AERA 2" DEEP DOWNLIGHT
ROUND RECESSED

Lumenwerx

5 YEAR WARRANTY
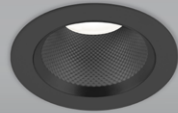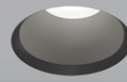

Aera Deep Prism Trimless
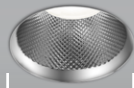
Aera Deep Prism Flanged Trim

Aera Deep Smooth Trimless
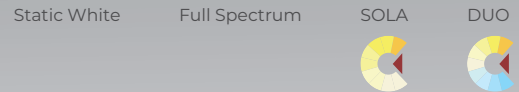
Aera Deep Smooth Flanged Trim

2"

Aera Deep luminaires introduce a unique deep baffle feature to the Aera family, available with a prism or smooth texture. This depth allows for an exceptionally low glare quality of light and a visually quiet ceiling. Aera Deep comes in square or round models and 2" or 3" apertures. The high-performance family displays a precise coupling of optic and trim and can be installed as IC-rated, non-IC-rated, or Chicago Plenum-rated types.

Baffle Finish

Matte White | Matte Black | Matte Silver | Precision Specular

Beam Angles

15°   25°   35°   50°

Low UGR < 10 in 15°, 25°, 35°, and 50° beams

Light Source

Static White	Full Spectrum	SOLA	DUO

Performance

LUMEN OUTPUT [1]	WATTS	EFFICACY
714 lm	7 W	102 lm/W
961 lm	10 W	96 lm/W

[1] Lumen packages are assuming 3500K, 80 CRI, 25° beam, with LSDL lens option.

Ceiling Types

Drywall | Millwork | Acoustic Tile

Plenum Clearance

As low as 3 3/8"
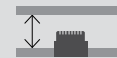
Aera Downlight Family (Refer to other spec sheets)

Downlight

2" / 3" / 4"	2" / 3" / 4"	2" / 3" / 4"
Round / Square	Round / Square	Round / Square
Recessed Adjustable	Recessed	Recessed Wall Wash

Deep

2" / 3"
Round / Square
Recessed

Multi-aperture

2" / 3" / 4"	2" / 3" / 4"	2" / 3" / 4"
Round / Square	Round / Square	Round / Square
Recessed Adjustable	Recessed	Recessed Wall Wash

www.lumenwerx.com
T (514) 225-4304

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AERA2-DEEP-DOWNLIGHT-ROUND-RECESSED-SPEC-REV1   May 23, 2024

PoE

AERA 2" DEEP DOWNLIGHT
ROUND RECESSED

Lumenwerx

Project: _____

_____

Type: _____

Order Guide
1 - Housing (Example: AE2DRR-TRM-SW-OF-ASB-120V-7W-D1)

LUMINAIRE ID [1]	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTION [4]
AE2DRR - Aera 2" Deep Round Recessed [1] Square recessed 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.	**SW** - Static white **FS** - Full spectrum **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 8 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 [7]	DIMMING [9]		
120V - 120V **277V** - 277V **UNV** - 120V-277V **347V** [6] - 347V [6] Available with RD1 driver only. Please consult factory.	**7W** - 7 W output, up to 714 lm **10W** [8] - 10 W output, up to 961 lm [7] Lumen outputs are reduced with full spectrum, consult factory. [8] Not available with IC/CP/AT.	**INTEGRAL** **D1** - 1% 0-10V **ELV** [10] - ELV 120V **TRI** [10] - TRIAC 120V [9] PoE (Power-over-Ethernet) compatible. Consult factory for details. [10] Available with 120V only.	**REMOTE** [11] **RD1** - 1% 0-10V **RELV** [12] - ELV 120V **RTRI** [12] - TRIAC 120V **RLDE1** [13] - Lutron Hi-lume 1% Eco [11] A remote driver box is provided, see page 3 for details. [12] Available with 120V only. [13] On-site commissioning is required. [14] For emergency battery, code will be like the following example: RD1+EB	**RDA** [13] - DALI **RELD1** - eldoLED 1% ECOdrive 0-10V **RELD0** - eldoLED 0.1% SOLOdrive 0-10V **+EB** [14] - Emergency battery
	SOLA [8] **10W** - 10 W output, up to 525 lm DUO [8] **8W** - 8 W output, up to 500 lm	SOLA **SD1** - Single 0-10V input **SELV** [10] - ELV 120V **STRI** [10] - TRIAC 120V	SOLA **RSD1** - Single 0-10V input **RSELV** [12] - ELV 120V **RSTRI** [12] - TRIAC 120V	DUO **RDMX** [13] - DMX **RDDA** [13] - DALI DT6 **RDDA8** [13] - DALI DT8 **RDD1** - Dual 0-10V input for CCT/intensity **RLD2** [13] - Lutron DALI-2 digital

