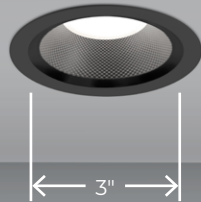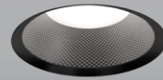# AERA 3" DEEP DOWNLIGHT
ROUND RECESSED

Lumenwerx

Aera Deep Prism Flanged Trim

Aera Deep Smooth Trimless

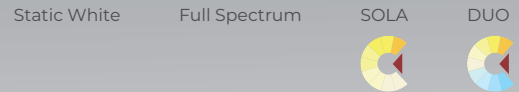Aera Deep Smooth Flanged Trim

3"

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
1132 lm	10 W	113 lm/W
1545 lm	14 W	110 lm/W
2135 lm	20W	107 lm/W

[1] Lumen packages are assuming 3500K, 80 CRI, 35° beam, with LSDL lens option.

Ceiling Types

Drywall   Millwork   Acoustic Tile
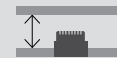
Plenum Clearance

As low as 3 3/8"

Aera Downlight Family (Refer to other spec sheets)

Downlight

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

2" / 3" / 4"
Round / Square
Recessed

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

Deep

2" / 3"
Round / Square
Recessed

Multi-aperture

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

2" / 3" / 4"
Round / Square
Recessed

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

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

ETL LISTED Intertek

Lumenwerx reserves the right to modify product specifications without notification.
AERA3-DEEP-DOWNLIGHT-ROUND-RECESSED-SPEC-REV0   February 19, 2024

PoE

AERA 3" DEEP DOWNLIGHT
ROUND RECESSED

Lumenwerx

Project: _____

_____

Type: _____

Order Guide
1 - Housing (Example: AE3DPPRR-TRM-SW-OF-ASB-120V-10W-D1)

LUMINAIRE ID [1]	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTION [4]
AE3DPPRR - Aera 3" Deep Prism Round Recessed **AE3DPSRR** - Aera 3" Deep Smooth 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 19 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.	**10W** - 10 W output, up to 1132 lm **14W** - 14 W output, up to 1545 lm **20W** [8] - 20 W output, up to 2135 lm [7] Lumen outputs are reduced with full spectrum, consult factory. [8] Not available with IC/CP/AT. **SOLA** [8] **19W** - 19 W output, up to 1205 lm **DUO** [8] **19W** - 19 W output, up to 1355 lm	**INTEGRAL** **D1** - 1% 0-10V **ELV** [10] - ELV 120V **TRI** [10] - TRIAC 120V **DA** [11, 12] - DALI **ELD1** [11] - eldoLED 1% ECOdrive 0-10V **ELD0** [11] - eldoLED 0.1% SOLOdrive 0-10V **PEQ0** [12, 13] - Lutron Hi-lume Premier 0.1% EcoSystem [9] PoE (Power-over-Ethernet) compatible. Consult factory for details. [10] Available with 120V only. [11] Not available with RM installation type. [12] On-site commissioning is required. [13] Available with OF installation type only.		**REMOTE** [14] **RD1** - 1% 0-10V **RELV** [15] - ELV 120V **RTRI** [15] - TRIAC 120V **RLDE1** [16] - Lutron Hi-lume 1% Eco **RDA** [16] - DALI **RELD1** - eldoLED 1% ECOdrive 0-10V **RELD0** - eldoLED 0.1% SOLOdrive 0-10V **RPEQ0** [16] - Lutron Hi-lume Premier 0.1% EcoSystem **+EB** [17] - Emergency battery [14] A remote driver box is provided, see page 5 for details. [15] Available with 120V only. [16] On-site commissioning is required. [17] For emergency battery, code will be like the following example: RD1+EB
		SOLA **SD1** - Single 0-10V input **SELV** [10] - ELV 120V **STRI** [10] - TRIAC 120V	**SOLA** **RSD1** - Single 0-10V input **RSELV** [15] - ELV 120V **RSTRI** [15] - TRIAC 120V	**DUO** **RDMX** [16] - DMX **RDDA** [16] - DALI DT6 **RDDA8** [16] - DALI DT8 **RDD1** - Dual 0-10V input for CCT/intensity **RPSQ0** [16] - Lutron T-Series 1% tunable white

2 - Light & Baffle (Example: AE3DPPRRB-SW-10W-15DEG-2STP-90CRI-27K-LSDL-TRM-FMWH-FMWH)

