.69 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

Coastal Construction (CCE)

Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS

Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L81/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensor with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS

The DSX1 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocell functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found here.

INSTALLATION

Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

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

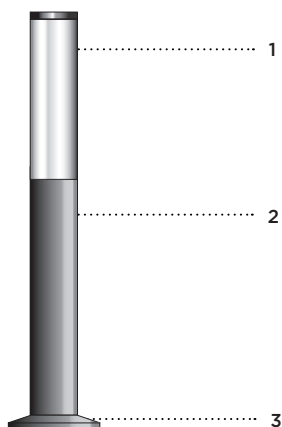
Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

TYPE OB1

TYPE: _____ QUANTITY: _____ PROJECT: _____

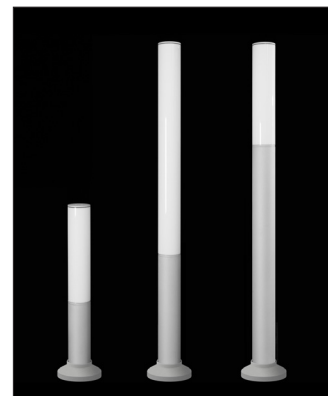
CATALOG NUMBER:

FIXTURE LED LIGHT SELECTION VOLTAGE FINISH OPTION OPTION OPTION OPTION



- 1- Ø 3" (76mm) high impact white translucent acrylic diffuser UV stabilized. Available in two acrylic lengths.
- 2- Ø 3" (76mm) extruded aluminum base.
- 3- One piece aluminum base cover.

CL313/CL323/CL313XL



MATERIALS

LumiSTIK bollard is made of corrosion resistant 356 aluminum alloy with a copper (CU) content of less than 0.1%.
LED is contained in a white UV stabilized high impact acrylic sealed cylinder.
The assembly is designed to provide a uniform column illumination.

ELECTRICAL

DRIVER Standard driver is 0-10V dimming-ready (dims to 10%) with: 120-277 multi-volt compatibility (50-60Hz), operating temperature range of -30°C/-22°F to 60°C/140°F, output over voltage protection, output over current protection and output short circuit protection with auto-recovery. Driver for RGBW operating temperature range -20°C to +50°C/-4°F to +122°F.

LED 3000K/3500K/4000K CCT with 80 CRI. Optional RGBW.

LIFE

50,000hrs $L_{85B_{50}}$ (based on IESNA TM-21 Test Method and LM-80 data).

FINISH

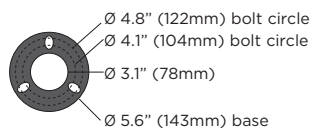
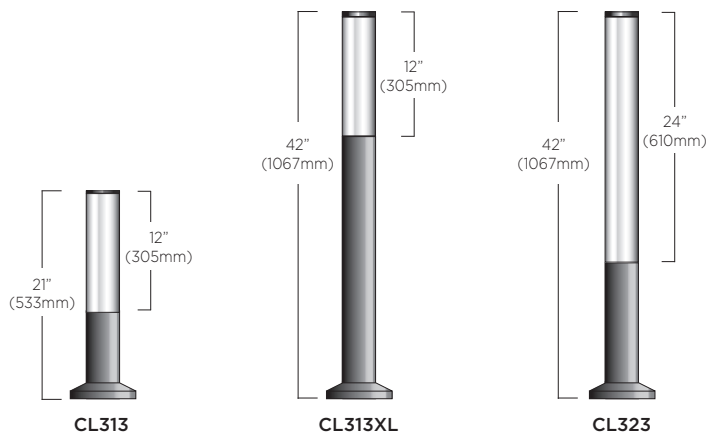
Five-stage preparation process includes preheating of cast aluminum parts for air extraction. Polyester powder coating is applied through an electrostatic process, and oven cured for long term finish.

CERTIFICATION

Certified and Approved as per CSA C22.2 No.: 250.0 standard and ANSI/UL 1598 standard, for wet location. Rated IP65.
Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standards at 25°C. Lumen depreciation in accordance with IESNA LM80 standards.

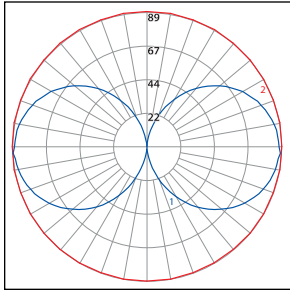
MOUNTING

Mounts with a set of 3 x 3/8"-16 x 3 3/4" lg. galvanized anchor bolts.



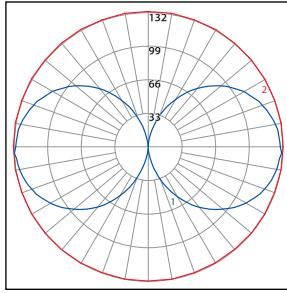
CL313/CL313XL/CL323 SERIES LumiSTIK

TYPICAL PHOTOMETRY SUMMARY



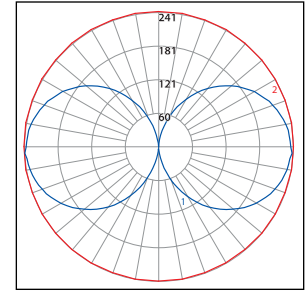
Descriptive Information

CL313-L4L8
Total Lms: 830 Lumens
Total Input Watts: 10W
Efficacy: 83 Lumens/Watt
BUG : B0-U3-G1
CCT/CRI: 4000K/80
Maximum Candela: 89 @ 0°H/87.5°V



Descriptive Information

CL313XL-L4L10
Total Lms: 1230 Lumens
Total Input Watts: 15 W
Efficacy: 82 Lumens/Watt
BUG : B1-U3-G1
CCT/CRI: 4000K/80
Maximum Candela: 132 @ 0°H/87.5°V



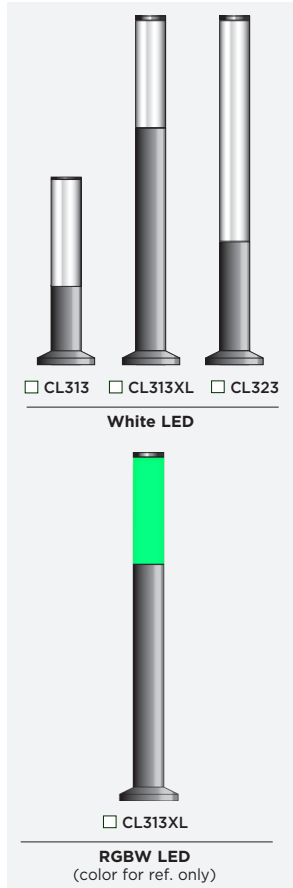
Descriptive Information

CL323-L4L20
Total Lms: 2250 Lumens
Total Input Watts: 30W
Efficacy: 75 Lumens/Watt
BUG : B1-U4-G2
CCT/CRI: 4000K/80
Maximum Candela: 241 @ 0°H/87.5°V

Please visit our web site www.luminis.com for complete I.E.S. formatted download data.

LUMINAIRE SELECTION

1 MODEL



2 LED LIGHT SELECTION (4000K/80CRI)

	SUFFIX	DELIVERED LUMENS	INPUT WATTS
CL313	<input type="checkbox"/> L56W10	830	10
CL313XL	<input type="checkbox"/> L56W10	830	10
	<input type="checkbox"/> L56W15	1230	15
CL323	<input type="checkbox"/> L112W10	830	10
	<input type="checkbox"/> L112W20	1640	20
	<input type="checkbox"/> L112W30	2250	30

3 VOLTAGE ¹ 4 FINISH

☐ 120V
☐ 277V

STANDARD COLORS*

☐ WHT Snow white
☐ BKT Jet black
☐ BZT Bronze
☐ MST Matte silver
☐ GRT Titanium gray
☐ DGT Gun metal
☐ CHT Champagne
☐ SGT Steel Gray
☐ BGT English Cream

OPTIONAL COLORS

☐ CS Custom color
☐ RAL RAL# color
☐ MG Marine Grade⁴
(Ensure to also select the standard color)

*Refer to color chart

RGBW SELECTION ⁵

	SUFFIX	DELIVERED LUMENS	INPUT WATTS	LM/FT
CL313XL	<input type="checkbox"/> L4RGBW	662	12	662

Note: Values are for total delivered lumens. For individual maximum output values, refer to page 3. White CCT is 4000K & 80CRI.

LUMINIS®

LUMINIS | Toll free: 866.586.4647 Fax: 514.683.8872 Email: info@luminis.com
260 Labrosse, Pointe-Claire (QC) Canada H9R 5L5

Luminaires may be altered for design improvement or discontinued without prior notice.

LUMINIS.COM

TYPE OB1.2

July 2022 Rev. 5

CL313/CL313XL/CL323 SERIES LumiSTIK

OPTIONS

ELECTRICAL

- ☐ **REML2-50** Remote mount battery backup for LED 90 mins, 7W²
Remote mount to 50ft. 12" square enclosure with acces cover
- ☐ **FS** Fuse
- ☐ **PH** Photocell³
- ☐ **SP** Surge protector 10KV

MOUNTING

Alternate CCT °K LED (LCF: Lumen conversion factor)

- ☐ **K3** 3000K CCT 80 CRI (LCF: 0.94)
- ☐ **K35** 3500K CCT 80 CRI (LCF: 0.983)
- ☐ **K4** 4000K CCT 80 CRI (LCF: 1.00)

NOTE: Other CCT & higher CRI available, please consult factory.