2 - Light & Baffle (Example: AE2DPPRRB-SW-7W-15DEG-2STP-90CRI-27K-LSDL-TRM-FMWH-FMWH)

LUMINAIRE ID	LIGHT SOURCE Specify same as Housing	WATTAGE [15] Specify same as Housing	BEAM	COLOR QUALITY	CRI
AE2DPRRB - Aera 2" Deep Prism Round Recessed **AE2DSRRB** - Aera 2" Deep Smooth Round Recessed	**SW** - Static white **FS** - Full spectrum	**7W** - 7 W output, up to 714 lm **10W** [16] - 10 W output, up to 961 lm [15] Lumen outputs are reduced with full spectrum, consult factory. [16] Not available with IC/CP/AT.	**15DEG** - 15° Narrow spot **25DEG** - 25° Spot **35DEG** - 35° Narrow flood **50DEG** - 50° Wide flood	**2STP** [17] - 2 Step MacAdam Ellipse **3STP** - 3 Step MacAdam Ellipse [17] Not available with full spectrum.	**90CRI** [18] - 90 CRI **95CRI** - 95 CRI **80CRI** [18] - 80 CRI [18] Not available with full spectrum.
	SOLA - Dim-to-warm single channel control **DUO** - Tunable white 2-channel control	SOLA [16] **10W** - 10 W output, up to 525 lm DUO [16] **8W** - 8 W output, up to 500 lm	**25DEG** - 25° Spot **35DEG** - 35° Narrow flood **60DEG** - 60° Wide flood	**3STP** - 3 Step MacAdam Ellipse	**90CRI** - 90 CRI

COLOR TEMP.	ACCESSORY See page 5 for details	TRIM STYLE Specify same as Housing	BAFFLE FINISH	TRIM FLANGE FINISH Specify NA for Trimless
27K - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K SOLA **30K18K** - 3000K to 1800K **27K18K** - 2700K to 1800K DUO **65K27K** - 6500K to 2700K **50K27K** - 5000K to 2700K	**At light element** **LSDL** - Soft diffused lens, Solite **LFDL** - Frosted diffused lens	**TRM** - Flanged trim **TLMP** - Trimless drywall mudplate **TLMW** [19] - Trimless millwork [19] For remodel (RM) installation type, TLMW adapter must be installed from above the ceiling or before ceiling is installed.	**FMWH** - Matte white **FMBK** - Matte black **FMSL** - Matte silver **FPSPC** - Precision specular	**FMWH** - Matte white **FMBK** - Matte black **NA** - Not applicable

Housing

INSTALLATION TYPES

OF - Open Frame Type Non-IC	**IC** - Type-IC	**CP** - Chicago Plenum Type-IC (CCEA) **AT** - Airtight Type-IC
C 2 3/4" 13 13/16" 5 15/16"	C 2 3/4" 13 13/16" 5 15/16"	

RM - Remodel Type Non-IC	
Integral	Remote
C 1 11/16" 1 5/8" 8 7/16"	C 1 1/4" 15/16" 2 1/2" REMOTE DRIVER BOX

- 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
2 3/8"
3 3/4" B   A

RDB24W
5"
3 3/4" B A

	RDB8	RDB18	RDB24	RDB24W
A	10"	20"	26"	26"
B	8"	18"	24"	24"
DRIVER	**RD1** - 1% 0-10V **RELV** - ELV 120V **RTRI** - TRIAC 120V SOLA **RSD1** - Single 0-10V input **RSELV** - ELV 120V **RSTRI** - TRIAC 120V	**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 **RTRI+EB** - TRIAC 120V DUO **RDMX** - DMX **RDDA** - DALI DT6 **RDDA8** - DALI DT8 **RDD1** - Dual 0-10V input for CCT/intensity **RLD2** - Lutron DALI-2 digital	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 0.1% SOLOdrive 0-10V