LUMINAIRE ID	LIGHT SOURCE Specify same as Housing	WATTAGE [18] Specify same as Housing	BEAM	COLOR QUALITY	CRI
AE3DPPRRB - Aera 3" Deep Prism Round Recessed **AE3DPSRRB** - Aera 3" Deep Smooth Round Recessed	**SW** - Static white **FS** - Full spectrum	**10W** - 10 W output, up to 1132 lm **14W** - 14 W output, up to 1545 lm **20W** [19] - 20 W output, up to 2135 lm [18] Lumen outputs are reduced with full spectrum, consult factory. [19] Not available with IC/CP/AT.	**15DEG** - 15° Narrow spot **25DEG** - 25° Spot **35DEG** - 35° Narrow flood **50DEG** - 50° Wide flood	**2STP** [20] - 2 Step MacAdam Ellipse **3STP** - 3 Step MacAdam Ellipse [20] Not available with full spectrum.	**90CRI** [21] - 90 CRI **95CRI** - 95 CRI **80CRI** [21] - 80 CRI [21] Not available with full spectrum.
	SOLA - Dim-to-warm single channel control **DUO** - Tunable white 2-channel control	**SOLA** [19] **19W** - 19 W output, up to 1205 lm **DUO** [19] **19W** - 19 W output, up to 1355 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** [22] - Trimless millwork [22] 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

ETL LISTED c us Intertek

PoE Power over Ethernet

AERA 3" DEEP DOWNLIGHT
ROUND RECESSED

Lumenwerx

Housing

INSTALLATION TYPES		
OF - Open Frame Type Non-IC	**IC** - Type-IC	**CP** - Chicago Plenum Type-IC (CCEA) **AT** - Airtight Type-IC

8 5/8" 4 5/8" 12 3/4" C

8 5/8" 12 3/4" 4 5/8" C

8 5/8" 8 1/16" 14 5/16" C

RM - Remodel Type Non-IC	
Integral	Remote

2 5/16" 2 1/4" 8 5/8" C

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.
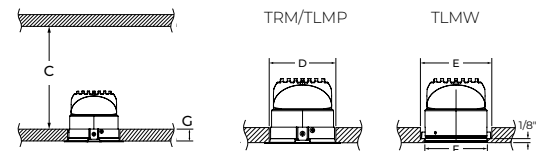- For OF, IC, CP, and AT installation types with remote dimming, a remote driver box is provided.

PLENUM CLEARANCE & CUT-OUT DIMENSIONS

C   TRM/TLMP D G   TLMW E F 1/8"

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 **RPEQ0** - Lutron Hi-lume Premier 0.1% EcoSystem 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 **RPSQ0** - Lutron T-Series 1% tunable white	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 HEIGHT	
		REMOTE & INTEGRAL	
		D1/ELV/TRI	LDE1/DA /ELD1/ELD0/PEQ0
C	OF	2 5/8" (FMB) 4 1/8"	6"
	IC	2 5/8" (10 W - FMB) 4" (10 W - ASB, ACB, AHC) 4" (14 W) 6 3/8" (20 W)	6 3/8"
	CP /AT	4 7/8" (14 W) 6 7/8" (20 W)	6 7/8"
	RM	4 1/8"	NA

		CUT-OUT DIMENSIONS
D	TRM/ TLMP	Ø 3 1/2"
E	TLMW	Ø 3 1/2"
F		Ø 3 1/16" with 1/8" lip

		MAXIMUM CEILING THICKNESS
G	TRM/ TLMP	1 3/8"
	TLMW	5/8"

ETL LISTED Intertek

Lumenwerx reserves the right to modify product specifications without notification.
 AERA3-DEEP-DOWNLIGHT-ROUND-RECESSED-SPEC-REV0   February 19, 2024

PoE

Lumenwerx

Housing

MOUNTING OPTIONS

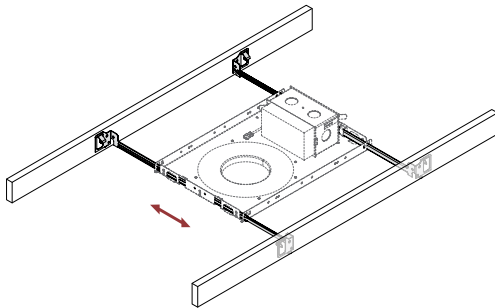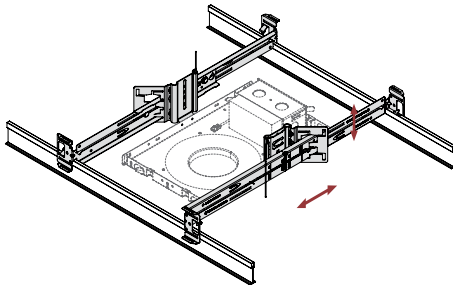### ASB - Adjustable Standard Bar Hangers
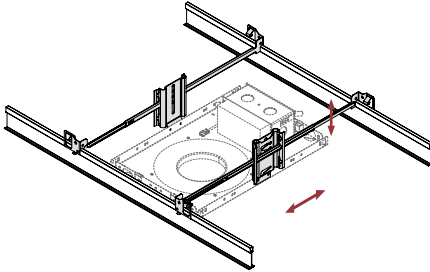
Adjustable Standard Bar hangers can be used in both commercial and residential applications and are adjustable to various heights in both Grid Ceiling and Drywall mounting. ASB hangers are less rigid and versatile than ACB hangers.