FAUX WOOD COLORS⁶

- | | |
|------------------------------------------------------|----------------------------------------------|
| <input type="checkbox"/> ADG American douglas | <input type="checkbox"/> MPL Maple |
| <input type="checkbox"/> BRC Birch | <input type="checkbox"/> OFL Oak |
| <input type="checkbox"/> CHN Chestnut | <input type="checkbox"/> RSW Rosewood |
| <input type="checkbox"/> CRY Cherry | <input type="checkbox"/> TEK Teak |
| <input type="checkbox"/> KNP Knotty pine | <input type="checkbox"/> WLN Walnut |

NOTES

- 1- If no voltage is specified, luminaires are factory prewired by default for 120V. For other voltages, please specify with catalog number, or consult factory.
- 2- The remote enclosure must be interior.
- 3- Only available on CL313XL. Photocell installed on the side of the fixture.
- 4- Marine grade paint for harsh, coastal environment and exposure to salt water. Additional delay required please contact factory for info.
- 5- RGBW not available with options PH and REML2-50.
- 6- Faux wood finish not applied to fixture head or base cover. Not compatible with marine grade finish.

RGBW DETAILS

RGBW

Total delivered lumens⁵

Maximum output values									
SUFFIX		WHITE 4000K			TOT RGB			TOT	
		W	lm	lm/ft	W	lm	lm/ft	W	lm
CL313XL	<input type="checkbox"/> L4RGBW	3	374	374	9	288	288	12	662

This option is not RDM. For the desired DMX addresses, the client needs to fill a separate form to provide channel addresses.

If not communicated by the client, the fixtures will be labeled and delivered with a start address at DMX1, with an increment of 4.

Fixture #1 will be on address 1, fixture #2 will be on address 5, fixture #3 will be on address 9, etc.

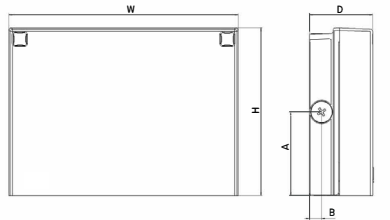




WPX LED Wall Packs



Specifications



Front View

Side View

Luminaire	Height (H)	Width (W)	Depth (D)	Side Conduit Location		Weight
				A	B	
WPX1	8.1" (20.6 cm)	11.1" (28.3 cm)	3.2" (8.1 cm)	4.0" (10.3 cm)	0.6" (1.6 cm)	6.1 lbs (2.8kg)
WPX2	9.1" (23.1 cm)	12.3" (31.1 cm)	4.1" (10.5 cm)	4.5" (11.5 cm)	0.7" (1.7 cm)	8.2 lbs (3.7kg)
WPX3	9.5" (24.1 cm)	13.0" (33.0 cm)	5.5" (13.7 cm)	4.7" (12.0 cm)	0.7" (1.7 cm)	11.0 lbs (5.0kg)

Catalog
Number

Notes

Type

TYPE OW2

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The WPX LED wall packs are energy-efficient, cost-effective, and aesthetically appealing solutions for both HID wall pack replacement and new construction opportunities. Available in three sizes, the WPX family delivers 1,550 to 9,200 lumens with a wide, uniform distribution.

The WPX full cut-off solutions fully cover the footprint of the HID glass wall packs that they replace, providing a neat installation and an upgraded appearance. Reliable IP66 construction and excellent LED lumen maintenance ensure a long service life. Photocell and emergency egress battery options make WPX ideal for every wall mounted lighting application.

Ordering Information

EXAMPLE: WPX2 LED 40K MVOLT DDBXD

Series		Color Temperature		Voltage		Options		Finish	
WPX1 LED P1	1,550 Lumens, 11W ¹	30K	3000K	MVOLT	120V - 277V	(blank)	None	DDBXD	Dark bronze
WPX1 LED P2	2,900 Lumens, 24W	40K	4000K	347	347V ³	E4WH	Emergency battery backup, CEC compliant (4W, 0°C min) ²	DWHXD	White
WPX2 LED	6,000 Lumens, 47W	50K	5000K			E14WC	Emergency battery backup, CEC compliant (14W, -20°C min) ²	DBLXD	Black
WPX3 LED	9,200 Lumens, 69W					PE	Photocell ³	Note: For other options, consult factory.	

Note: The lumen output and input power shown in the ordering tree are average representations of all configuration options. Specific values are available on request.

NOTES

1. All WPX wall packs come with 6kV surge protection standard, except WPX1 LED P1 package which comes with 2.5kV surge protection standard. Add SPD6KV option to get WPX1 LED P1 with 6kV surge protection.
Sample nomenclature: WPX1 LED P1 40K MVOLT SPD6KV DDBXD
2. Battery pack options only available on WPX1 and WPX2.
3. Battery pack options not available with 347V and PE options.

FEATURES & SPECIFICATIONS

INTENDED USE

The WPX LED wall packs are designed to provide a cost-effective, energy-efficient solution for the one-for-one replacement of existing HID wall packs. The WPX1, WPX2 and WPX3 are ideal for replacing up to 150W, 250W, and 400W HID luminaires respectively. WPX luminaires deliver a uniform, wide distribution. WPX is rated for -40°C to 40°C.

CONSTRUCTION

WPX feature a die-cast aluminum main body with optimal thermal management that both enhances LED efficacy and extends component life. The luminaires are IP66 rated, and sealed against moisture or environmental contaminants.

ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs and LED lumen maintenance of L90/100,000 hours. Color temperature (CCT) options of 3000K, 4000K and 5000K with minimum CRI of 70. Electronic drivers ensure system power factor >90% and THD <20%. All luminaires have 6kV surge protection (Note: WPX1 LED P1 package comes with a standard surge protection rating of 2.5kV. It can be ordered with an optional 6kV surge protection). All photocell (PE) operate on MVOLT (120V - 277V) input.

Note: The standard WPX LED wall pack luminaires come with field-adjustable drive current feature. This feature allows tuning the output current of the LED drivers to adjust the lumen output (to dim the luminaire).

INSTALLATION

WPX can be mounted directly over a standard electrical junction box. Three 1/2 inch conduit ports on three sides allow for surface conduit wiring. A port on the back surface allows poke-through conduit wiring on surfaces that don't have an electrical junction box. Wiring can be made in the integral wiring compartment in all cases. WPX is only recommended for installations with LEDs facing downwards.

LISTINGS

CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. IP66 Rated. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

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/CustomerResources/Terms_and_conditions.aspx.

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. Specifications subject to change without notice.



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TYPE OW2.1

COMMERCIAL OUTDOOR

Performance Data

Electrical Load

Luminaire	Input Power (W)	120V	208V	240V	277V	347V
WPX1 LED P1	11W	0.09	0.05	0.05	0.04	0.03
WPX1 LED P2	24W	0.20	0.12	0.10	0.09	0.07
WPX2	47W	0.39	0.23	0.20	0.17	0.14
WPX3	69W	0.58	0.33	0.29	0.25	0.20

Projected LED Lumen Maintenance

Data references the extrapolated performance projections in a 25°C ambient, based on 6,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	50,000	75,000	100,000
Lumen Maintenance Factor	>0.94	>0.92	>0.90

Lumen Output

Luminaire	Color Temperature	Lumen Output
WPX1 LED P1	3000K	1,537
	4000K	1,568
	5000K	1,602
WPX1 LED P2	3000K	2,748
	4000K	2,912
	5000K	2,954
WPX2	3000K	5,719
	4000K	5,896
	5000K	6,201
WPX3	3000K	8,984
	4000K	9,269
	5000K	9,393

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

Ambient	Ambient	Lumen Multiplier
0°C	32°F	1.05
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

HID Replacement Guide

Luminaire	Equivalent HID Lamp	WPX Input Power
WPX1 LED P1	100W	11W
WPX1 LED P2	150W	24W
WPX2	250W	47W
WPX3	400W	69W

Emergency Egress Battery Packs

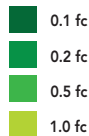
The emergency battery backup is integral to the luminaire — no external housing or back box is required. The emergency battery will power the luminaire for a minimum duration of 90 minutes and deliver minimum initial output of 550 lumens. Both battery pack options are CEC compliant.

Battery Type	Minimum Temperature Rating	Power (Watts)	Controls Option	Ordering Example
Standard	0°C	4W	E4WH	WPX2 LED 40K MVOLT E4WH DDBXD
Cold Weather	-20°C	14W	E14WC	WPX2 LED 40K MVOLT E14WC DDBXD

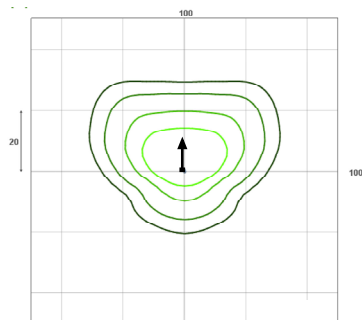
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting [WPX LED](#) homepage. Tested in accordance with IESNA LM-79 and LM-80 standards

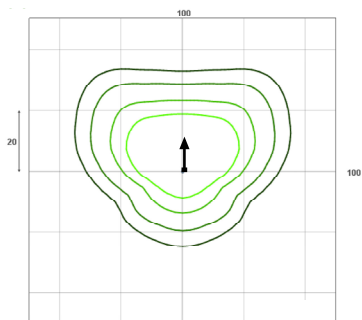
LEGEND



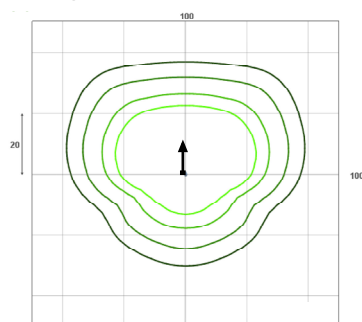
WPX1 LED P1



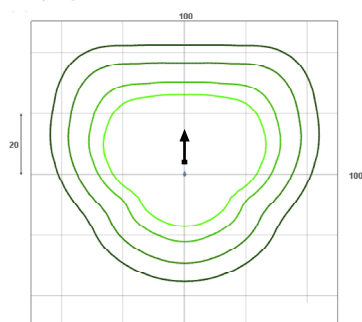
WPX1 LED P2



WPX2 LED



WPX3 LED



Mounting Height = 12 Feet.