PLENUM CLEARANCE & CUT-OUT DIMENSIONS
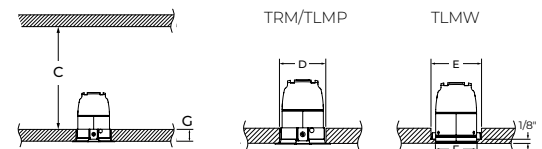
TRM/TLMP
TLMW

PLENUM CLEARANCE HEIGHT					
	REMOTE & INTEGRAL			INTEGRAL	REMOTE
	OF	IC	CP/AT	RM	RM
C	4"	4"	4"	4"	3 3/8"

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

MAXIMUM CEILING THICKNESS		
G	TRM/TLMP	1"
	TLMW	5/8"

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PoE Power over Ethernet

Housing

MOUNTING OPTIONS

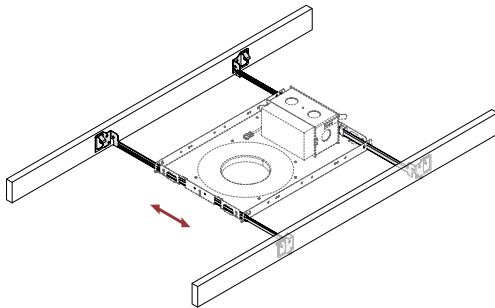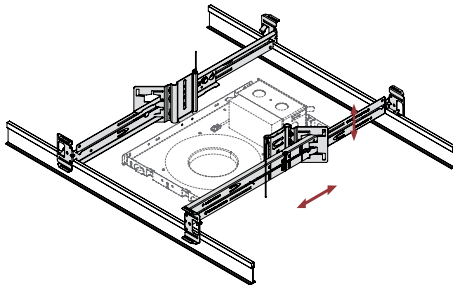### ASB - Adjustable Standard Bar Hangers
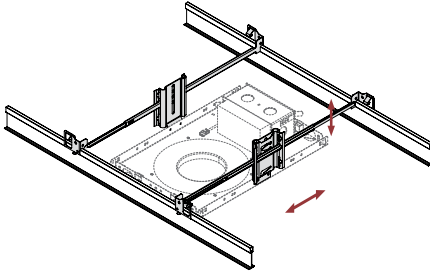
Adjustable Standard Bar hangers can be used in both commercial and residential applications and are adjustable to various heights in both Grid Ceiling and Drywall mounting. ASB hangers are less rigid and versatile than ACB hangers.

