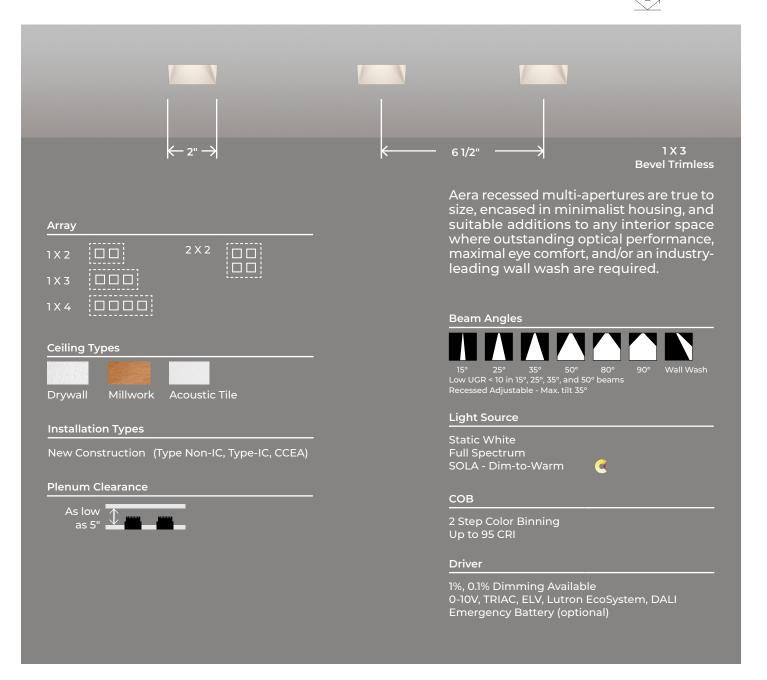
AERA 2" MULTI-APERTURE **Zumenwerx** SQUARE RECESSED



(**I**P44



Aera Family (Refer to other spec sheets) Downlight



























4" Seal Surface

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

Round / Square

Recessed Wall Wash

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

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Recessed Wall Wash

4" Seal Pendant Pendant Asymmetric Wall Asymmetric Pendant Wall Wash

4" Seal Wall

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

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

Type:

Order Guide

1 - Housing (Fxample: AF2MSR-1X2M-TRM-OF-ASB)

