AERA 3" FLEX CYLINDER

RECESSED
DIRECT

Lumenwerx

5 YEAR WARRANTY

Beam Angles

| 15° | 25° | 35° | 50° | 80° | 90° |

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

Performance

LUMEN OUTPUT [1]	WATTS	EFFICACY
1132 lm	10 W	113 lm/W
1545 lm	14 W	110 lm/W

[1] Lumen packages are assuming 3500K, 80 CRI, 35° beam, bevel baffle, SDL lens option.

The Aera 3" Flex Cylinder is adjustable, tilting upwards to 90 degrees and rotating 355 degrees. Mountable as a recessed, surface, pendant, or wall fixture, it brings to the Aera family added flexibility and more options to customize lighting effects.

Light Source

Static White
Full Spectrum
SOLA - Dim-to-Warm
DUO - Tunable White

Ceiling Type

Drywall

COB

2 Step Color Binning
Up to 95 CRI

Installation Types

New Construction   (Type Non-IC)
Remodel   (Type Non-IC)

Driver

1%, 0.1% Dimming Available
0-10V, TRIAC, ELV, Lutron EcoSystem, DALI, DMX
Emergency Battery (optional)

Aera Cylinder Family (Refer to other spec sheets)

Cylinder

2" / 3" / 4" / 5"
4" Seal
Pendant
Pendant Asymmetric
Pendant Wall Wash

2" / 3" / 4" / 5"
4" Seal
Wall
Wall Asymmetric

2" / 3" / 4" / 5"
4" Seal
Surface
Surface Asymmetric
Surface Wall Wash

Inflex Cylinder

3" / 4"
Pendant

3" / 4"
Surface

Flex Cylinder

3"
Pendant

3"
Recessed

3"
Surface

3"
Wall

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PoE Powered over Ethernet

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Project: _____

Type: _____

Order Guide

1 - Housing (Example: AE3FXCYR-TRM-SW-OF-ASB-120V-10W-D1)

LUMINAIRE ID	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTION [1]
AE3FXCYR				
AE3FXCYR - Aera 3" Flex Cylinder Recessed	**TRM** - Flanged trim **TLMP** - Trimless drywall mudplate	**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 **RM** - Remodel Type Non-IC	**ASB** - Adjustable standard bar hangers **FMB** - Flush mount bars **ACB** - Adjustable commercial bar hangers **AHC** [1] - Adjustable hat channel bars **NA** - None [1] See page 4 for more details.

VOLTAGE	WATTAGE [3]	DIMMING [4]		
120V - 120V **277V** - 277V **UNV** - 120V-277V **347V** [2] - 347V [2] Available with RD1 driver only. Please consult factory.	**10W** - 10 W output, up to 1132 lm **14W** - 14 W output, up to 1545 lm [3] Lumen outputs are reduced with full spectrum, consult factory.	**INTEGRAL** **D1** - 1% 0-10V **ELV** [5] - ELV 120V **TRI** [5] - TRIAC 120V [4] PoE (Power-over-Ethernet) compatible. Consult factory for details. [5] Available with 120V only.	**REMOTE** [6] **RD1** - 1% 0-10V **RELV** [7] - ELV 120V **RTRI** [7] - TRIAC 120V **RLDE1** [8] - Lutron Hi-lume 1% Eco [6] A remote driver box is provided, see page 3 for details. [7] Available with 120V only. [8] On-site commissioning is required. [9] For emergency battery, code will be like the following example: RD1+EB	**RDA** [8] - DALI **RELD1** - eldoLED 1% ECOdrive 0-10V **RELD0** - eldoLED 0.1% SOLOdrive 0-10V **+EB** [9] - Emergency battery
	SOLA **12W** - 12 W output, up to 725 lm **DUO** **11W** - 11 W output, up to 525 lm	**SOLA** **SD1** - Single 0-10V input **SELV** [5] - ELV 120V **STRI** [5] - TRIAC 120V	**SOLA** **RSD1** - Single 0-10V input **RSELV** [7] - ELV 120V **RSTRI** [7] - TRIAC 120V	**DUO** **RDMX** [8] - DMX **RDDA** [8] - DALI DT6 **RDDA8** [8] - DALI DT8 **RDD1** - Dual 0-10V input for CCT/intensity **RLD2** [8] - Lutron DALI-2 digital

2 - CYLINDER (Example: AE3FXCYRL-D-4.5IN-FTMW-BVL-FTMW-SDL-SW-15DEG-2STP-90CRI-27K-NA)

