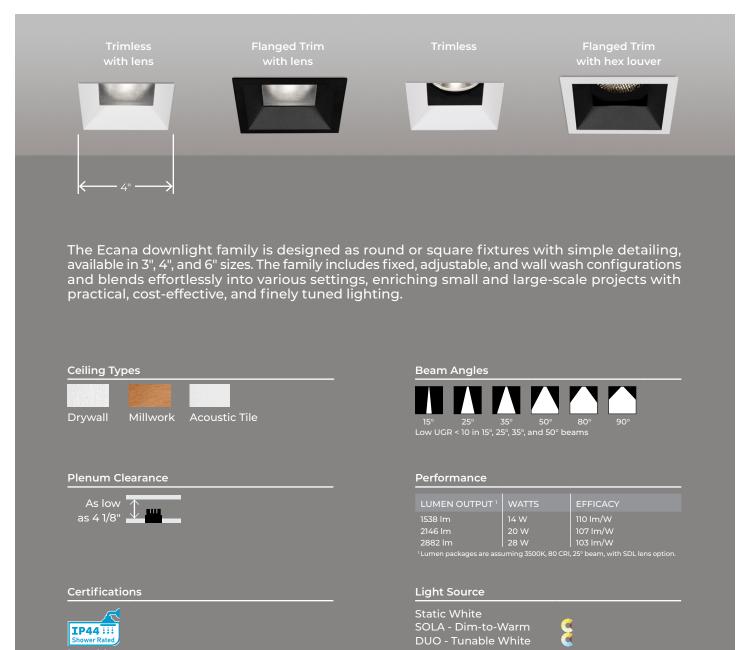


SQUARE RECESSED





Ecana Family (Refer to other spec sheets)







Round / Square



Recessed Wall Wash

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Project:			
Type:			

Order Guide

1 - Housing (Example: EC4SR-TRM-SW-OF-ASB-120V-14W-D1-NA)

LUMINAIRE ID 1	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTION 4
EC4SR				
EC4SR - Ecana 4" Square Recessed Recessed Adjustable and Recessed Wall Wash also available. Consult other spec sheets.	TRM - Flanged trim TLMP - Trimless drywall mudplate TLMW ² - Trimless millwork ² For remodel (RM) installation type, TLMW adapter must be installed from above the ceiling or before ceiling is installed.	SOLA - Dim-to-warm single channel control DUO - Tunable white 2-channel control	OF - Open Frame Type Non-IC IC 3 - Type-IC RM - Remodel Type Non-IC CP 3 - Chicago Plenum Type-IC (CCEA) AT 3 - Airtight Type-IC 3 Not available with 20 W output and higher.	ASB ⁵ - Adjustable standard bar hangers FMB ⁵ - Flush mount bars ACB ⁵ - Adjustable commercial bar hangers AHC ⁵ - Adjustable hat channel bars NA - None ⁴ See page 4 for more details. ⁵ Not available with RM installation type.
VOLTAGE WATTAGE	DIMMING 10			OPTION

VOLTAGE	WATTAGE	DIMMING [™]				OPTION
120V - 120V - 277V - 2777V - 2777V - 120V-2777V - 347V 6 - 347V 6 - 347V 10 - 6 Available with RD1 driver only. Please consult factory.	14W 7 - 14 W output, up to 1538 lm 20W 8.9 - 20 W output, up to 2146 lm 28W 8.9 - 28 W output, up to 2822 lm 7 Not available with 95 CRI when specified with IC/CP/AT. 8 Not available with 95 CRI when specified with IC/CP/AT. SOLA 9 28W - 28 W output,	PEQ0 13, 14, 15 - Lutro DEB 15 - 0-10V with	% ECOdrive 0-10V D.1% SOLOdrive 0-10V In Hi-lume Premier 0.1% EcoSystem onboard emergency battery backup ernet) compatible. Consult factory for details. In installation type. In isstallation type. In g is required.	+EB ²⁰ - Emergency ¹⁶ A remote driver box is 1 ¹⁷ Available with 120V onl ¹⁹ On-site commissioning ¹⁹ Not available with 28 V	ECOdrive 0-10V 1% SOLOdrive 0-10V Hi-lume Premier 0.1% EcoSystem battery provided, see page 3 for details. y. g is required.	PMP ²¹ - Pre-mounting plate NA - None ²¹ Available with RM installation type only.
	up to 1945 lm DUO ⁹ 28W - 28 W output, up to 2055 lm	SOLA SDI - Single 0-10V input SELV" - ELV 120V STRI" - TRIAC 120V	DUO DMX ¹³ - DMX DDA ¹³ - DALI DT6 DDA8 ¹³ - DALI DT8 DD1 - Dual 0-10V input for CCT/intensity PSQ0 ¹³ - Lutron T-Series 1% tunable white	SOLA RSD1 - Single 0-10V input RSELV ** - ELV 120V RSTR1 ** - TRIAC 120V	DUO RDMX ¹⁸ - DMX RDDA ¹⁸ - DALI DT6 RDDA8 ¹⁸ - DALI DT8 RDD1 - Dual 0-10V input for CCT/intensity RPSQ0 ¹⁸ - Lutron T-Series 1% tunable white	