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TYPE OW2.2



WDGE2 LED

Architectural Wall Sconce

Precision Refractive Optic



Catalog
Number

Notes

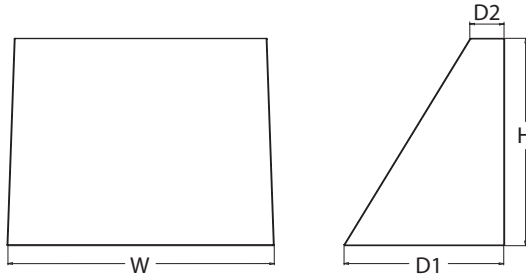
Type

TYPE OW3

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

Depth (D1): 7"
Depth (D2): 1.5"
Height: 9"
Width: 11.5"
Weight: 13.5 lbs
 (without options)



Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE2 with industry leading precision refractive optics provides great uniform distribution and optical control. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI)						
					P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	--	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE2 LED P3 40K 80CRI VF MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting	
WDGE2 LED	P0 ¹	27K 2700K	70CRI ⁴	T1S Type I Short	MVOLT	Shipped included SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only) ⁶	Shipped separately AWS 3/8inch Architectural wall spacer PBBW Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.
	P1 ²	30K 3000K	80CRI	T2M Type II Medium	347 ⁵		
	P2 ²	40K 4000K	LW ³ Limited Wavelength	T3M Type III Medium	480 ⁵		
	P3 ²	50K 5000K		T4M Type IV Medium			
	P4 ²	AMB ³ Amber		TFTM Forward Throw Medium			

Options				Finish	
E10WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)	Standalone Sensors/Controls PIR Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching. PIRH Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching PIR1FC3V Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation. PIRH1FC3V Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation. Networked Sensors/Controls NLTAIR2 PIR nLightAIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights. NLTAIR2 PIRH nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights. See page 4 for out of box functionality	DDBXD	Dark bronze	
E20WC	Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min)		DBLXD	Black	
PE ⁷	Photocell, Button Type		DNAXD	Natural aluminum	
DMG ⁸	0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)		DWHXD	White	
BCE	Bottom conduit entry for back box (PBBW). Total of 4 entry points.		DSSXD	Sandstone	
BAA	Buy America(n) Act Compliant		DDBTXD	Textured dark bronze	
			DBLBDX	Textured black	
			DNATXD	Textured natural aluminum	
			DWHGXD	Textured white	
			DSSTXD	Textured sandstone	



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TYPE OW3.1

Accessories

Ordered and shipped separately.

WDGEAWS DDBXD WEDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE2PB8W DDBXD U WEDGE2 surface-mounted back box (specify finish)

NOTES

- 1 PO option not available with sensors/controls.
- 2 P1-P4 not available with AMB and LW.
- 3 AMB and LW always go together.
- 4 70CRI only available with T3M and T4M.
- 5 347V and 480V not available with E10WH or E20WC.
- 6 Not qualified for DLC. Not available with emergency battery backup or sensors/controls.
- 7 PE not available in 480V or with sensors/controls.
- 8 DMG option not available with sensors/controls.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI)					30K (3000K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)					Amber (Limited Wavelength)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P0	7W	T1S	636	92	0	0	0	666	97	0	0	0	699	101	0	0	1	691	100	0	0	1	712	47	0	0	1
		T2M	662	96	0	0	0	693	101	0	0	0	728	106	0	0	0	719	104	0	0	0	741	48	0	0	0
		T3M	662	96	0	0	0	693	101	0	0	0	728	106	0	0	0	719	104	0	0	0	741	48	0	0	0
		T4M	648	94	0	0	0	679	98	0	0	0	712	103	0	0	0	704	102	0	0	0	726	47	0	0	0
		TFTM	652	95	0	0	0	683	99	0	0	0	717	104	0	0	0	708	103	0	0	0	730	48	0	0	1
P1	11W	T1S	1,105	99	0	0	1	1,157	104	0	0	1	1,215	109	0	0	1	1,200	107	0	0	1					
		T2M	1,150	103	0	0	1	1,204	108	0	0	1	1,264	113	0	0	1	1,249	112	0	0	1					
		T3M	1,150	103	0	0	1	1,205	108	0	0	1	1,265	113	0	0	1	1,250	112	0	0	1					
		T4M	1,126	101	0	0	1	1,179	106	0	0	1	1,238	111	0	0	1	1,223	110	0	0	1					
		TFTM	1,133	101	0	0	1	1,186	106	0	0	1	1,245	112	0	0	1	1,230	110	0	0	1					
P2	19W	T1S	1,801	95	1	0	1	1,886	99	1	0	1	1,981	104	1	0	1	1,957	103	1	0	1					
		T2M	1,875	99	1	0	1	1,963	103	1	0	1	2,061	109	1	0	1	2,037	107	1	0	1					
		T3M	1,876	99	1	0	1	1,964	103	1	0	1	2,062	109	1	0	1	2,038	107	1	0	1					
		T4M	1,836	97	1	0	1	1,922	101	1	0	1	2,018	106	1	0	1	1,994	105	1	0	1					
		TFTM	1,847	97	1	0	1	1,934	102	1	0	1	2,030	107	1	0	1	2,006	106	1	0	1					
P3	32W	T1S	2,809	87	1	0	1	2,942	92	1	0	1	3,089	96	1	0	1	3,052	95	1	0	1					
		T2M	2,924	91	1	0	1	3,062	95	1	0	1	3,215	100	1	0	1	3,176	99	1	0	1					
		T3M	2,925	91	1	0	1	3,063	95	1	0	1	3,216	100	1	0	1	3,177	99	1	0	1					
		T4M	2,862	89	1	0	1	2,997	93	1	0	1	3,147	98	1	0	1	3,110	97	1	0	1					
		TFTM	2,880	90	1	0	1	3,015	94	1	0	1	3,166	99	1	0	1	3,128	97	1	0	1					
P4	47W	T1S	3,729	80	1	0	1	3,904	84	1	0	1	4,099	88	1	0	1	4,051	87	1	0	1					
		T2M	3,881	83	1	0	1	4,063	87	1	0	1	4,267	91	1	0	1	4,216	90	1	0	1					
		T3M	3,882	83	1	0	1	4,065	87	1	0	1	4,268	91	1	0	1	4,217	90	1	0	1					
		T4M	3,799	81	1	0	1	3,978	85	1	0	1	4,177	90	1	0	1	4,127	88	1	0	1					
		TFTM	3,822	82	1	0	1	4,002	86	1	0	1	4,202	90	1	0	1	4,152	89	1	0	1					

Performance Package	System Watts	Dist. Type	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P0	7W	T3M	737	107	0	0	0	763	111	0	0	0	822	119	0	0	0	832	121	0	0	1
		T4M	721	105	0	0	0	746	108	0	0	0	804	117	0	0	1	814	118	0	0	1
P1	11W	T3M	1,280	115	0	0	1	1,325	119	0	0	1	1,427	128	1	0	1	1,445	129	1	0	1
		T4M	1,253	112	0	0	1	1,297	116	0	0	1	1,397	125	0	0	1	1,415	127	0	0	1
P2	19W	T3M	2,087	110	1	0	1	2,160	114	1	0	1	2,327	123	1	0	1	2,357	124	1	0	1
		T4M	2,042	108	1	0	1	2,114	111	1	0	1	2,278	120	1	0	1	2,306	121	1	0	1
P3	32W	T3M	3,254	101	1	0	1	3,369	105	1	0	1	3,629	113	1	0	1	3,675	114	1	0	1
		T4M	3,185	99	1	0	1	3,297	103	1	0	1	3,552	111	1	0	1	3,597	112	1	0	1
P4	47W	T3M	4,319	93	1	0	1	4,471	96	1	0	1	4,817	103	1	0	2	4,878	105	1	0	2
		T4M	4,227	91	1	0	1	4,376	94	1	0	2	4,714	101	1	0	2	4,774	102	1	0	2

Electrical Load

Performance Package	System Watts	Current (A)					
		120Vac	208Vac	240Vac	277Vac	347Vac	480Vac
P0	7.0	0.061	0.042	0.04	0.039	--	--
	9.0	--	--	--	--	0.031	0.021
P1	11.0	0.100	0.064	0.059	0.054	--	--
	14.1	--	--	--	--	0.046	0.031
P2	19.0	0.168	0.106	0.095	0.083	--	--
	22.8	--	--	--	--	0.067	0.050
P3	32.0	0.284	0.163	0.144	0.131	--	--
	37.1	--	--	--	--	0.107	0.079
P4	47.0	0.412	0.234	0.207	0.185	--	--
	53.5	--	--	--	--	0.153	0.112

Lumen Output in Emergency Mode (4000K, 80 CRI, T3M)

Option	Lumens
E10WH	1,358
E20WC	2,230

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

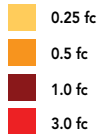
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.93	>0.87

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.

LEGEND



MH = 10ft
Grid = 10ft x 10ft



Emergency Egress Options

Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9



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TYPE OW3.3

Motion/Ambient Sensor (PIR_, PIRH_)

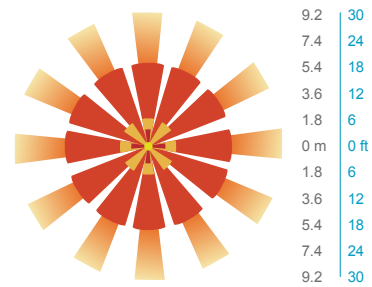
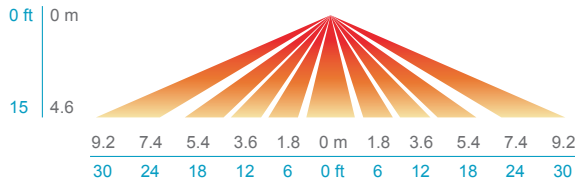
Motion/Ambient sensor (Sensor Switch MSOD) is integrated into the the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

Networked Control (NLTAIR2)

nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.

