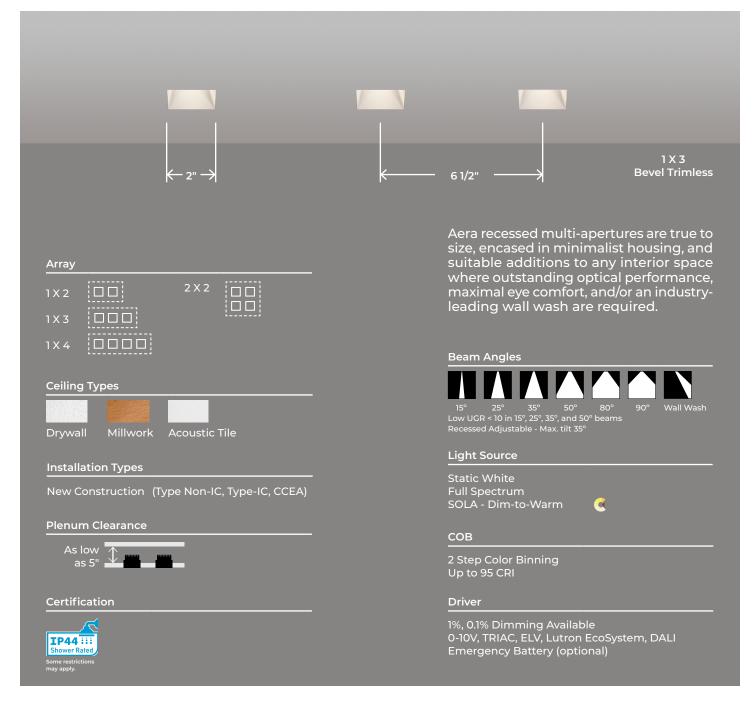
AERA 2" MULTI-APERTURE **Lumenwerx**

SQUARE RECESSED







Aera Family (Refer to other spec sheets) Downlight



Round / Square Round / Square Recessed Adjustable Recessed



Round / Square Recessed Wall Wash

Multi-aperture









Recessed Wall Wash

Cylinder







2"/3"/4"/5" Wall



2"/3"/4"/5" Surface Surface Asymmetric









AERA 2" MULTI-APERTURE **Lumenwerx**



SQUARE RECESSED

Project:			
_			
Typo:			

Order Guide

1 - Housing (Example: AE2MSR-1X2M-TRM-OF-ASB)

LUMINAIRE ID 1	ARRAY	TRIM STYLE	INSTALLATION TYPE	MOUNTING OPTION 3
AE2MSR				
AE2MSR - Aera 2" Multi- aperture Square Recessed Round recessed also available. Consult other spec sheet.	1X2M - 1 X 2 1X3M - 1 X 3 1X4M - 1 X 4 2X2M - 2 X 2	TRM - Flanged trim TLMP - Trimless drywall mudplate TLMW - Trimless millwork	OF - Open Frame Type Non-IC IC ² - Type-IC CP ² - Chicago Plenum Type-IC (CCEA) ² Not available with 10 W output.	ASB - Adjustable standard bar hangers FMB - Flush mount bars ACB - Adjustable commercial bar hangers AHC - Adjustable hat channel bars NA - None
				³ See page 4 for more details.

МОІ	DULE (Specify order code for each module)	1X2	M1 M2 2 X 2 M1 M2
M1 M2		1X3	M3 M4
M3		1X4	M1 M2 M3 M4