2 - Light	. & Baffle (Exi	ample	e: EC4SRB-SW-14W-	25DE	G-2STP-90CRI	-27K-LSD	L+LS-TRM-(CL-F	TMW-FTMW-N	VA)	
LUMINAIRE ID	LIGHT SOURCE Specify same as Housing	WAT Specify	TAGE same as Housing		BEAM		COLOR QUA	LITY	CRI	COLO	R ТЕМР.
EC4SRB											
EC4SRB - Ecana 4" Square Recessed	SW - Static white	20W ² 28W ² ²² Not a with I ²³ Not a with I	2 - 14 W output, up to 1538 3.24 - 20 W output, up to 2 3.24 - 28 W output, up to 2 vailable with 95 CRI when spec C/CP/AT. vailable with 95 CRI when spec NAME of the s	146 lm 382 lm ified	15DEG - 15° Narro 25DEG - 25° Spot 35DEG - 35° Narro 50DEG - 50° Wid 80DEG - 80° Very 90DEG - 90° Ope	2STP - 2 Step MacAdam Ellipse 3STP - 3 Step MacAdam Ellipse		90CRI - 90 CRI 95CRI - 95 CRI 80CRI - 80 CRI	27K - 2 30K - 3 35K - 3 40K - 4	3000K 3500K	
	SOLA - Dim-to-warm single channel control DUO - Tunable white 2-channel control	DUO 2	28 W output, up to 1945 I	25DEG - 25° Spot 35DEG - 35° Narrow flood 60DEG - 60° Wide flood 80DEG - 80° Very wide flood 90DEG - 90° Open flood		3STP - 3 Step MacAdam Ellipse		90CRI - 90 CRI	SOLA 30K18K - 3000K to 180 27K18K - 2700K to 180 DUO 65K27K - 6500K to 27 50K27K - 5000K to 27		
ACCESSORIES * See page 5 for detai			TRIM STYLE Specify same as Housing		LENS * BAFFLI See page 5 for details				TRIM FLANGE FINISH Specify NA for Trimless		OPTION
(choose up to 2 option LSDL - Soft diffus LFDL - Frosted di LS - Linear spreach HEX 27 - Hex louve NA - None 25 If two options are spreach	HEX ²⁷ - Hex louver		drywall mudplate TLMW ²⁸ - Trimless millwork ²⁸ For remodel (RM) installation type, TLMW CL - C		Soft diffused lens, black white FTMB - Te		extured matte extured matte tom finish, LL#	FTM CF# RAL	IW - Textured matt IB - Textured matte - Custom finish, s _i # - Not applicable	e black	WET ²⁹ - Wet location NA - None ²⁹ Must be specified with the flanged trim (FRM), and either SDL, FDL, or CL lens options

^{*} LSDL or LFDL at light element cannot be combined with SDL or FDL at baffle.

e.g. LSDL+LS. ²⁶ LSDL and LFDL cannot be combined. LS and HEX cannot be combined.