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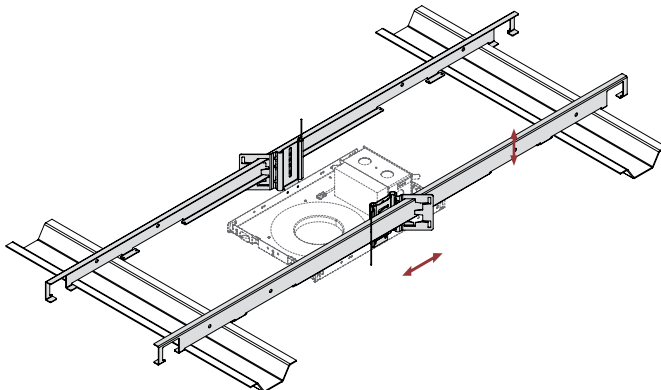
Adjustable Hat Channel bars can be used in both commercial and residential applications and come with a butterfly clip to adjust to various heights. AHC bars can be hung downward by 90 degrees in vertical position, and once wired, can be shifted onto the horizontal mounting plane. AHC bars are suitable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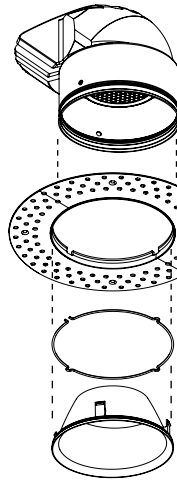
ETL LISTED Intertek

PoE

AERA 3" DEEP DOWNLIGHT
ROUND RECESSED

Light & Baffle

Flanged Trim
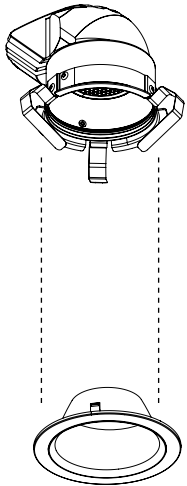
Mudplate
OD - Ø 5 7/8"

Spring
Ring
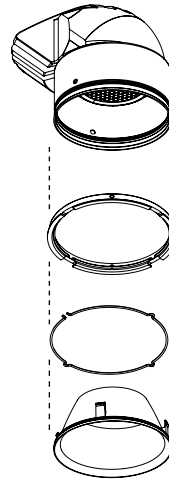
Trimless Drywall
Mudplate

Millwork
Adapter

Spring
Ring

Trimless Millwork

ACCESSORIES

Light element

LSDL, LFDL
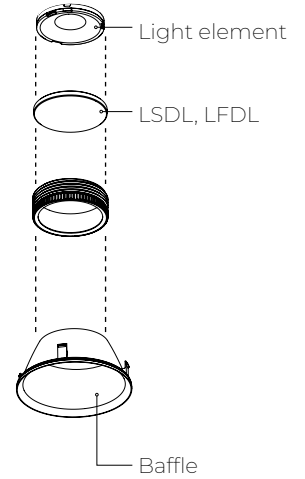
Baffle

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

Baffle finish

Trim flange finish

Ø 3 13/16"   Ø 3 1/16"   Ø 1 3/4"

29°
Cut-off

1 5/16"

45°
Shielding

1/16"

Ø 3 1/16"   Ø 1 3/4"

29°
Cut-off

1 5/16"

45°
Shielding

ETL LISTED
c us
Intertek

Lumenwerx reserves the right to modify
product specifications without notification.
AERA3-DEEP-DOWNLIGHT-ROUND-RECESSED-SPEC-REV0   February 19, 2024

PoE
Power over Ethernet

AERA 3" DEEP DOWNLIGHT
ROUND RECESSED

Lumenwerx
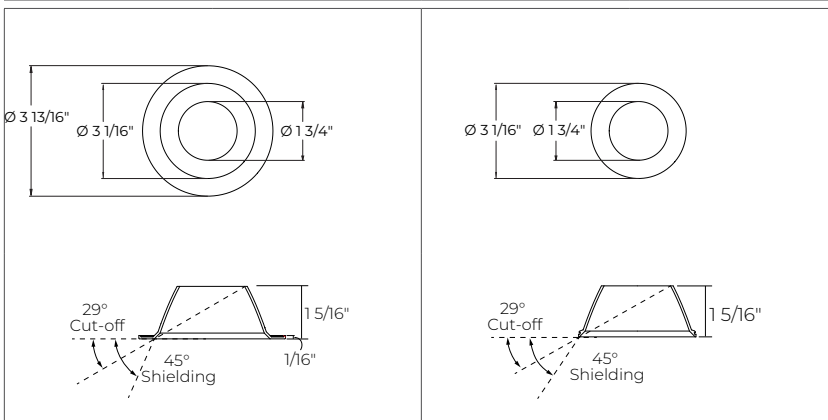
Color Quality

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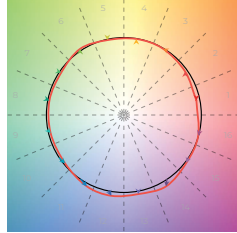
Photometrics