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

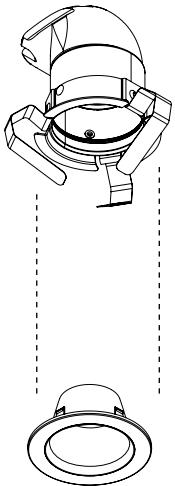### AHC - Adjustable Hat Channel Bars
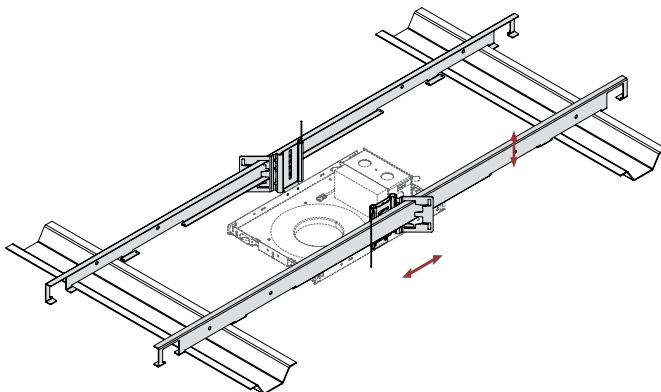
Adjustable Hat Channel bars can be used in both commercial and residential applications and come with a butterfly clip to adjust to various heights. AHC bars can be hung downward by 90 degrees in vertical position, and once wired, can be shifted onto the horizontal mounting plane. AHC bars are suitable for both Drywall and wood ceiling applications.
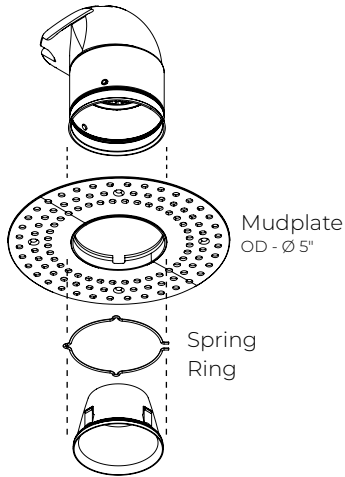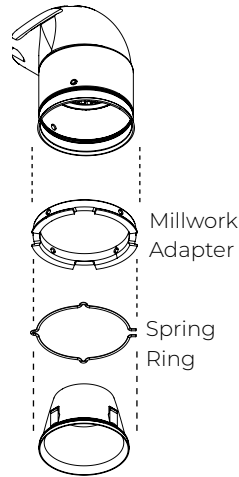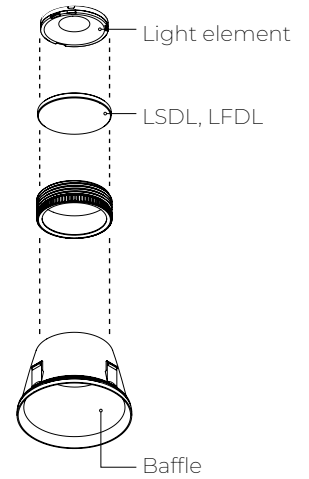
AERA 2" DEEP DOWNLIGHT
ROUND RECESSED

Lumenwerx

Light & Baffle

Flanged Trim

Mudplate
OD - Ø 5"

Spring Ring

Trimless Drywall Mudplate

Millwork Adapter

Spring Ring

Trimless Millwork

ACCESSORIES

Light element

LSDL, LFDL

Baffle

TRM Flanged Trim	**TLMP/TLMW** Trimless Drywall Mudplate /Trimless Millwork

Baffle finish

Trim flange finish

Ø 2 13/16"
Ø 2 1/16"
Ø 1 1/4"

Ø 2 1/16"
Ø 1 13/16"
Ø 1 1/4"

39° Cut-off
60° Shielding
1 5/16"
1/16"

39° Cut-off
60° Shielding
1 5/16"

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Intertek

Lumenwerx reserves the right to modify
product specifications without notification.
AERA2-DEEP-DOWNLIGHT-ROUND-RECESSED-SPEC-REV1   May 23, 2024

PoE

Color Quality

COLOR QUALITY - 3500K	
TM-30 R_f	91
TM-30 R_g	100
CRI	90
R9	> 50
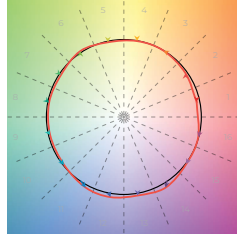
Photometrics

STATIC WHITE

Values calculated based on 3500K, matte white baffle, and LSDL lens option.
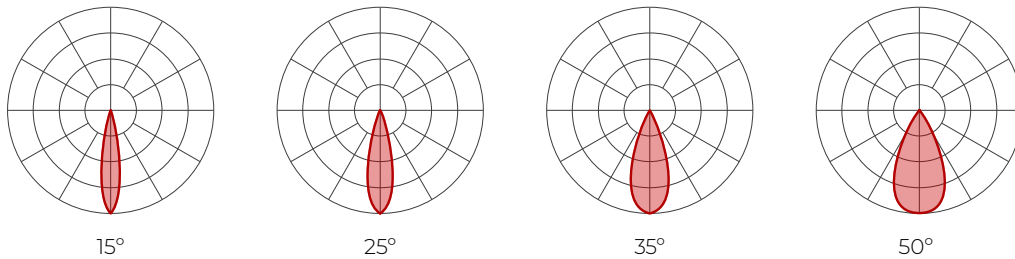
15°   25°   35°   50°

Delivered lumens

CRI	90 CRI				95 CRI				80 CRI			
BEAM	15°	25°	35°	50°	15°	25°	35°	50°	15°	25°	35°	50°
7 W	611	667	659	632	470	514	507	487	654	714	705	676
10 W	822	898	887	850	633	691	683	655	880	961	949	910