27 Not available with 80°/90° beam options.



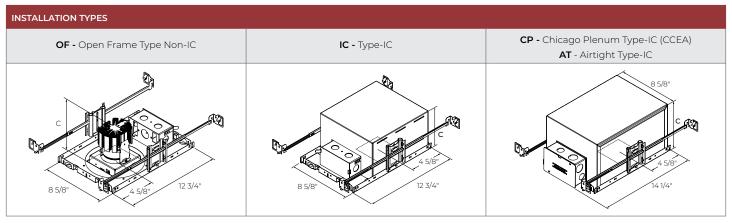


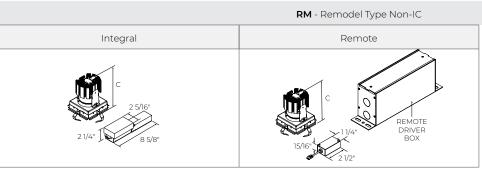
from above the ceiling or before ceiling is installed.

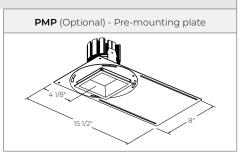


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Housing



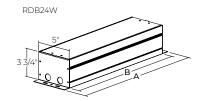




- For height dimension C, see the PLENUM CLEARANCE & CUT-OUT DIMENSIONS table below.
- For OF, IC, CP, and AT installation types with remote dimming, a remote driver box is provided.

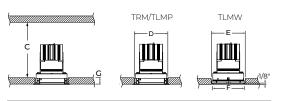
REMOTE DRIVER BOX

RDB8/RDB18/RDB24



	RDB8	RDB18	RDB24	RDB24W
Α	10"	20"	26"	26"
В	8"	18"	24"	24"
DRIVER	RDI - 1% 0-10V RELV - ELV 120V RTRI - TRIAC 120V RPEQO - Lutron Hi-lume Premier 0.1% EcoSystem	RLDE1 - Lutron Hi-lume 1% Eco RDA - DALI RELD1 - eldoLED 1% ECOdrive 0-10V RELD0 - eldoLED 0.1% SOLOdrive 0-10V	Emergency battery (+EB) with the following driver options. RD1+EB - 1% 0-10V RELV+EB - ELV 120V RTR1+EB - TRIAC 120V RPEQ0+EB - Lutron Hi-lume Premier 0.1% EcoSytem	Emergency battery (+EB) with the following driver options. RLDE1+EB - Lutron Hi- lume 1% Eco RDA+EB - DALI RELD1+EB - eldoLED 1% ECOdrive 0-10V RELD0+EB - eldoLED
	SOLA RSDI - Single 0-10V input RSELV - ELV 120V RSTRI - TRIAC 120V		DUO RDMX - DMX RDDA - DALI DT6 RDDA8 - DALI DT8 RDD1 - Dual 0-10V input for CCT/intensity RPSQ0 - Lutron T-Series 1% tunable white	0.1% SOLOdrive 0-10V

PLENUM CLEARANCE & CUT-OUT DIMENSIONS



		PLENUM CLEARANCE HEIGHT
		REMOTE & INTEGRAL
	OF	4 1/8" (14 W/20 W) 5 1/2" (28 W)
c	IC	6 1/2"
-	CP/AT	7"
	RM	4 1/8" (14 W/20 W) 5 1/2" (28 W)

		CUT-OUT DIMENSIONS
D	TRM/TLMP	4 1/2" x 4 1/2"
E	71.54547	4 1/2" x 4 1/2"
F	TLMW	4 1/16" x 4 1/16" with 1/8" lip

		MAXIMUM CEILING THICKNESS
	TRM/TLMP	13/8"
G	TLMW	5/8"



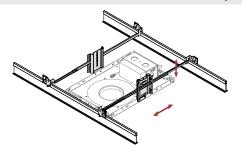


Housing

MOUNTING OPTIONS

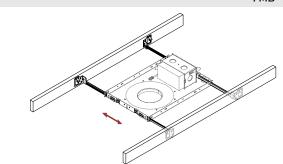
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ASB - Adjustable Standard Bar Hangers



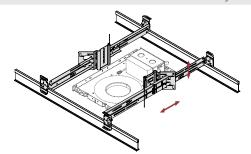
Adjustable Standard Bar hangers can be used in both commercial and residential applications and are adjustable to various heights in both Grid Ceiling and Drywall mounting. ASB hangers are less rigid and versatile than ACB hangers.