LUMINAIRE ID	LIGHT SOURCE	BEAM Specify WW for Wall Wash	COLOR QUALITY	CRI	COLOR TEMP.	VOLTAGE
AE2MSRB - Aera 2" Square Recessed Bevel AE2MSRAB - Aera 2" Square Recessed Adjustable Bevel AE2MSRWWB - Aera 2" Square Recessed Wall Wash	SW - Static white FS - Full spectrum	15DEG ⁴ - 15° Narrow spot 25DEG - 25° Spot 35DEG - 35° Narrow flood 50DEG - 50° Wide flood 80DEG - 80° Very wide flood 90DEG - 90° Open flood WW - Wall wash	2STP 5 - 2 Step MacAdam Ellipse 3STP - 3 Step MacAdam Ellipse 5Not available with full spectrum.	90CRI ⁶ - 90 CRI 95CRI - 95 CRI 80CRI ⁶ - 80 CRI ⁶ Not available with full spectrum.	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K	120V - 120V 277V - 277V UNV - 120V-277V 347V ⁷ - 347V ⁷ Available with RDI driver only. Please consult factory.
	SOLA - Dim-to-warm single channel control	25DEG - 25° Spot 35DEG - 35° Narrow flood 60DEG - 60° Wide flood 80DEG - 80° Very wide flood 90DEG - 90° Open flood WW - Wall wash	3STP - 3 Step MacAdam Ellipse	90CRI - 90 CRI	30K18K - 3000K to 1800K 27K18K - 2700K to 1800K	

WATTAGE PER LIGH	IT ⁸		DIMMING 10,11						
RECESSED	RECESSED ADJ.	RECESSED WW	INTEGRAL	REMOTE 13					
7W - 7 W output, up to 714 lm 10W ⁹ - 10 W output, up to 961 lm	7W - 7 W output, up to 560 lm 10W ⁹ - 10 W output, up to 736 lm	7W - 7 W output, up to 414 lm 10W 9 - 10 W output, up to 557 lm	D1 - 1% 0-10V ELV ¹² - ELV 120V TRI ¹² - TRIAC 120V ¹⁰ A driver provided per light.	RDI - 1% 0-10V RELV 14 - ELV 120V RTRI 16 - TRIAC 120V RLDE1 16 - Lutron Hi-lume 1% Eco Bemote driver boxes (RDB) are provided. Multiple RDBs may be required. See page 3 ft					
[®] Lumen outputs are reduced with full spectrum, consult factory. [®] Not available with IC/CP.			 PoE (Power-over-Ethernet) compatible. Consult factory for details. Available with 120V only. 	¹³ Available with 120V only. ¹⁴ Available with 120V only. ¹⁵ On-site commissioning is required. ¹⁶ For emergency battery, code will be like					
10W ° - 10 W output, up to 525 lm	10W ⁹ - 10 W output, up to 525 lm	10W ⁹ - 10 W output, up to 415 lm	SD1 - Single 0-10V input SELV ¹² - ELV 120V STRI ¹² - TRIAC 120V	RSD1 - Single 0-10V input RSELV ¹⁴ - ELV 120V RSTRI ¹⁴ - TRIAC 120V					

10W 9 - 10 W output, up to 525 lm	10W ⁹ - 10 W output, up to 525 lm	up to 415 lm	selv ¹² - ELV 120V STRI ¹² - TRIAC 120V	RSD1 - Single 0-10V input RSELV ¹⁴ - ELV 120V RSTRI ¹⁴ - TRIAC 120V		
ACCESSORIES * See page 6 for details	**		LENS * See page 6 for details	BAFFLE FINISH	TRIM FLANCE FINISH Specify NA for Bevel Trimless & Wall Wash Trimless	OPTION Specify NA for Wall Wash
At light element ^{17,18} (choose up to 2 options for SW/FS and 1 option for SOLA) Specify NA for Wall Wash		to 2 options for SW/FS and 1 option TLMP - Trimless for Wall Wash TLMP - Trimless drywall mudplate (choo Speci		FTMW - Textured matte white FTMB - Textured matte	FTMW - Textured matte white FTMB - Textured matte black FSPC - Specular	WET ¹⁹ - Wet location NA - None
LSDL - Soft diffused let LFDL - Frosted diffused LS - Linear spread NA - None 7 Separate codes with a "+" specified, e.g. LSDL+LS. 10 LSDL and LFDL cannot be	ns, Solite m	illwork	SDL - Soft diffused lens, Solite FDL - Frosted diffused lens CL - Clear lens NOL - No lens WW - Wall wash diffuser	black FSPC - Specular FSSPC - Semi-specular FCHP - Champagne CF# - Custom finish, specify RAL#	FSSPC - Semi-specular FCHP - Champagne CF# - Custom finish, specify RAL# NA - Not applicable	Must be specified with the bevel (AE2MSRB or AE2MSRAB), flanged trim (TRM), and either SDL, FDL, or CL lens options.