STATIC WHITE

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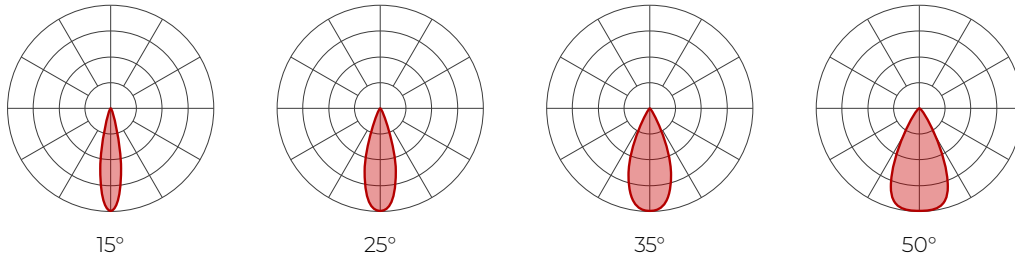
| 15° | 25° | 35° | 50° |

Delivered lumens

CRI	90 CRI				95 CRI				80 CRI			
BEAM	15°	25°	35°	50°	15°	25°	35°	50°	15°	25°	35°	50°
10 W	987	1053	1058	937	760	811	815	721	1056	1127	1132	1003
14 W	1347	1438	1444	1280	1037	1107	1112	986	1441	1539	1545	1370
20 W	1861	1986	1995	1768	1433	1529	1536	1361	1991	2125	2135	1892

Efficacy

CRI	90 CRI				95 CRI				80 CRI			
BEAM	15°	25°	35°	50°	15°	25°	35°	50°	15°	25°	35°	50°
10 W	99	105	106	94	76	81	81	72	106	113	113	100
14 W	96	103	103	91	74	79	79	70	103	110	110	98
20 W	93	99	100	88	72	76	77	68	100	106	107	95

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

ETL LISTED Intertek

PoE

AERA 3" DEEP DOWNLIGHT
ROUND RECESSED

Lumenwerx

Photometrics

SOLA/DUO

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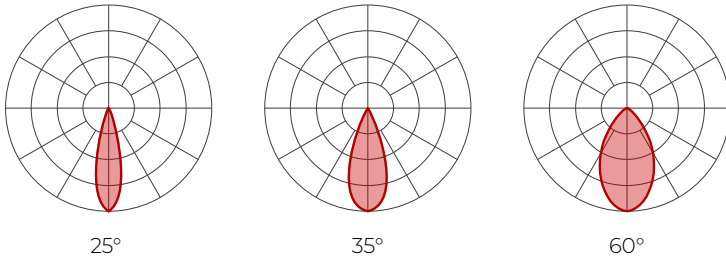
25°	35°	60°

SOLA

BEAM			25°		35°		60°	
			lm	lm/W	lm	lm/W	lm	lm/W
19 W	3000K		1150	61	1205	63	1100	58
	2700K		1150	61	1205	63	1100	58

DUO

BEAM			25°		35°		60°	
			lm	lm/W	lm	lm/W	lm	lm/W
19 W	6500K		1285	68	1355	71	1190	63
	5000K		1285	68	1355	71	1190	63
	2700K		1050	55	1090	57	960	51

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

c ETL us LISTED
Intertek

Lumenwerx reserves the right to modify
product specifications without notification.
AERA3-DEEP-DOWNLIGHT-ROUND-RECESSED-SPEC-REV0   February 19, 2024

PoE
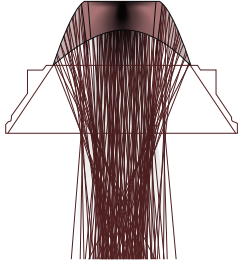Power over Ethernet

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

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: 4.3 lbs - 1.9 kg
Type-IC: 4.5 lbs - 2.0 kg
Chicago Plenum: 7.5 lbs - 3.4 kg
Remodel: 3.25 lbs - 1.5 kg

ETL LISTED Intertek

AERA3-DEEP-DOWNLIGHT-ROUND-RECESSED-SPEC-REV0   February 19, 2024

PoE

Lumenwerx

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.

ETL
Intertek

PoE