FMB - Flush Mount Bars



Flush Mount Bars are best used in residential applications, fitting snug to the surface and suitable for Wood, Metal, and Drywall mounting. The flush mounted bars are static and can't be adjusted.

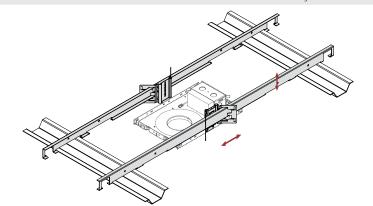
ACB - Adjustable Commercial Bar Hangers



Adjustable Commercial Bar hangers can be used in both commercial and residential applications and are by far the most versatile mounting bar we offer with its adjustability to various heights. ACB hangers are suitable for Grid Ceiling, Drywall, Metal, Wood and Frame mounting.

- · Extremely rigid
- · Fits into C-Channel notches in a Butterfly Bracket

AHC - Adjustable Hat Channel Bars



Adjustable Hat Channel bars can be used in both commercial and residential applications and come with a butterfly clip to adjust to various heights. AHC bars can be hung downward by 90 degrees in vertical position, and once wired, can be shifted onto the horizontal mounting plane. AHC bars are suitable for both Drywall and wood ceiling applications.





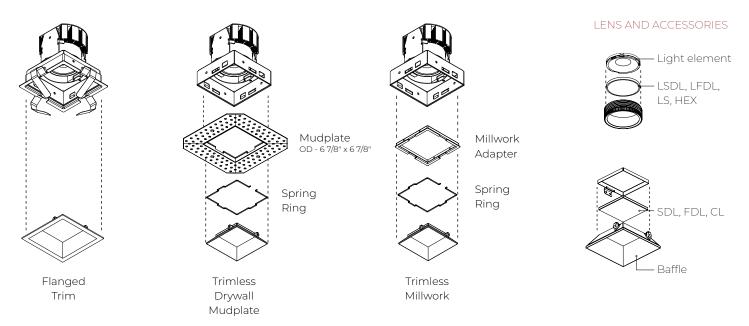


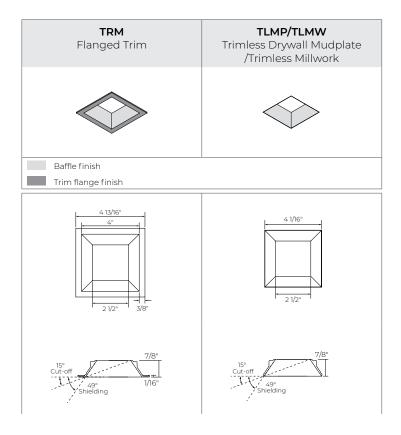
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Light & Baffle



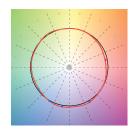


ECANA 4" DOWNLIGHT **Z**Lumenwerx SQUARE RECESSED



Color Quality

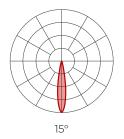
COLOR QUALITY - 3500K TM-30 Rf 92 TM-30 R_a 100 90 R9 > 50

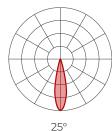


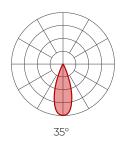
Photometrics

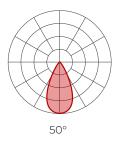
STATIC WHITE

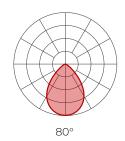
Values calculated based on 3500K, bevel baffle, and SDL lens option.

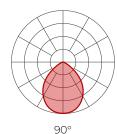












Delivered lumens

CRI	90 CRI						95 CRI						80 CRI					
BEAM	15°	25°	35°	50°	80°	90°	15°	25°	35°	50°	80°	90°	15°	25°	35°	50°	80°	90°
14 W	1399	1437	1384	1356	1220	1220	1077	1106	1066	1044	940	940	1497	1538	1481	1451	1306	1306
20 W	1952	2006	1931	1893	1704	1704	1503	1545	1487	1458	1312	1312	2089	2146	2066	2026	1823	1823
28 W	2621	2693	2593	2541	2287	2287	2018	2074	1997	1957	1761	1761	2804	2882	2775	2719	2447	2447