Efficacy

CRI	90 CRI				95 CRI				80 CRI			
BEAM	15°	25°	35°	50°	15°	25°	35°	50°	15°	25°	35°	50°
7 W	87	95	94	90	67	73	72	70	93	102	101	97
10 W	82	90	89	85	63	69	68	65	88	96	95	91

MULTIPLIERS

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

CCT	
2700K	0.9
3000K	0.95
3500K	1
4000K	1.05

TRIM STYLE	
Flanged trim	1
Trimless	1

BAFFLE FINISH	
Matte White	1
Matte Black	0.95
Matte Silver	0.98
Precision Specular	1

ACCESSORIES * (At light element)	
LSDL - Soft diffused lens, Solite	1
LFDL - Frosted lens	0.8

Photometrics

SOLA/DUO

Values calculated based on matte white baffle and LSDL lens option.
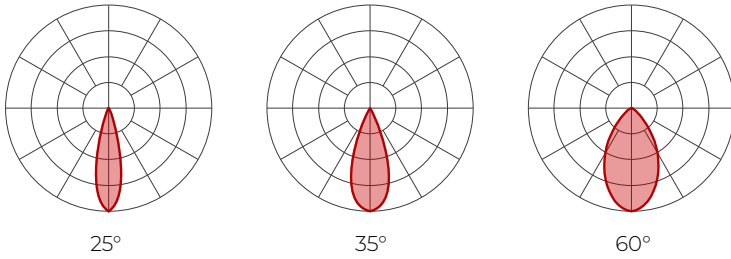
| 25° | 35° | 60° |

SOLA

BEAM		25°		35°		60°	
		lm	lm/W	lm	lm/W	lm	lm/W
10 W	3000K	495	50	525	53	485	49
	2700K	495	50	525	53	485	49

DUO

BEAM		25°		35°		60°	
		lm	lm/W	lm	lm/W	lm	lm/W
8 W	6500K	500	63	485	61	440	55
	5000K	500	63	485	61	440	55
	2700K	430	54	420	53	355	44

MULTIPLIERS

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

TRIM STYLE	
Flanged trim	1
Trimless	1

BAFFLE FINISH	
Matte White	1
Matte Black	0.95
Matte Silver	0.98
Precision Specular	1

ACCESSORIES * (At light element)	
LSDL - Soft diffused lens, Solite	1
LFDL - Frosted lens	0.8

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AERA2-DEEP-DOWNLIGHT-ROUND-RECESSED-SPEC-REV1   May 23, 2024
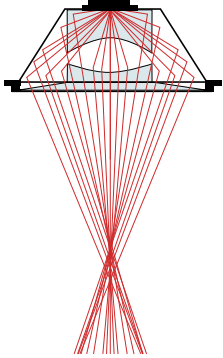
Technical Specifications

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.

LIGHT SOURCE

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.

Full spectrum

The full spectrum LED option offers improved color particularly in the cyan region which helps increase Cyanosis Observation Index (COI) and assist in regulating circadian rhythms. The cyan region in full spectrum LED is richer at the 480 nm range.

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.

ELECTRICAL

Unless otherwise specified, dimming down to 1%. At maximum driver load: efficiency>84%, PF>0.9, THD<20%.
Integral: 0-10V, ELV, TRIAC
Remote: 0-10V, ELV, TRIAC, Lutron Hi-Lume 1% EcoSystem, DALI, eldoLED 0.1% SOLOdrive 0-10V, eldoLED 1% ECOdrive 0-10V, DMX, Lutron DALI-2 digital
Emergency battery options: Remotely-installed, long-life, 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.

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. Adjustable commercial hat channel and flush mounted brackets are also available.

Lumenwerx

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.
XPoint™ Refraction Technology optic: 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: Polycarbonate plastic with integrated clips
Trim style: Trimmed and trimless with mudplate or millwork adapter

WEIGHT
Open Frame: 4.0 lbs - 1.8 kg
Type-IC: 6.5 lbs - 2.9 kg
Chicago Plenum: 6.5 lbs - 2.9 kg
Remodel: 2.25 lbs - 1.0 kg

ACCESSORIES

Soft diffused lens, Solite

Frosted diffused lens

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.
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.