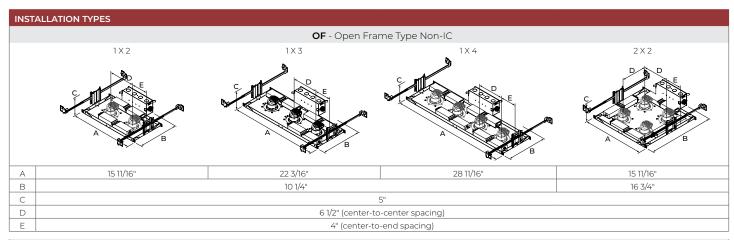
^{*} LSDL or LFDL at light element cannot be combined with SDL or FDL at baffle.

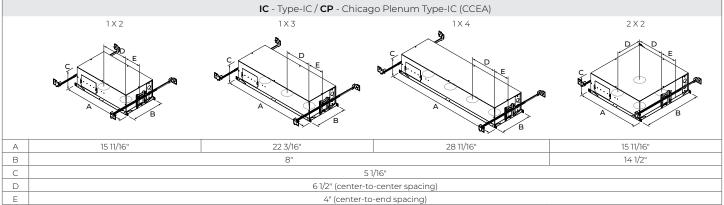




AERA 2" MULTI-APERTURE **Lumenwerx** SQUARE RECESSED

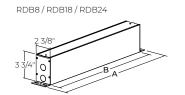
Housing

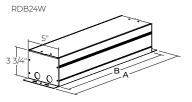




⁻ For OF, IC, and CP installation types with remote dimming, a remote driver box is provided.

REMOTE DRIVER BOX

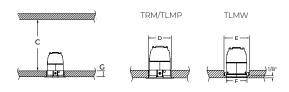




	RDB8	RDB18	RDB24	RDB24W
Α	10"	20"	26"	26"
В	8"	18"	24"	24"
DRIVER	RDI - 1% 0-10V RELV - ELV 120V RTRI - TRIAC 120V	RLDE1 - Lutron Hi-lume 1% Eco RDA - DALI RELD1 - eldoLED 1% ECOdrive 0-10V	Emergency battery (+EB) with the following driver options. RD1+EB - 1% 0-10V RELV+EB - ELV 120V	Emergency battery (+EB) with the following driver options. RLDE1+EB - Lutron Hi- lume 1% Eco
	SOLA RSD1 - Single 0-10V input RSELV - ELV 120V RSTRI - TRIAC 120V	RELDO - eldoLED 0.1% SOLOdrive 0-10V	RTRI+EB - TRIAC 120V	RDA+EB - DALI RELD1+EB - eldoLED 1% ECOdrive 0-10V RELD0+EB - eldoLED 0.1% SOLOdrive 0-10V

⁻ Multiple remote driver boxes may be required for multiple light modules.

PLENUM CLEARANCE & CUT-OUT DIMENSIONS



	PLENUM CLEARANCE HEIGHT								
	REMOTE & INTEGRAL								
	OF	IC	СР						
С	5"	5 1/	16"						

		CUT-OUT DIMENSIONS							
D	TRM/TLMP	2 1/2" × 2 1/2"							
E	T1 1 4147	2 1/2" × 2 1/2"							
F	TLMW	2 1/16" x 2 1/16" with 1/8" lip							

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

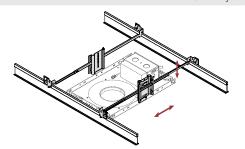




Housing

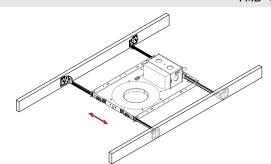
MOUNTING OPTIONS

ASB - Adjustable Standard Bar Hangers



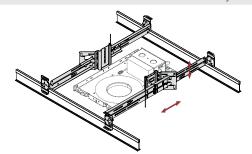
Adjustable Standard Bar hangers can be used in both commercial and residential applications and are adjustable to various heights in both Grid Ceiling and Drywall mounting. ASB hangers are less rigid and versatile than ACB hangers.