LUMINAIRE ID [10]	DISTRIBUTION	CYLINDER HEIGHT [11]	CYLINDER FINISH	BAFFLE STYLE	BAFFLE FINISH
AE3FXCYRL	**D**				
AE3FXCYRL - Aera 3" Flex Cylinder Recessed [10] Pendant, Surface, and Wall also available. Consult other spec sheets.	**D** - Direct	**4.5IN** - 4.5" **6IN** - 6" [11] See page 5 for dimensions.	**FTMW** - Textured matte white **FTMB** - Textured matte black **FCHP** - Champagne **CF#** - Custom finish, specify RAL#	**BVL** - Bevel **PHL** - Pinhole **BVLD** - Decorative bevel	**FTMW** - Textured matte white **FTMB** - Textured matte black **FSPC** - Specular **FSSPC** - Semi-specular **FCHP** - Champagne **CF#** - Custom finish, specify RAL#

LENS * See page 5 for details	LIGHT SOURCE	BEAM	COLOR QUALITY	CRI	COLOR TEMP.	ACCESSORIES * See page 5 for details
At baffle (choose 1 option) Specify NOL for Pinhole **SDL** - Soft diffused lens, Solite **FDL** - Frosted diffused lens **CL** - Clear lens **NOL** - No lens	**SW** - Static white **FS** - Full spectrum **SOLA** - Dim-to-warm single channel control **DUO** - Tunable white 2-channel control	**15DEG** - 15° Narrow spot **25DEG** - 25° Spot **35DEG** - 35° Narrow flood **50DEG** - 50° Wide flood **80DEG** - 80° Very wide flood **90DEG** - 90° Open flood **50DEG** - 50° Wide flood	**2STP** [12] - 2 Step MacAdam Ellipse **3STP** - 3 Step MacAdam Ellipse [12] Not available with full spectrum. **3STP** - 3 Step MacAdam Ellipse	**90CRI** [13] - 90 CRI **95CRI** - 95 CRI **80CRI** [13] - 80 CRI [13] Not available with full spectrum. **90CRI** - 90 CRI	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **SOLA** [14] - Dim-to-warm single channel control **DUO** [15] - Tunable white 2-channel control [14] 3500K to 2200K [15] 6500K to 2700K	**At light element** [16,17] (choose up to 2 options) **LSDL** - Soft diffused lens, Solite **LFDL** - Frosted diffused lens **LS** - Linear spread **HEX** [18] - Hex louver **NA** - None [16] Separate codes with a "+" if more than one is specified, e.g. LSDL+LS. [17] LSDL and LFDL cannot be combined. LS and HEX cannot be combined. [18] Not available with 80°/90° beam options

* LSDL or LFDL at light element cannot be combined with SDL, FDL, or CL at baffle. For SOLA/DUO, one of the following lenses must be specified: SDL, FDL, LSDL, or LFDL.

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PoE Power-over-Ethernet

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Housing

INSTALLATION TYPES

OF - Open Frame Type Non-IC	**RM** - Remodel Type Non-IC	
	Integral	Remote

3 1/8"
C
2 13/16"
2 3/16"
9 1/8"

3 1/8"
C
2 13/16"
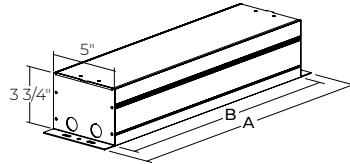2 3/16"
9 1/8"
REMOTE DRIVER BOX

8 5/8"
4 5/16"
12 3/4"

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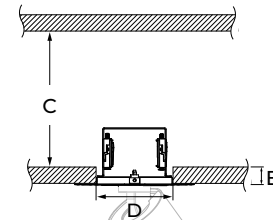- For OF installation type with remote dimming, a remote driver box is provided.

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 **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 **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

C
E
D

	PLENUM CLEARANCE HEIGHT		
	REMOTE & INTEGRAL		
		D1/ELV/TRI	LDE1/DA /ELD1/ELD0
C	OF	4 1/8"	6"
	RM	2 3/4"	N/A

	CUT-OUT DIMENSIONS	
D	TRM/ TLMP	Ø 3 7/8"

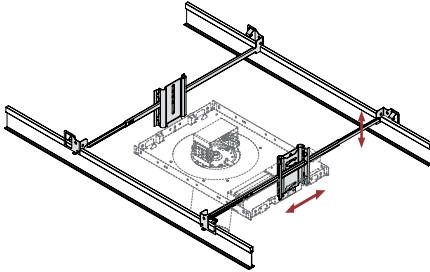|	MAXIMUM CEILING THICKNESS	
E	TRM/ TLMP	1 3/8"