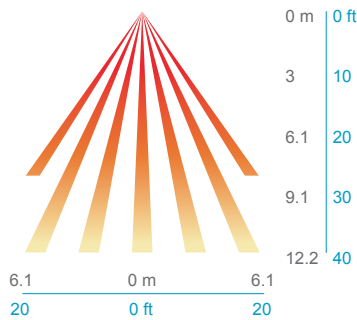
PIR

HIGH VIEW

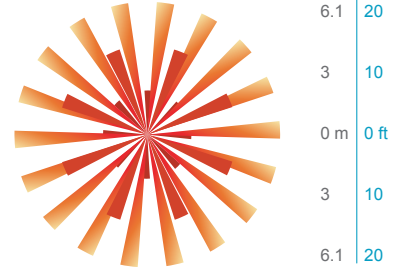


PIRH

SIDE VIEW



TOP VIEW



Option	Dim Level	High Level (when triggered)	Photocell Operation	Motion Time Delay	Ramp-down Time	Ramp-up Time
PIR or PIRH	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
PIR1FC3V, PIRH1FC3V	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 1fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
NLTAIR2 PIR, NLTAIR2 PIRH (out of box)	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	7.5 min	5 min	Motion - 3 sec Photocell - 45 sec



Motion/Ambient Sensor

D = 7"

H = 9" (Standalone controls)

11" (nLight AIR controls, 2" antenna will be pointing down behind the sensor)

W = 11.5"



PBBW – Surface-Mounted Back Box

Use when there is no junction box available.

D = 1.75"

H = 9"

W = 11.5"



AWS – 3/8inch Architectural Wall Spacer

D = 0.38"

H = 4.4"

W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE

Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

FINISH

Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Individually formed acrylic lenses are engineered for superior application efficiency which maximizes the light in the areas where it is most needed. The WDGE LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

BUY AMERICAN ACT

Product with the BAA option 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 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

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. Specifications subject to change without notice.

PLATE OUT DOUBLE 3450

PROJECT PROJET

SPEC TYPE

NOTES

TYPE OW4



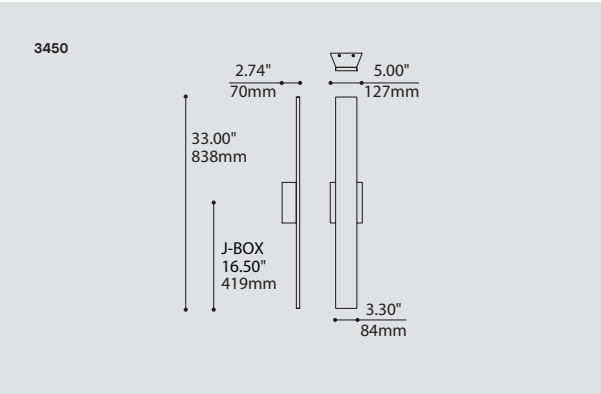
OPTIONS





WHE



BLKE



ORDERING SPECIFICATION		SPÉCIFICATION DE COMMANDE		CODE
MODEL			MODÈLE	3450
3450	PLATE OUT DOUBLE			
LIGHT SOURCE			SOURCE LUMINEUSE	
(WATTAGE, LAMP TYPE, OTHER INFO)				
LED		REGULAR OUTPUT		
LED.HO		HIGH OUTPUT		
COLOR TEMPERATURE			TEMPÉRATURE DE COULEUR	
27*	2700K			
30	3000K			
35	3500K			
40	4000K			
* 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)			
HOUSING			BOITIER	
WHE	WHITE FINE TEXTURE			
ANTE	ANTHRACITE FINE TEXTURE			
BLKE	BLACK FINE TEXTURE			

PRODUCT CHARACTERISTICS CARACTÉRISTIQUES DU PRODUIT



DESIGN:	Designed for use in corridors and public areas, these wall mounted indirect luminaires are outdoor versions of our Plate and are built to be rugged and withstand the elements. They are available in a classic simple version or with the extended double light source version. Both are ADA compliant and can be used indoors.
LIGHT SOURCE:	Linear LED strip with self-modulating temperature control for an optimal performance and lifetime. Available with standard 0-10V dimming.
CONSTRUCTION	CNC machined aluminum, die-stamped galvanized steel and four levels of die-cut silicone gaskets for secure weather resistance.
DIFFUSER:	Translucent frosted acrylic.
CERTIFIED:	CSA Listed to US and Canadian safety standards; 25°C ambient and wet-locations. IP65 rated
CONCEPTION:	Conçues pour être utilisées dans les couloirs et espaces publics, ces appliques murales à éclairage indirect sont des versions extérieures de notre Plate et sont conçues pour être robustes et résister aux intempéries. Elles sont offertes en version simple et en version étendue avec source lumineuse doublée. Elles sont conformes à la norme ADA et peuvent être installées à l'intérieur.
SOURCE LUMINEUSE:	Bande lumineuse DEL avec autocontrôle de température pour une performance et durée de vie optimale. Offert avec gradation standard 0-10V.
CONSTRUCTION:	Aluminium usiné par contrôle numérique, acier galvanisé découpé et plié avec les joints d'étanchéité en silicone comprimé pour résister aux intempéries.
DIFFUSEUR:	Acrylique givré translucide.
CERTIFIÉ:	Homologué CSA aux standards UL Canada et É.-U. - Température ambiante 25°C et emplacements mouillés. Conforme à la norme IP65

PLATE OUT 3449/3450

DESIGNED FOR
CONÇU POUR

IP65

CONTACT EUREKA FOR MORE INFORMATION
CONTACTEZ EUREKA POUR PLUS D'INFORMATIONS

3449

2.74"70mm

5.00"127mm

19.67"500mm

J-BOX
3.17"81mm

3.30"84mm

3450

2.74"70mm

5.00"127mm

33.0"838mm

J-BOX
16.5"419mm

3.30"84mm

ALUMINUM STRUCTURE
Natural heat-sink
CNC machined with fine textured exterior polyester finish

LED LIGHT ENGINE
ANSI binned white LED with on-board thermal management located inside of aluminum structure

MOUNTING FASTENERS

DRIVER HOUSING
Fits regular drivers
Easy mounting installation

WEATHERPROOF
Self-adhesive gaskets
Die-cut silicone sponges
Fully sealed
Wet location rated

MOUNTING
Installs to 4" octagonal box (supplied by others)

EASY INSTALLATION
Sturdy 16 GA. galvanized steel mounting bracket

MINIMALIST DESIGN
Extended double light source indirect wall fixture can be mounted vertically or horizontally

PIA'14
PRODUCT INNOVATION AWARD
Architectural PRODUCTS

reddot award 2015
winner

reddot 21
world of design

PRODUCT SPECIFICATION	3449 - REG	3449 - HO	3450 - REG	3450 - HO
PERFORMANCE				
SYSTEM WATTAGE	4.9 W	7.3 W	9.9 W	14.6 W
DELIVERED LUMENS (4000K)	378LM	540 LM	757 LM	1080 LM
EFFICACY	77.1 LM/W	73.9 LM/W	76.4 LM/W	73.9 LM/W
OTHER INFORMATION				
LUMINAIRE'S WEIGHT	6.53LBS LBS / 2.97 KG	6.53LBS LBS / 2.97 KG	8.45 LBS LBS / 3.84 KG	8.45 LBS / 3.84 KG
L70 (LUMEN MAINTENANCE)	> 60 000 HRS	> 60 000 HRS	> 60 000 HRS	> 60 000 HRS

EFFICACY MULTIPLIERS

CRI	CCT	FACTOR
80+	4000K	1.00
80+	3500K	0.98
80+	3000K	0.94
80+	2700K	0.91
90+	4000K	0.88
90+	3500K	0.85
90+	3000K	0.81
90+	2700K	0.77

LIGHT DISTRIBUTION

3449-REG

3449-HO

3450-REG

3450-HO

TYPE OW4.2

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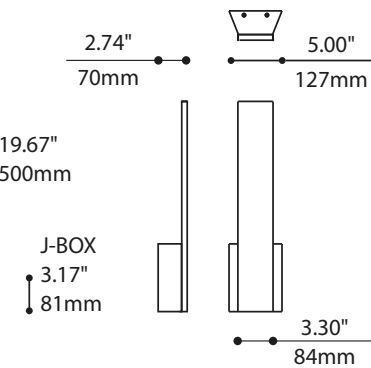
V1.0 - 2023.08

PLATE OUT 3449/3450

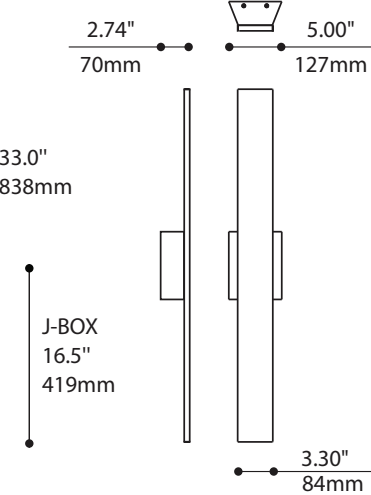
DESIGNED FOR
CONÇU POUR **IP65**

CONTACT EUREKA FOR MORE INFORMATION
CONTACTEZ EUREKA POUR PLUS D'INFORMATIONS

3449



3450



STRUCTURE D'ALUMINIUM
Pièces usinées par contrôle
numérique fonctionnant
comme dissipateur thermique
et peinturées à base de
polyester fine texture