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.

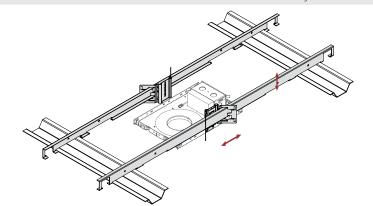
ACB - Adjustable Commercial Bar Hangers



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



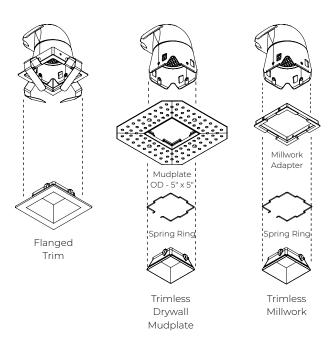
Adjustable Hat Channel bars can be used in both commercial and residential applications and come with a butterfly clip to adjust to various heights. AHC bars can be hung downward by 90 degrees in vertical position, and once wired, can be shifted onto the horizontal mounting plane. AHC bars are suitable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



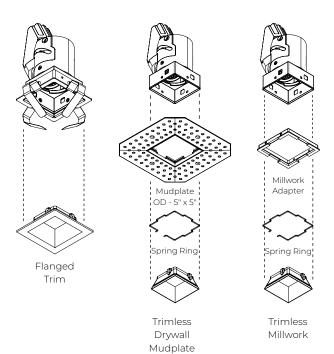


Light & Baffle

RECESSED



RECESSED ADJUSTABLE

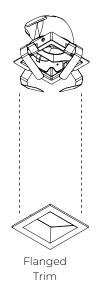


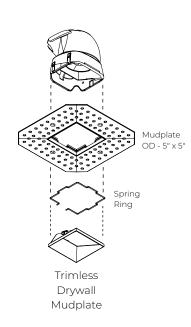
Ве	evel
TRM Flanged Trim	TLMP/TLMW Trimless Drywall Mudplate /Trimless Millwork
Baffle finish Trim flange finish	
2 13/16" 1 3/8" Lens 1 3/8"	2" 1 3/8"
7/8" Cut-off 7/10 / Shielding	7/8" Cut-off 71° Shielding

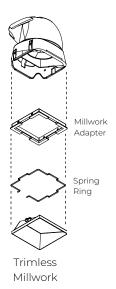


Light & Baffle

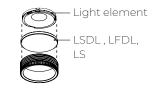
RECESSED WALL WASH

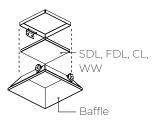


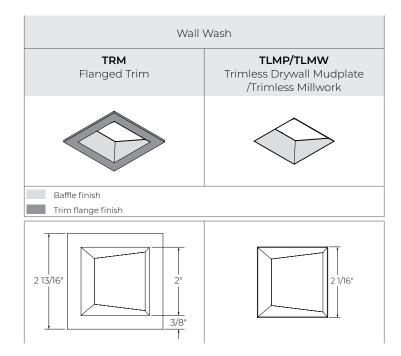




LENS AND ACCESSORIES

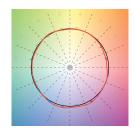






Color Quality

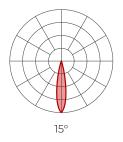
TM-30 R₁ 91 TM-30 R₉ 100 CRI 90 R9 > 50

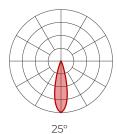


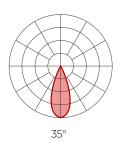
Photometrics

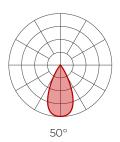
RECESSED - STATIC WHITE

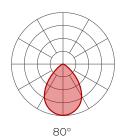
Values calculated based on 3500K, bevel baffle, and SDL lens option. All values are per light.