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Housing

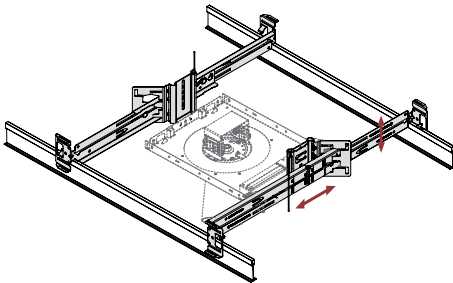| MOUNTING OPTIONS |
|---|

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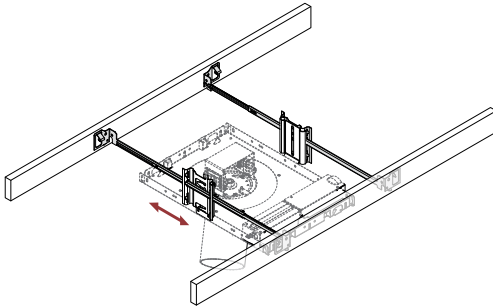
Flush Mount Bars are best used in residential applications, fitting snug to the surface and suitable for Wood, Metal, and Drywall mounting. The flush mounted bars are static and can't be adjusted.

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
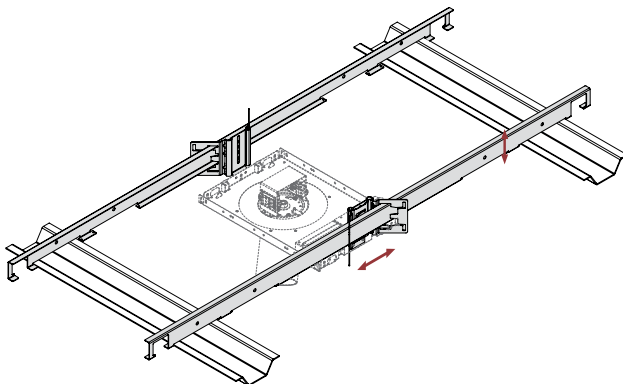
Adjustable Hat Channel bars can be used in both commercial and residential applications and come with a butterfly clip to adjust to various heights. AHC bars can be hung downward by 90 degrees in vertical position, and once wired, can be shifted onto the horizontal mounting plane. AHC bars are suitable for both Drywall and wood ceiling applications.
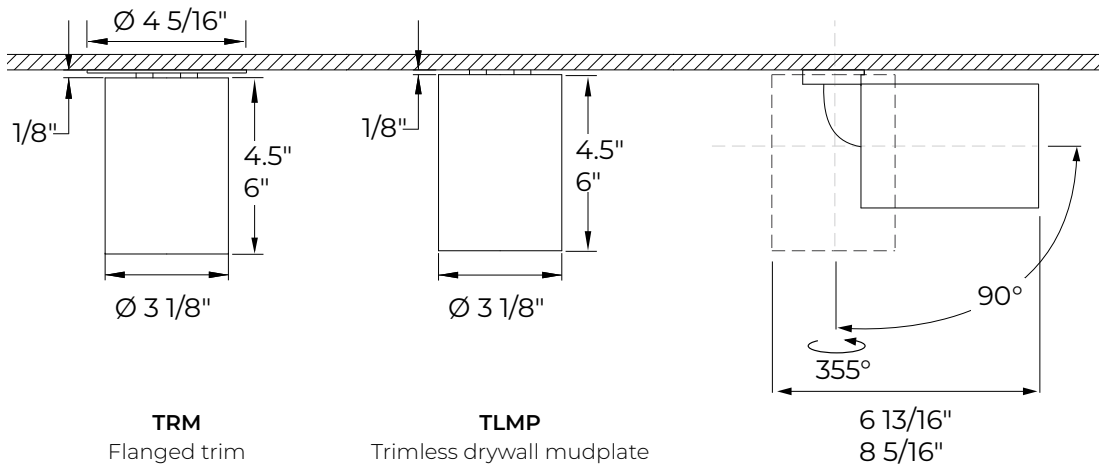
Lumenwerx reserves the right to modify product specifications without notification.
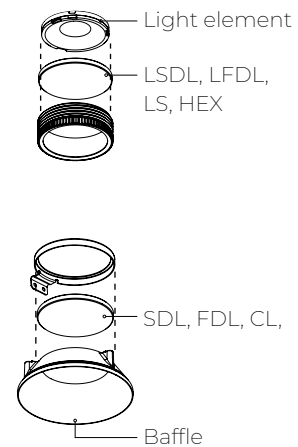AERA3-FLEX-CYLINDER-RECESSED-SPEC-REV1   July 5, 2024