SOURCE LUMINEUSE À DEL
Bandes DEL blanches offertes
avec un dissipateur thermique
intégré, localisées à l'intérieur
de la structure en aluminium

**VIS DE
SÉCURITÉ
CACHÉS**

BOÎTIER DE LUMINAIRE
Convient aux pilotes de DEL
avec un système
d'installation facile

RÉSISTE AUX INTEMPÉRIES
Joints d'étanchéité autocollants
Silicone éponges découpées
Scellage complet
Convient aux endroits mouillés

SYSTÈME DE MONTAGE
Convient à la boîte de jonction
octogone 4" (non incluse)

INSTALLATION SOLIDE
Plaque murale en acier
galvanisé 16 GA

DESIGN MINIMALISTE
Version à double source
lumineuse indirecte
pouvant être montée
verticalement ou
horizontalement



SPECIFICATION PRODUIT

3449 - REG

3449 - HO

3450 - REG

3450 - HO

PERFORMANCE

PUISSANCE TOTALE	4.9 W	7.3 W	9.9 W	14.6 W
LUMENS RÉELS (4000K)	378 LM	540 LM	757 LM	1080 LM
EFFICACITÉ	77.1 LM/W	73.9 LM/W	76.4 LM/W	73.9 LM/W

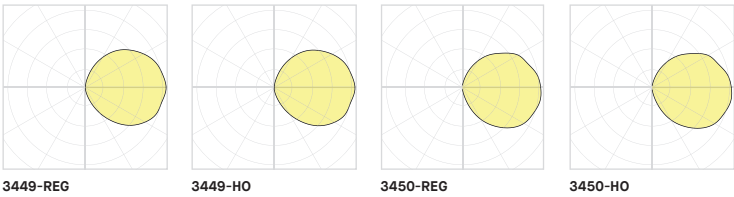
AUTRES INFORMATIONS

POIDS PAR TÊTE	6.53LBS LBS / 2.97 KG	6.53LBS LBS / 2.97 KG	8.45 LBS LBS / 3.84 KG	8.45 LBS / 3.84 KG
L70 (MAINTENANCE DE LA LUMIÈRE)	> 60 000 H	> 60 000 H	> 60 000 H	> 60 000 H

FACTEUR D'EFFICACITÉ

IRC	CCT	FACTEUR
80+	4000K	1.00
80+	3500K	0.98
80+	3000K	0.94
80+	2700K	0.91
90+	4000K	0.88
90+	3500K	0.85
90+	3000K	0.81
90+	2700K	0.77

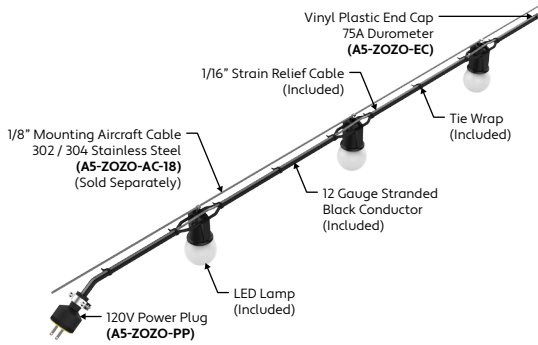
DISTRIBUTION LUMINEUSE



VisiteznotresiteWebpourlesternesetconditions.



TYPE OW4.3



GENERAL FEATURES

Applications	Indoor and Outdoor
Length	Built to Order (+/- 1/8" Tolerance)
Finish	Black
Feed	Standard 6' Power Lead
Strain Relief	Cable (Included, Not for Mounting)
Mounting	Mounting Aircraft Cable (Sold Separately)
Listing	Dry or Wet Location ANSI/UL1598 CSA 22.2 No. 250.0-04, 2nd Edition
Options	Mesh, Canopies, or Cages
UV Rating	Sun Light Resistance
Installation Link	Link to Installation Instructions >

ELECTRICAL

Dimming	Forward Phase
Maximum Run	250' without Canopies 100' with Canopies
System	20 Amps (12 Gauge Wire)
Wattage	1W or 3W Lamps (+/- 0.25W Tolerance)
Operating Temperature	-25°C to +45°C (-13°F to +113°F)
Luminaire Voltage	120V

CANOPY OPTIONS (Click Image to See Individual Submittal)



SPECIFY PRODUCT CODE | CHOOSE FROM DROP DOWNS

Series		Spacing	Lamp		Dimming	Listing	Luminaire Length
Standard (No Canopy) (A5-ZOZO-STN)	Bell Canopy (A5-ZOZO-BLL)	12" on Center (12")	2700K, G-Shape (27K-GSF)	5000K, G-Shape Filament (50K-GSFL)	Forward Phase (DM)	Indoor (DRY)	Specify Length in Feet Example: 100'
		18" on Center (18")	5000K, G-Shape (50K-GSF)	2700K, S-Shape Frosted (27K-SSF)			
Round Canopy (A5-ZOZO-RND)	Flat Canopy (A5-ZOZO-FLT)	24" on Center (24")	Red, G-Shape (R-GSF)	5000K, S-Shape Frosted (50K-SSF)	Leave Blank for Non-Dimming	Outdoor (WET)	
		36" on Center (36")	Green, G-Shape (G-GSF)	Orange, S-Shape Frosted (OR-SSF)			
Round Canopy with Cage (A5-ZOZO-RNC)	Mesh Canopy (A5-ZOZO-MSH)	48" on Center (48")	Blue, G-Shape (B-GSF)	2700K, S-Shape Clear (27K-SSC)			
		60" on Center (60")	Amber, G-Shape (A-GSF)	5000K, S-Shape Clear (50K-SSC)			
Cone Canopy (A5-ZOZO-CON)	Barrel Canopy (A5-ZOZO-BRL)		2400K, G-Shape Filament (24K-GSFL)	Red, S-Shape Clear (R-SSC)			
			2700K, G-Shape Filament (27K-GSFL)	Green, S-Shape Clear (G-SSC)			
Cone Canopy with Cage (A5-ZOZO-COC)	Hat Canopy (A5-ZOZO-HAT)		3000K, G-Shape Filament (30K-GSFL)	Blue, S-Shape Clear (B-SSC)			
			3500K, G-Shape Filament (35K-GSFL)	Amber, S-Shape Clear (A-SSC)			
			4000K, G-Shape Filament (40K-GSFL)	No Lamps* (NL)			

*1 Lighting will be shipped without lamps.

1170 N Red Gum St, Anaheim, CA 92806

aluz.lighting info@aluz.lighting 866.ALUZ.LTG | 714.535.7900

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Specification Submittal

TYPE S1.1

LAMP OPTIONS

Lamp Image & Dimensions



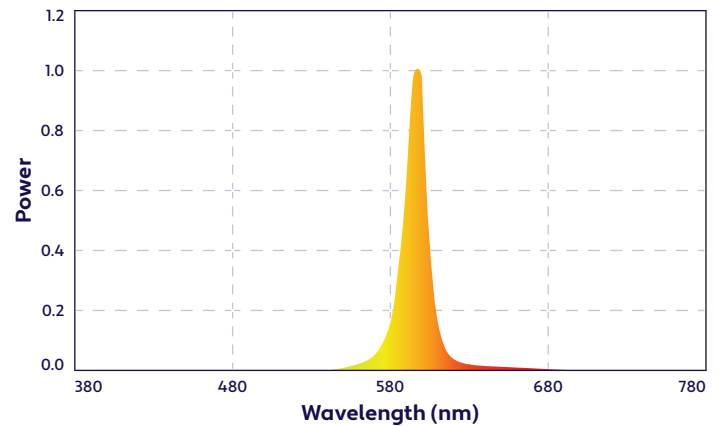
Lamp Name & Product Code	G-Shaped Lamp (GSF)	G-Shaped Filament Lamp (GSFL)	S-Shaped Lamp (SSF)	S-Shaped Clear Lamp (SSC)
Lamp Type	Standard LED	Filament LED	Standard LED	Standard LED
Material	Polymer Plastic	Glass	Polymer Plastic	Polymer Plastic
Lamp Life	20,000 hrs.	25,000 hrs.	20,000 hrs.	20,000 hrs.
Lumens	42	256	42	42
Beam Angle	360°	360°	360°	360°
Appearance	Frosted	Clear	Frosted	Clear, Textured
CCT & Colors	27K, 50K, R, G, B, A	24K, 27K, 30K, 35K, 40K, 50K	27K, 50K, OR	27K, 50K, R, G, B, A
Lamp Watts	1W	3W	1W	1W

Note: Lamp dimensions are subject to change without notice. +/- 0.25W Wattage Tolerance.

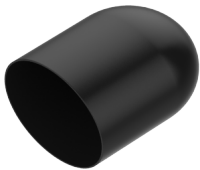
LAMP SPECIFICATIONS

Lamp Number	Correlated Color Temperature	Description	Available Lamp Shapes
24K	2400 Kelvin	Incandescent White	(GSFL)
27K	2700 Kelvin	Warm White	(GSF), (GSFL), (SSF), (SSC)
30K	3000 Kelvin	Warm White	(GSFL)
35K	3500 Kelvin	Neutral White	(GSFL)
40K	4000 Kelvin	Neutral White	(GSFL)
50K	5000 Kelvin	Cool White	(GSF), (GSFL), (SSF), (SSC)
R	Red	621nm	(GSF), (SSC)
G	Green	525nm	(GSF), (SSC)
B	Blue	470nm	(GSF), (SSC)
A	Amber	590nm	(GSF), (SSC)
OR	Orange	610nm	(SSF)

SPECTRAL POWER DISTRIBUTION AMBER LED (590nm) TURTLE FRIENDLY



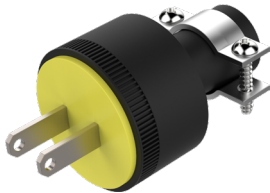
ACCESSORIES (Sold Separately)



Vinyl Plastic End Cap
75A Durometer
(A5-ZOZO-EC)

Part #	Qty.
A5-ZOZO-EC	

Note: Use 1 End Cap at the end of each run.