Efficacy

2																				
CRI	90 CRI							95 CRI							80 CRI					
BEAM	15°	25°	35°	50°	80°	90°	15°	25°	35°	50°	80°	90°	15°	25°	35°	50°	80°	90°		
14 W	100	103	99	97	87	87	77	79	76	75	67	67	107	110	106	104	93	93		
20 W	98	100	97	95	85	85	75	77	74	73	66	66	104	107	103	101	91	91		
28 W	94	96	93	91	82	82	72	74	71	70	63	63	100	103	99	97	87	87		

Please follow the multiplier tables to ensure correct lumen value. Beams, CCT, baffle colors, lensing and accessories will change the lumen value.

сст		TRIM STYLE AND	BAFFLE FINISH	LENS* (At baffle)		ACCESSORIES * (At light element)			
2700K	0.9	Flanged trim	1	SDL - Soft diffused lens, Solite	1	LSDL - Soft diffused lens, Solite	1		
3000K	0.95	Trimless	1	FDL - Frosted lens	0.8	LFDL - Frosted lens	0.8		
3500K	1	White	1	CL - Clear lens	1.1	LS - Linear spread	0.84		
4000K	1.05	Black	1	NOL - No lens	1.1	Hex louver	0.86		

^{*} When more than one lens or accessory is specified, multiply together the value of each lens and/or accessory. e.g. NOL + LSDL + LS = 1.1 x 1 x 0.84 = 0.924



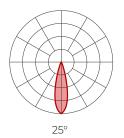
ECANA 4" DOWNLIGHT **Z** Lumenwerx SQUARE RECESSED

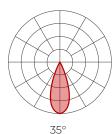


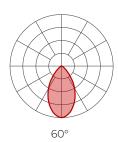
Photometrics

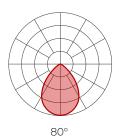
SOLA/DUO

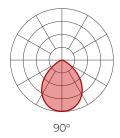
Values calculated based on bevel baffle and SDL lens option.











SOLA

ВЕАМ		2	5°	s° 35°		6	0°	8	0°	90°		
		lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W	
28 W	3000K	1920	69	1945	69	1850	66	1590	57	1460	52	
20 VV	2700K	1920	69	1945	69	1850	66	1590	57	1460	52	

DUO

BEAM	АМ		25°		35°		60°		80°		90°	
		lm	lm/W									
	6500K	2005	72	2055	73	1980	71	1700	61	1565	56	
28 W	5000K	2005	72	2055	73	1980	71	1700	61	1565	56	
	2700K	1780	64	1820	65	1740	62	1495	53	1375	49	

Please follow the multiplier tables to ensure correct lumen value. Beams, CCT, baffle colors, lensing and accessories will change the lumen value.

TRIM STYLE AND BAFFLE FINISH					
Flanged trim	1				
Trimless	1				
White	1				
Black	1				

LENS * (At baffle)	
SDL - Soft diffused lens, Sol	lite 1
FDL - Frosted lens	0.8
CL - Clear lens	1.1
NOL - No lens	1.1

ACCESSORIES * (At light element)				
LSDL - Soft diffused lens, Solite	1			
LFDL - Frosted lens	0.8			
LS - Linear spread	0.84			
Hex louver	0.86			

^{*} When more than one lens or accessory is specified, multiply together the value of each lens and/or accessory. e.g. NOL + LSDL = 1.1 x 1 = 1.1



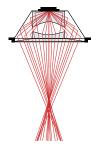
ECANA 4" DOWNLIGHT **Z** Lumenwerx SOUARE RECESSED



Technical Specifications

OPTIC

XPoint™ Refraction Technology optics provide precise optical control in a remarkably compact form. Micro optical paths from the chip on board converge and then disperse in precise beam angles, resulting in a crisp and exacting light quality.



Static white

Compact COB (Chip-On-Board) LED module, available in 2700K, 3000K, 3500K and 4000K with a choice of 80 CRI, 90 CRI, or 95 CRI, with elevated R9 value for 90 CRI and above. Color consistency is maintained to within 2 SDCM. 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. Optional full spectrum LEDs can be incorporated in the fixture to increase Cyanosis Observation Index (COI) and assist in regulating circadian rhythms.