AERA 3" FLEX CYLINDER

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Cylinder
Dimensions

Ø 4 5/16"

1/8"
4.5"
6"
Ø 3 1/8"

TRM
Flanged trim

1/8"
4.5"
6"
Ø 3 1/8"

TLMP
Trimless drywall mudplate

90°
355°
6 13/16"
8 5/16"

BAFFLE

BVL Bevel	**PHL** Pinhole	**BVLD** Decorative bevel

Baffle finish
Textured matte black

Ø 3 1/16" / Ø 1 13/16"	Ø 3 1/16" / Ø 1 13/16"	Ø 3 1/8" / Ø 1 13/16"
20° Cut-off 56° Shielding 7/8"	40° Cut-off Optic 13/16"	23° Cut-off 58° Shielding 1" 3/16"

LENS AND ACCESSORIES

Light element

LSDL, LFDL, LS, HEX

SDL, FDL, CL,

Baffle

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Color Quality

COLOR QUALITY - 3500K	
TM-30 R$_f$	90
TM-30 R$_g$	100
CRI	90
R9	> 50
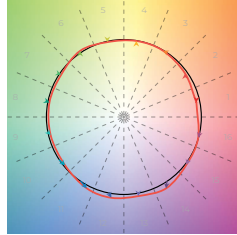
Photometrics

Values calculated based on 3500K, bevel baffle, and SDL lens option.
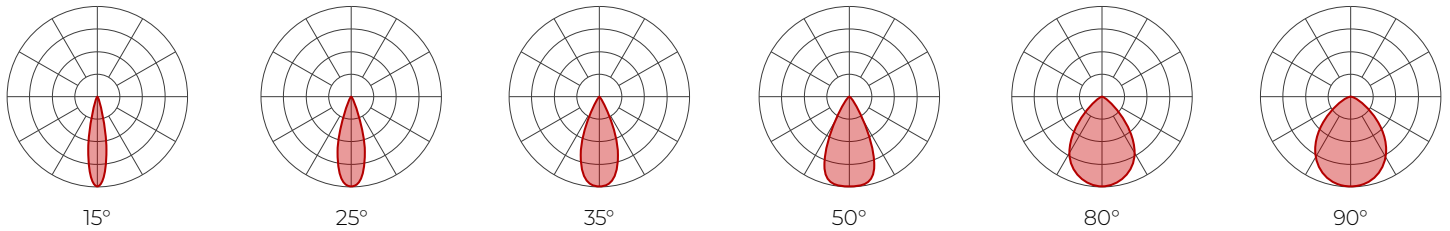
| 15° | 25° | 35° | 50° | 80° | 90° |

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°
10 W	987	1053	1058	937	843	843	760	811	815	721	649	649	1056	1127	1132	1003	902	902
14 W	1347	1438	1444	1280	1152	1152	1037	1107	1112	986	887	887	1441	1539	1545	1370	1233	1233

Efficacy

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°
10 W	99	105	106	94	84	84	76	81	81	72	65	65	106	113	113	100	90	90
14 W	96	103	103	91	82	82	74	79	79	70	63	63	103	110	110	98	88	88

MULTIPLIERS

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

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

For SOLA and DUO, please consult factory.

BAFFLE STYLE AND COLOR		
Bevel	White	1
	Black	1
Pinhole	White	0.92
	Black	0.92
Decorative bevel	White	1
	Black	1

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

* 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

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

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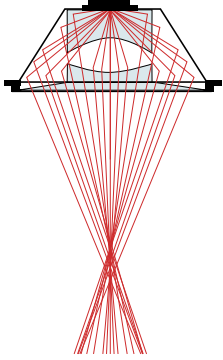
Technical Specifications

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. 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 (6500K) to warm (2700K) LED arrays - maintaining a CRI above 90. 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 option: 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 housing. 18 gauge galvanized steel junction box with 1/2" trade size knockouts. Adjustable hanger bars and butterfly brackets are included. Adjustable commercial hat channel and flush mounted brackets are also available.
Cylinder: Die-cast and extruded aluminum
Finish: Textured matte white, black, and champagne. Custom colors also available (provide RAL #). Specular and semi-specular finishes are also available for Baffle.
Heat sink: Die-cast aluminum
Baffle: Die-cast aluminum
Baffle style: Bevel, pinhole, and decorative bevel

WEIGHT

	4.5"	6"
Open frame	3.6 lbs - 1.62 kg	4.2 lbs - 1.89 kg
Remodel	3.0 lbs - 1.35 kg	3.6 lbs - 1.62 kg

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PoE

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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.

WARRANTY

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

Intertek

PoE