120V Power Plug
Rubber Casing
(A5-ZOZO-PP)

Part #	Qty.
A5-ZOZO-PP	

Note: Use 1 Power Plug for each run that will not be hardwired.

MOUNTING ACCESSORIES (Sold Separately - Click Image to See Cut Sheet, If Applicable)



↓ Mounting Aircraft Cable, 1/8"Ø
302 / 304 Stainless Steel
(A5-ZOZO-AC-18-X) X = Specify Length

Part #	Length	Qty.
A5-ZOZO-AC-18-		

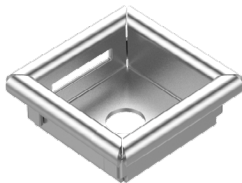
Note: Order cable to desired length. Order in 50' increments up to 500' per reel.



↓ Cable Lock for 1/8"Ø Cable
Zinc Plated
(A5-ZOZO-CL-18)

Part #	Qty.
A5-ZOZO-CL-18-	

Note: Use 1 Cable Lock per run, if using this method. Refer to installation instructions for alternative mounting options.



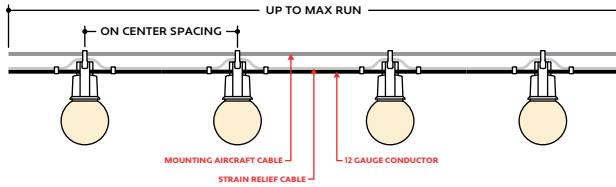
Mounting Plate
Stainless Steel
(A5-ZOZO-MP)

Part #	Qty.
A5-ZOZO-MP	

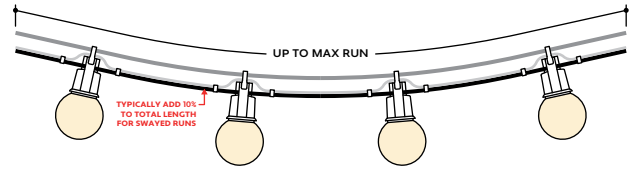
Note: Use Mounting Plates when mounting to a ceiling. Refer to installation instructions for details.

DESIGN GUIDELINES

Straight Run

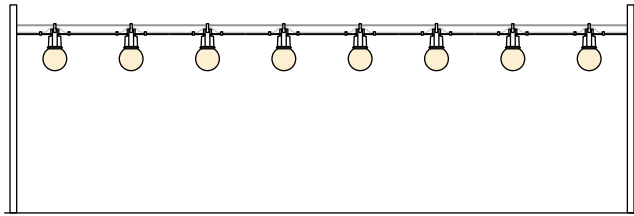


Swayed Run

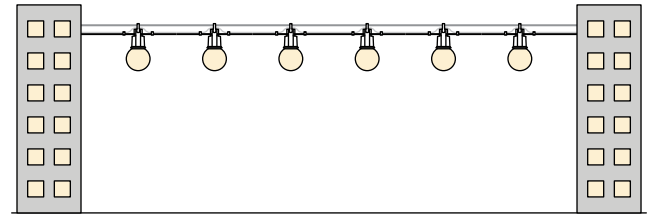


INSTALLATION OPTIONS

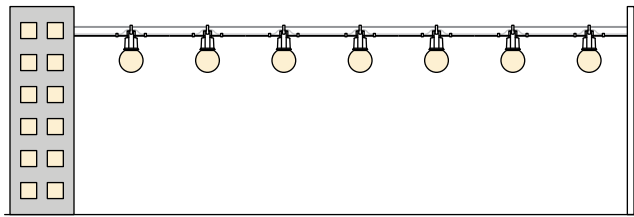
Pole to Pole



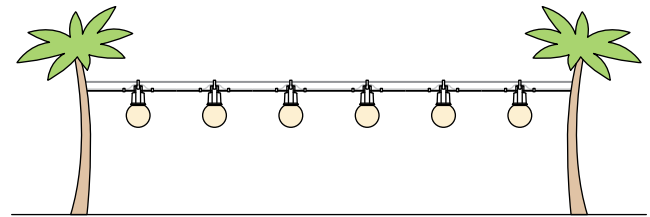
Building to Building



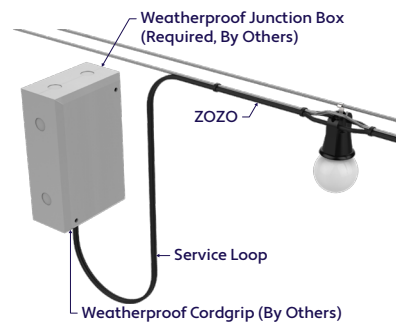
Building to Pole



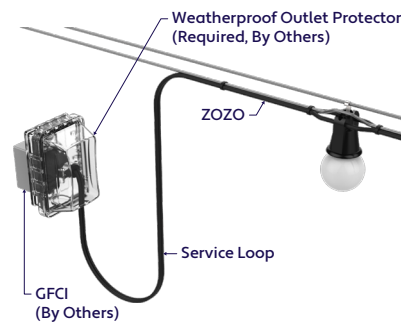
Tree to Tree



HARDWIRE INSTALLATION (Wet Location)



POWER PLUG INSTALLATION (Wet Location)



INSTALLATION RECOMMENDATIONS

- Determine weight of string light that will be used.
- Determine length of string light and multiply by weight.
- An engineer must choose the proper aircraft cable to handle the tension, based on length and weight to prevent product from sagging.
- An engineer must determine the strength of the structure where the cable will attach, based on tension calculation from previous step.
- If installing on a pole, check with pole manufacturer to confirm the pole can handle the tension.
- String light is hung to the above aircraft cable using the hooks. Secure hooks to aircraft cable by crimping or using stainless steel tie wraps.
- The supplied aircraft cable is designed to prevent strain on the wire. An additional aircraft cable is required to hang string light.

WEIGHT PER FOOT

Series	Spacing Selection	Approximate Weight
ZOZO Standard (A5-ZOZO-STN)	12" on Center (12")	0.30 lbs per foot
	18" on Center (18")	0.24 lbs per foot
	24" on Center (24")	0.21 lbs per foot
	36" on Center (36")	0.18 lbs per foot
	48" on Center (48")	0.17 lbs per foot
	60" on Center (60")	0.16 lbs per foot

DEEP EXTRUSION + LED TAPELIGHT

TYPE T1



5 YEAR
LIMITED
WARRANTY

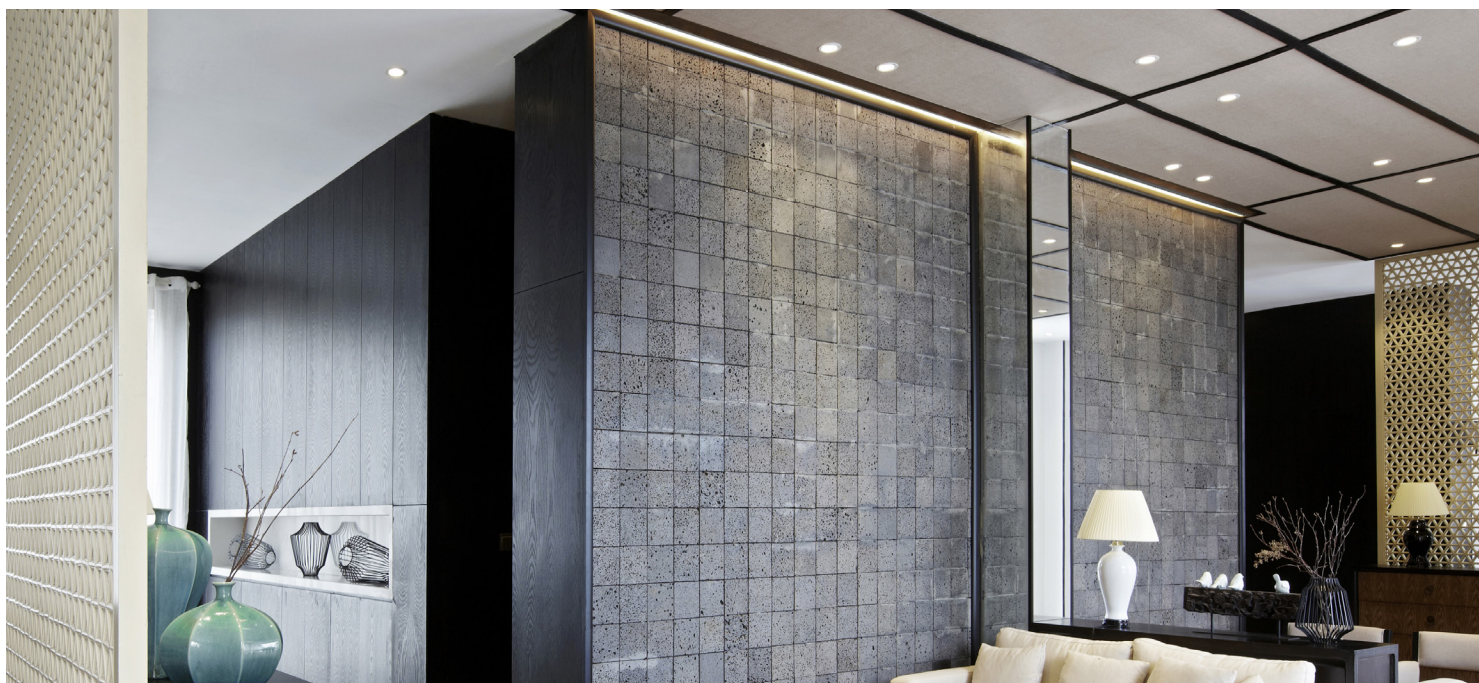


SPECIFICATIONS

FINISH	Silver Anodized, Black Powder Coat, White Powder Coat
LENS	Frosted, Clear, White, Black
WATTAGE	1.5W/ft to 7.6W/ft
IP RATING	IP20, IP65 - rating applies to tapelight, see page 2 for details
CCT / COLOR	2200K - 5200K; RGB; RGBW; tunable white; warm fade
BEAM SPREAD	105° typical with Frosted lens
INPUT VOLTAGE	24VDC
LENGTH	Made to order. Actual lengths vary by LED tapelight cut points. Maximum assembled length is 94in. Lengths over 94in are made with multiple sections, shipped unassembled.
OUTPUT	101 to 564 lm/ft
LEDS	Single binned LEDs +/- 30-70 CCT, MacAdam 3 SDCM
MATERIAL	Extrusion - Anodized aluminum; Lens - Polycarbonate
MOUNTING	Mounting clips recommended
POWER SUPPLY	Requires a 24V power supply - see page 5
WARRANTY	IP20 - 5 year limited, IP65 - 3 year limited