Chromawerx SOLA

Chromawerx SOLA is single-channel control that dims output while warming the color temperature in a pre-determined relationship. Two color temperature range options are offered: 3000K to 1800K, and 2700K to 1800K. A simple analog control adjusts a specially populated LED array to emulate the effect of dimming a filament source.

Chromawerx DUO

Chromawerx DUO offers a two-channel control system which uses analog or digital protocols for synchronous control of both cool to warm LED arrays - maintaining a CRI above 90. Two color temperature range options are offered: 6500K to 2700K, and 5000K to 2700K. The range of color DUO offers is useful for entraining circadian rhythms, stimulating alertness, and compensating for jet lag among other applications. The Chromawerx drivers are programmed to limit maximum light output and power usage across all color temperatures. When paired with DALI drivers (DDA/DDA8), color tuning follows a linear dimming curve.

FL FCTRICAL

Unless otherwise specified, dimming down to 1%. At maximum driver load: efficiency>84%, PF>0.9, THD<20%.

Integral: 0-10V, ELV, TRIAC, Lutron Hi-Lume 1% EcoSystem, DALI, eldoLED 0.1% SOLOdrive 0-10V, eldoLED 1% ECOdrive 0-10V, DMX, Lutron T-series (tunable white)

Remote: 0-10V, ELV, TRIAC, Lutron Hi-Lume 1% EcoSystem, DALI, eldoLED 0.1% SOLOdrive 0-10V, eldoLED 1% ECOdrive 0-10V, DMX, Lutron T-series (tunable white)

Emergency battery options - Integral: Factory installed, long-life, high-temperature, LED driver with integrated emergency backup using a recyclable LiFePO4 battery pack. Features a remote test switch with charge indicator, minimum of 90 minutes operation and 10 W per downlight emergency lighting output. Recharge time of 12 hours.

Emergency battery options - Remote: Remotely-installed, longlife, high-temperature, maintenance-free, Bodine Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. IOTA and Fulham options available upon request. Minimum of 90 minutes operation, and recharge time of 24 hours. For fixtures less than 10 W, the battery provides 6 W of emergency light output. For fixtures 10 W and over, the battery provides 10 W.

PoE

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



ECANA 4" DOWNLIGHT **Z** Lumenwerx SOUARE RECESSED



CONSTRUCTION

Housing

For new construction, 20 gauge powder coated steel. Open frame, type-IC, or Chicago Plenum (CCEA) rated. 18 gauge galvanized steel junction box with ½" trade size knockouts. Adjustable hanger bars and butterfly brackets are included. Hat channel and flush mounted brackets are also available.

Light element

LED module: Integral COB module. 90 CRI and 2 SDCM, Standard with options of 80 CRI, or 95 CRI. L80 > 60,000 hours.

 $\textbf{XPoint}^{\intercal}\textbf{M} \ \textbf{Refraction Technology optic} : \ \textbf{Micro optical paths from}$ the chip on board converge and then disperse in precise beam angles, resulting in a crisp and exacting light quality.

Thermal management: Die-cast aluminum heat sink to maximize thermal dissipation.

Baffle: Die-cast aluminum mounted with retaining spring clips Trim style: Trimmed and trimless with mudplate or millwork adapter

WEIGHT

Open frame: 4.5 lbs - 2 kg

Type-IC/Chicago Plenum: 8 lbs - 3.6 kg

Remodel: 3.5 lbs - 1.6 kg

LENS AND ACCESSORIES



Soft diffused lens. Solite



Frosted diffused lens



Clear lens



Linear spread



Hex louver

ENVIRONMENT

Ambient temperature at fixture location shall be within 0°C/32°F - 25°C/77°F, indoor dry or damp as well as outdoor damp use (canopies or marquees).

CERTIFICATIONS

ETL: Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0. IP44: IP44 rated for bathrooms, showers, outdoor canopies, and marquees when specified with the wet location (WET) option. Chicago Plenum: City of Chicago approved (CCEA) when specified with CP installation type option.

IC rated: Suitable for direct contact with insulation when specified with IC, CP or AT installation type options.

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.