Delivered lumens

CRI	90 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°
7 W	611	667	659	632	569	569	470	514	507	487	438	438	654	714	705	676	609	609
10 W	822	898	887	850	765	765	633	691	683	655	589	589	880	961	949	910	819	819

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°
7 W	87	95	94	90	81	81	67	73	72	70	63	63	93	102	101	97	87	87
10 W	82	90	89	85	77	77	63	69	68	65	59	59	88	96	95	91	82	82

MULTIPLIERS

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

BAFFLE STYLE A	BAFFLE STYLE AND COLOR									
Flanged trim	1									
Trimless	1									
Bevel	1									
Wet bevel	1									
White	1									
Black	1									
	'									

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

ACCESSORIES * (At light eler	nent)
LSDL - Soft diffused lens, Solite	1
LFDL - Frosted lens	0.8
LS - Linear spread	0.84

^{*} 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



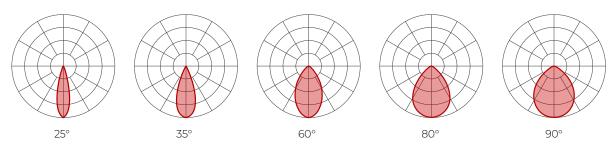




Photometrics

RECESSED - SOLA

Values calculated based on bevel baffle and SDL lens option. All values are per light.



SOLA

ВЕАМ		25°		35°		60°		80°		90°	
		lm	lm/W								
10 W	3000K	495	50	525	53	485	49	415	42	380	38
10 00	2700K	495	50	525	53	485	49	415	42	380	38

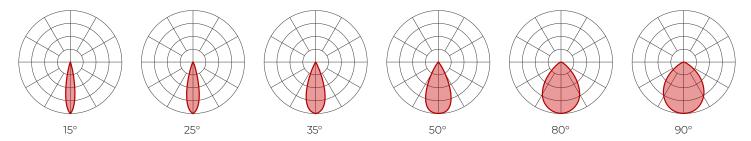
MULTIPLIERS

BAFFLE STYLE A	ND COLOR	LENS * (At baffle)		ACCESSORIES * (At light element)						
Flanged trim	1	SDL - Soft diffused lens, Solite	1	LSDL - Soft diffused lens, Solite 1						
Trimless	1	FDL - Frosted lens	0.8	LFDL - Frosted lens 0.8						
Bevel	1	CL - Clear lens	1.1	LS - Linear spread 0.84						
Wet bevel	1	NOL - No lens	1.1							
White	1	* When more than one lens or ac	,	•						
Black	1	multiply together the value of e_i e.g. NOL + LSDL = 1.1 x 1 = 1.1	ach lens and/or	accessory.						

Photometrics

RECESSED ADJUSTABLE - STATIC WHITE

Values calculated based on 3500K, bevel baffle, and SDL lens option. All values are per light.



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°
7 W	479	523	516	495	446	446	369	403	397	381	343	343	513	560	552	530	477	477
10 W	629	688	679	651	586	586	484	530	523	501	451	451	673	736	727	697	627	627

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°
7 W	68	75	74	71	64	64	53	58	57	54	49	49	73	80	79	76	68	68
10 W	63	69	68	65	59	59	48	53	52	50	45	45	67	74	73	70	63	63

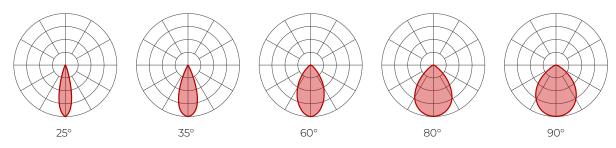
MULTIPLIERS

ССТ	BAFFLE STYLE AND COLOR 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	Bevel	1	CL - Clear lens	1.1	LS - Linear spread	0.84	
4000K	1.05	Wet bevel	1	NOL - No lens	1.1			
		White	1	* When more than one lens or acc	- '			
		Black	1	multiply together the value of ea e.g. NOL + LSDL + LS = 1.1 x 1 x 0.8		cessory.		

Photometrics

RECESSED ADJUSTABLE - SOLA

Values calculated based on bevel baffle and SDL lens option. All values are per light.