FEATURES & RECOMMENDED APPLICATIONS

Surface-mount extrusion with a deep profile that creates a smooth, diode-free line of light. Versatile and ideal for general lighting, under cabinet, accents, displays, shelving, and signage.



PRODUCT: LLI-DEP-SF-H4.4W-30K-24V-48IN

DEEP EXTRUSION + LED TAPELIGHT

ORDERING GUIDE

← PRODUCT CODE

PROFILE	1a. FINISH	1b. LENS	2. LED CODE	3. IP RATING*	4. CCT / COLOR	INPUT	5. LENGTH
LLI-DEP	S	F	2.2W	65	30K	24V	48IN
	Silver Black White	Frosted Clear White Black	WATTS/FT 1.5-7.6 W/ft	[blank] - IP20 65 - IP65	22K-52K Warm Fade Tunable White Static Color RGB RGBW		Enter overall length in inches. Length can be a complete section (if under max run) or separated into smaller sections. Nominal length only. Actual lengths vary by LED cut point.

Example product code: LLI-DEP-SF-4.4W-65-35K-24V-48IN

OPTIONAL CODE →

POWER FEED		
6. MOUNTING	7. LEAD TYPE	8. LEAD LENGTH
[blank]	[blank]	[blank]
Default [blank] - Ships standard with standard clips. Refer to section 6 on the next page if you require alternate mounting.	Default [blank] - 48" hard wire end feed (PWR48EF) Refer to section 7 on the next page for an alternate power feed configuration.	

More LED tapelight and color options available upon request. Visit www.llilighting.com or contact us for details.

1. FINISH & LENS

1a. FINISH	1b. LENS
S	F
S Silver Anodized finish	F Frosted lens
B Black Powder Coat finish	C Clear lens
W White Powder Coat finish	W White lens (special order)
	B* Black lens (special order)*

*80% light loss factor

2-4. LED TAPELIGHT OPTIONS

2. LED CODE	3. IP RATING*	4. CCT / COLOR
H4.4W	[blank]	30K

For IP20, leave [blank].

TECHNICAL DATA

	WATTAGE	DELIVERED LM/FT @ 30K*	FROSTED LENS APPEARANCE**	CRI	MAX. RUN	CUT POINTS*
1.5W (White)	1.5 W/ft	101 lm/ft	SEMI-UNIFORM	90+	60 ft*	3.9"
T1.5W (White)	1.5 W/ft	110 lm/ft	UNIFORM	90+	26 ft	1"
2.2W (White)	2.2 W/ft	135 lm/ft	SEMI-UNIFORM	90+	60 ft*	3.9"
★ 2.5W (White)	2.5 W/ft	134 lm/ft	UNIFORM	90+	32 ft	2"
T2.5W (White)	2.5 W/ft	144 lm/ft	UNIFORM	90+	20 ft	1"
3.5W (White)	3.5 W/ft	170 lm/ft	SEMI-UNIFORM	90+	40 ft	2.5"
♦ WF3.5W (Warm Fade)	3.5 W/ft	192 lm/ft	SEMI-UNIFORM	90+	16 ft	2.5"
TW2.7W (Tunable White)	2.7 W/ft	198 lm/ft	SEMI-UNIFORM	90+	26 ft	3.3"
★ 4.4W (White)	4.4 W/ft	207 lm/ft	UNIFORM	90+	32 ft	2"
H3.5W (White)	3.5 W/ft	257 lm/ft	UNIFORM	90+	16 ft	2.5"
T5.0W (White)	5.0 W/ft	278 lm/ft	UNIFORM	90+	13 ft	1"
★ H4.4W (White)	4.4 W/ft	331 lm/ft	UNIFORM	90+	32 ft	2"
★ R5.4W (White, High R9)	5.4 W/ft	331 lm/ft	UNIFORM	95+	16 ft	1"
TW5.3W (Tunable White)	5.3 W/ft	346 lm/ft	SEMI-UNIFORM	90+	16 ft	3.3"
H5.9W (White)	5.9 W/ft	485 lm/ft	UNIFORM	90+	32 ft	2.8"
★ T5.9W (White)	5.9 W/ft	564 lm/ft	UNIFORM	90+	20 ft	2"
C2.2W (Static Color)	2.2 W/ft	N/A	SEMI-UNIFORM	—	60 ft	3.9"
C4.4W (Static Color)	4.4 W/ft	N/A	UNIFORM	—	32 ft	2"
CC4.4W (RGB)	4.4 W/ft	75 lm/ft	SEMI-UNIFORM	—	32 ft	3.9"
TC4.4W (RGB)	4.4 W/ft	109 lm/ft	UNIFORM	—	16 ft	2"
★ CC5.9W (RGB)	5.9 W/ft	202 lm/ft	UNIFORM	—	32 ft	2.8"
CW5.8W (RGBW)	5.8 W/ft	182 lm/ft	SEMI-UNIFORM	80+	32 ft	3.9"
CW7.0W (RGBW)	7.0 W/ft	211 lm/ft	SEMI-UNIFORM	90+	28 ft	2.5"
★ CW7.6W (RGBW)	7.6 W/ft	222 lm/ft	SEMI-UNIFORM	90+	16 ft	2.5"

* 1.5W and 2.2W IP65 tapelight maximum run is reduced to 50 ft, only IP20 may reach maximum run of 60 ft.

★ Recommended options.


♦ Warm Fade tapelight requires a UDEFF or 0-10V dimmable power supply.

** Diode visibility data tested at 100% output. Diodes may become more visible as tapelight dims.

^ Lumen data based on frosted lens, IP20 tapelight, 30K white output, or combined output for tunable white, warm fade, RGB, and RGB(W) tapelights.

* Protection varies according to IP Rating. See below or refer to llilighting.com/resources for more information.

 IP20, uncoated - Dry Location

 IP65, silicone covered - Wet Location - Limited protection from water ingress. Not suitable for applications that may see pooling or standing water conditions. Not suitable for submersion.



DEEP EXTRUSION + LED TAPELIGHT

ORDERING GUIDE

5. LENGTH

5.
LENGTH
48IN

Enter overall extrusion length in inches. Maximum assembled length is 94in. Lengths over 94in are made with multiple sections, shipped unassembled. Overall Extrusion+LED tapelight length will be rounded down based on nearest LED tapelight cut point.

6. MOUNTING (OPTIONAL)

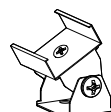
6.
MOUNTING
[blank]
Default [blank] - Standard Clip
ADJ Adjustable Clip

STANDARD MOUNTING CLIP
INCLUDED



0.70" W x 0.68" H x 0.56" L

ADJUSTABLE MOUNTING CLIP



0.67" W x 0.9" H x 0.67" L

7-9. POWER FEED (OPTIONAL)

7. LEAD TYPE [blank] 8. LEAD LENGTH [blank] 9. FEED TYPE [blank]

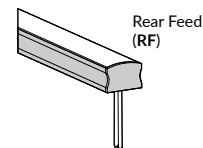
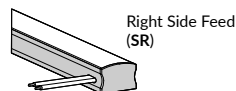
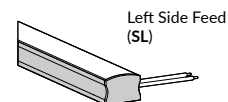
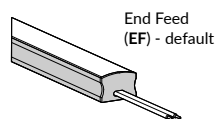
Default [blank] - 48" hard wire end feed (PWR48EF)

PWR Hard wire
MBC* Male barrel
FBC* Female barrel

Enter desired wire length in inches.

EF End Feed
RF Rear Feed
SR Right Side Feed
SL Left Side Feed

STANDARD 48" HARD WIRE END FEED INCLUDED
UNLESS OTHERWISE SPECIFIED



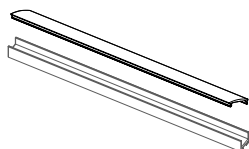
Hard wire, no connector -
default (PWR)

Male barrel connector
(MBC)*

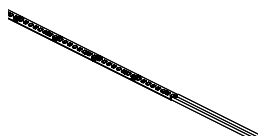
Female barrel connector
(FBC)*

*Barrel connectors not compatible with RGB, RGB(W),
or Tunable White tapelights.

WHAT'S INCLUDED



EXTRUSION WITH LENS



LED TAPELIGHT WITH
POWER FEED



ENDCAPS



MOUNTING CLIP

DEEP EXTRUSION + LED TAPELIGHT

LUMEN OUTPUT MULTIPLIERS (FOR ESTIMATING DELIVERED LUMENS, FROSTED LENS ONLY)

COLOR TEMPERATURE	LUMEN MULTIPLIER
2200K	0.8
2700K	0.9
3000K	1
3500K	1.1
4200K	1.2
5200K	1.25

IP RATING	LUMEN MULTIPLIER
IP20	1
IP65	0.9


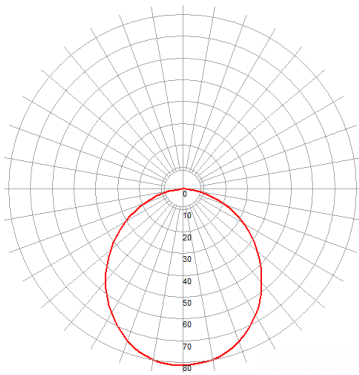
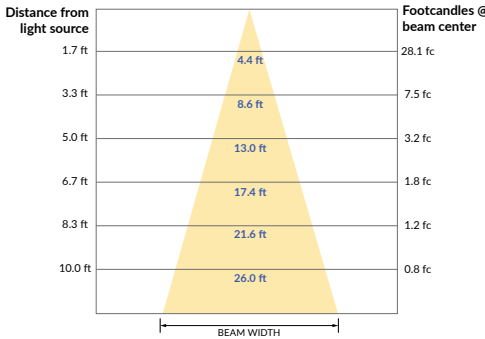
FINISH	LUMEN MULTIPLIER
Silver Anodized	1
Black Anodized	0.9
White Powder Coat	1.1

EXAMPLE: White Powder Coat Extrusion, 2.2W, IP65, 5200K

(Output @ 30K) x (Color temperature lumen multiplier) x (IP rating lumen multiplier) x (Finish lumen multiplier) = Estimated delivered lm/ft

135 lm/ft	x	1.25	x	0.9	x	1.1	=	167 lm/ft
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PHOTOMETRY

LLI-DEP-SF-4.4W-30K-24V*		BEAM SPREAD	POLAR CHART	CONICAL CHART
POWER (W/ft)	4.4W	105° 		ILLUMINANCE AT A DISTANCE 
OUTPUT (lm/ft)	207 lm/ft			
COLOR TEMPERATURE	3000K			
BEAM SPREAD	105°			
EFFICACY (lm/W)	47 lm/W			

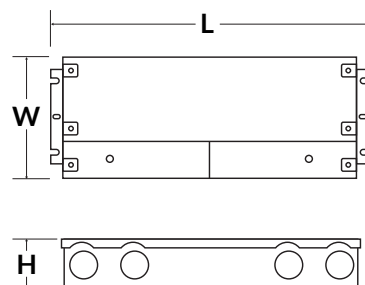
*Information for other options available upon request. IES files for extrusion+tapelight available upon request.

DIMMABLE ELECTRONIC 0-10V

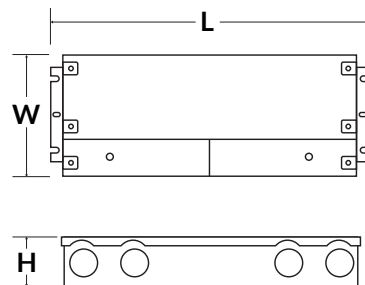
Optimal performance dims to 0%.*



PART NUMBER	CAPACITY	INPUT	OUTPUT	CLASS	LOCATION	L	W	H
LLI-PS-DE010-030W-24V-KO	30W	120V or 277V	24V	CLASS 2	IP66 WET	6.5"	3.6"	1.6"
LLI-PS-DE010-060W-24V-KO	60W	120V or 277V	24V	CLASS 2	IP66 WET	7.4"	3.6"	1.6"
LLI-PS-DE010-096W-24V-KO	96W	120V or 277V	24V	CLASS 2	IP66 WET	8.7"	3.7"	1.7"
LLI-PS-DE010-200W-24V-KO	200W	120V or 277V	24V	CLASS 1	IP66 WET	10.2"	4.1"	1.8"
LLI-PS-DE010-300W-24V-KO	300W	120V or 277V	24V	CLASS 1	IP66 WET	10.9"	4.3"	1.8"


NON-DIMMABLE ELECTRONIC

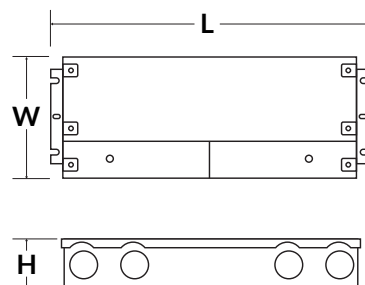

PART NUMBER	CAPACITY	INPUT	OUTPUT	CLASS	LOCATION	L	W	H
LLI-PS-NDE-030W-24V-KO	30W	100-277V	24V	CLASS 2	IP66 WET	6.5"	3.5"	1.02"
LLI-PS-NDE-060W-24V-KO	60W	100-277V	24V	CLASS 2	IP66 WET	7.4"	3.5"	1.2"
LLI-PS-NDE-096W-24V-KO	96W	100-277V	24V	CLASS 2	IP66 WET	8.7"	3.7"	1.7"
LLI-PS-NDE-200W-24V-KO	200W	100-277V	24V	CLASS 1	IP66 WET	10.3"	4.1"	1.8"
LLI-PS-NDE-300W-24V-KO	300W	100-277V	24V	CLASS 1	IP66 WET	10.9"	4.3"	1.8"


DIMMABLE ELECTRONIC FLICKER-FREE

Optimal performance dims to 2-5%.



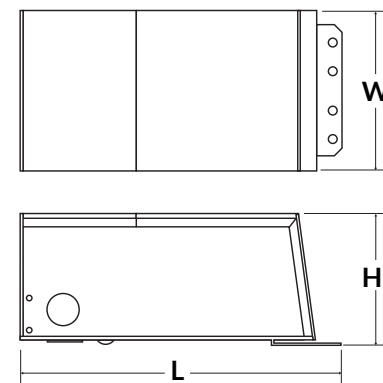
PART NUMBER	CAPACITY	INPUT	OUTPUT	CLASS	LOCATION	L	W	H
LLI-PS-UDEFF-030W-24V-KO	30W	110-277V	24V	CLASS 2	IP66 WET	6.5"	3.6"	1.0"
LLI-PS-UDEFF-060W-24V-KO	60W	110-277V	24V	CLASS 2	IP66 WET	7.4"	3.6"	1.0"
LLI-PS-UDEFF-096W-24V-KO	96W	110-277V	24V	CLASS 2	IP66 WET	8.7"	3.7"	1.6"
LLI-PS-UDEFF-200W-24V-KO	200W	110-277V	24V	CLASS 1	IP66 WET	10.2"	4.1"	1.8"
LLI-PS-UDEFF-300W-24V-KO	300W	110-277V	24V	CLASS 1	IP66 WET	11.0"	4.3"	1.8"


DIMMABLE MAGNETIC

Optimal performance dims to 5-10%.*



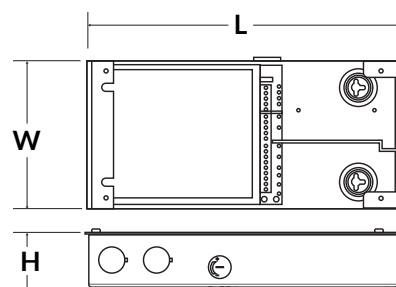
PART NUMBER	CAPACITY	INPUT	OUTPUT	CLASS	LOCATION	L	W	H
LLI-PS-DM-020W-24V-KO	20W	120V or 277V	24V	CLASS 2	NEMA 3R WET	7.38"	2.11"	1.60"
LLI-PS-DM-040W-24V-KO	40W	120V or 277V	24V	CLASS 2	NEMA 3R WET	7.38"	2.11"	1.60"
LLI-PS-DM-060W-24V-KO	60W	120V or 277V	24V	CLASS 2	NEMA 3R WET	8.13"	3.93"	1.59"
LLI-PS-DM-100W-24V-KO	100W	120V or 277V	24V	CLASS 2	NEMA 3R WET	8.13"	3.93"	1.59"
LLI-PS-DM-150W-24V-KO	150W	120V or 277V	24V	CLASS 1	NEMA 3R WET	8.79"	4.15"	3.41"
LLI-PS-DM-200W-24V-KO	200W	120V or 277V	24V	CLASS 1	NEMA 3R WET	8.79"	4.15"	3.41"
LLI-PS-DM-300W-24V-KO	300W	120V or 277V	24V	CLASS 1	NEMA 3R WET	8.79"	4.15"	3.41"
LLI-PS-DM-300W-24V-CL2-KO	6 x 50W	120V or 277V	24V	CLASS 2	NEMA 3R WET	10.29"	5.69"	3.43"
LLI-PS-DM-600W-24V-KO	2 x 300W	120V or 277V	24V	CLASS 1	NEMA 3R WET	10.29"	6.79"	4.68"


LUTRON HI-LUME PREMIER 0.1% DIMMABLE ELECTRONIC

Soft-on, Fade-to-Black, continuous flicker-free dimming from 100% to 0.1.



PART NUMBER	CAPACITY	INPUT	OUTPUT	CLASS	LOCATION	L	W	H
L3D0-96W24V-U	96W	120-277V	24V	CLASS 2	IP20 DRY	10.5"	5.5"	2.0"



*Performance can be affected by driver loading and dimmer type.

CONTROLS (SOLD SEPARATELY)

CONTROLS OPTIONS
<p>Click here or visit www.llialighting.com/C/23/controls for a summary of available options:</p> <ul style="list-style-type: none">• RF Decoders• RF Controls• DMX Decoders• DMX Controls