SOLA

ВЕАМ		25°		35°		60°		80°		90°	
		lm	lm/W								
10 W	3000K	495	50	525	53	485	49	415	42	380	38
10 00	2700K	495	50	525	53	485	49	415	42	380	38

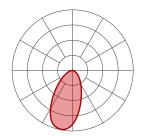
MULTIPLIERS

BAFFLE STYLE A	ND COLOR	LENS * (At baffle)		ACCESSORIES * (At light element)						
Flanged trim	1	SDL - Soft diffused lens, Solite	1	LSDL - Soft diffused lens, Solite 1						
Trimless	1	FDL - Frosted lens	0.8	LFDL - Frosted lens 0.8						
Bevel	1	CL - Clear lens	1.1	LS - Linear spread 0.84						
Wet bevel	1	NOL - No lens	1.1							
White	1	* When more than one lens or ac	J .	•						
Black	1	multiply together the value of e e.g. NOL + LSDL = 1.1 x 1 = 1.1	multiply together the value of each lens and/or accessory. e.g. NOL + LSDL = $1.1 \times 1 = 1.1$							

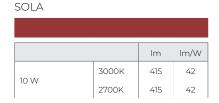
Photometrics

RECESSED WALL WASH

Values calculated with white wall wash baffle, and based on 3500K for static white. All values are per light.



STATIC WHITE									
CRI	90 CRI			95 CRI			80 CRI		
	lm	lm/W		lm	lm/W		lm	lm/W	
7 W	387	55		298	43		414	59	
10 W	521	52		401	40		557	56	



MULTIPLIERS

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

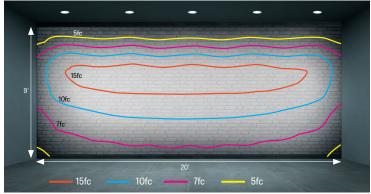
сст						
STATIC WHITE						
2700K	0.9					
3000K	0.95					
3500K	1					
4000K	1.05					

BAFFLE STYLE AND COLOR						
Flanged trim	1					
Trimless	1					
White	1					
Black	1					

UNIFORMITY

Values calculated based on 3500K and white wall wash baffle.

24" from Wall - 36" Spacing



Foot-candles

FC ON WALL		24" FROM WALL - 24" SPACING			24" FROM WA	ALL - 36" SPACII	NG	24" FROM WALL - 48" SPACING			
		90 CRI	95 CRI	80 CRI	90 CRI	95 CRI	80 CRI	90 CRI	95 CRI	80 CRI	
	9'	4	3	5	3	2	3	2	2	2	
90 R	8'	16	12	17	10	7	10	8	6	8	
권	7'	22	17	24	14	11	15	11	8	11	
	6'	21	16	22	13	10	14	10	8	11	
FINISHED	5'	16	13	18	11	8	12	8	6	9	
	4'	13	10	14	9	7	9	7	5	7	
\	3'	10	8	11	7	5	7	5	4	6	
ABO	2'	9	7	9	6	5	6	5	3	5	
	1'	8	6	8	5	4	6	4	3	4	



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.

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

Emergency battery options: Remotely-installed, long-life, high-temperature, maintenance-free, Bodine Lithium-lon 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

Adjustability: Hot aiming, 355° rotation and 35° vertical tilt with shift to ensure beam stays centered (Recessed Adjustable only). **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: Cold-forged 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	Type-IC / Chicago Plenum
1 X 2	8.2 lbs - 3.7 kg	10.2 lbs - 4.6 kg
1 X 3	12.4 lbs - 5.6 kg	14.4 lbs - 6.5 kg
1 X 4	16.4 lbs - 7.4 kg	18.6 lbs - 8.4 kg
2 X 2	18.2 lbs - 8.3 kg	20.2 lbs - 9.2 kg







AERA 2" MULTI-APERTURE **Lumenwerx** SQUARE RECESSED

LENS AND ACCESSORIES

Recessed / Recessed adjustable









Soft diffused Frosted

Clear lens lens, Solite diffused lens

Recessed wall wash



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 marguees 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 or CP 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.