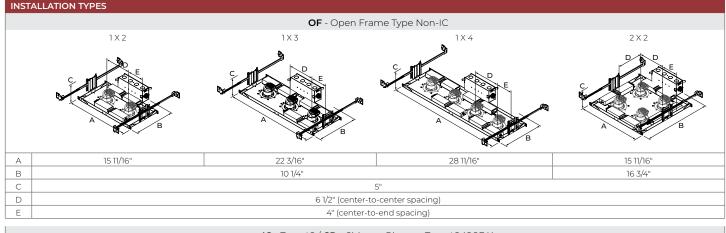
LUMINAIRE ID ¹		ARRAY	TRIM ST	YLE	INST	ALLATION TYPE		MOUNTING OPTION ³					
AE2MSR													
AE2MSR - Aera 2" Mul aperture Square Rece ¹ Round recessed also avail Consult other spec sheet.	ssed	1X2M - 1 X 2 1X3M - 1 X 3 1X4M - 1 X 4 2X2M - 2 X 2	TLMP - T	anged trim rimless drywal Trimless millwa	I mudplate IC ² - ork CP ² -	Open Frame Type No Type-IC - Chicago Plenum Typ vailable with 10 W output	be-IC (CCEA)	AHC - Adjustable hat NA - None	ars nmercial bar hangers channel bars				
								³ See page 4 for more deta	ails.				
				DEG-2STP-9)CRI-27K-120V-7W-D1-	LSDL+LS-TRM-CL-	FTMW-FTMW	'-NA)					
MODULE (Specify o	raer coo	de for each mo	baule)					1X2 M	M2 2×2 M1 M M3 M M2 M3				
M4								1X4 MI	M2 M3 M4				
LUMINAIRE ID		LIGHT SOUR		BEAM Specify WW for \	Nall Wash	COLOR QUALITY	CRI	COLOR TEMP.	VOLTAGE				
Recessed Bevel AE2MSRAB - Aera 2" S Recessed Adjustable E AE2MSRWWB - Aera	2MSRB - Aera 2" Square SW - Static white 15DEG 2mSRAB - Aera 2" Square FS - Full spectrum 15DEG 2mSRAB - Aera 2" Square SW - Static white 15DEG 2mSRAWWB - Aera 2" SW - Static white 15DEG 1 are Recessed Wall Wash SW - Static white 15DEG				Varrow spot pot arrow flood Vide flood /ery wide flood Open flood	2STP ⁵ - 2 Step MacAdam Ellipse 3STP - 3 Step MacAdam Ellipse ⁵ Not available with full spectrum.	90CRI ⁶ - 90 CF 95CRI - 95 CRI 80CRI ⁶ - 80 CF ⁶ Not available wit full spectrum.	30K - 3000K 35K - 3500K 40K - 4000K	120V - 120V 277V - 277V UNV - 120V-277V 347V ⁷ - 347V ⁷ Available with RDI driver onl Please consul				
	SOLA - Dim-to-warm single channel control 80DEG - 35 60DEG - 60 80DEG - 90 90DEG - 90			25DEG - 25° S 35DEG - 35° N 60DEG - 60° V	arrow flood Nide flood /ery wide flood Dpen flood	3STP - 3 Step MacAdam Ellipse	90CRI - 90 CRI	30K18K - 3000K to 27K18K - 2700K to					
WATTAGE PER LIGH	HT 8				DIMMING 10, 11								
RECESSED 7W - 7 W output, up to 714 lm 10W ⁹ - 10 W output, up to 961 lm ⁹ Lumen outputs are reduc ⁹ Not available with IC/CP.	7W - 7 up to 5 10W ⁹ up to 7		up to 414 10W ⁹ - 10 up to 557	V output, 4 Im 0 W output,	INTEGRAL D1 - 1% 0-10V ELV ¹² - ELV 120V TRI ¹² - TRIAC 120V ¹⁰ A driver provided per light. ¹¹ PoE (Power-over-Ethernet) compatible. Consult factory for details. ¹² Available with 120V only.	¹⁴ Available with 120V o ¹⁵ On-site commissioni	li-lume 1% Eco (RDB) are provided. nly. ng is required.	RDA ¹⁵ - DALI RELD1 - eldoLED 1% RELD0 - eldoLED 0. +EB ¹⁶ - Emergency Multiple RDBs may be req the following example: RD1	1% SOLOdrive 0-10V battery uired. See page 3 for detail				
10W ° - 10 W output, up to 525 lm	10W ⁹	- 10 W output, 525 Im	10W ° - 10 up to 415	0 W output, 5 Im	SD1 - Single 0-10V input SELV ¹² - ELV 120V	RSD1 - Single 0-10 RSELV ¹⁴ - ELV 120 DSTD1 ¹⁶ - TD1AC 120	/						
ACCESSORIES * See page 6 for details	1		TRIM S Specify s	STYLE name as Housing	STRI ¹² - TRIAC 120V LENS * See page 6 for details	BAFFLE FINISH	TRIM FL	ANGE FINISH for Bevel Trimless & Trimless	OPTION Specify NA for Wall Wash				
SOLA) Specify NA for Wall Wash LSDL - Soft diffused le LFDL - Frosted diffuse LS - Linear spread HEX ¹⁹ - Hex louver NA - None "Separate codes with a "+" e.g. LSDL+LS.	se up to 2 options for SW/FS and 1 option for TLMP - Trimlet y NA for Wall Wash drywall mudpl - Soft diffused lens, Solite TLMW - Trimlet - Frosted diffused lens inear spread 19 - Hex louver None arate codes with a "+" if more than one is specified, SDL+LS. SDL+LS. L and LFDL cannot be combined. LS and HEX TLMP - Trimlet		Trimless mudplate - Trimless	At baffle (choose l option) Specify WW for Wall Wash SDL - Soft diffused lens, Solite FDL - Frosted diffused lens CL - Clear lens NOL - No lens WW - Wall wash diffuse	FSPC - Specular FSSPC - Semi- specular FCHP - Champag CF# - Custom fir specify PAI #	FTMB - T FSPC - S FSPC - S FSPC - C FCHP - C CF# - Cu RAL# NA - Not	Textured matte white fextured matte black	WET ²⁰ - Wet locatio NA - None ²⁰ Must be specified with the bevel (AE2MSRB or AE2MSRAB), flanged trim (TRM), and either SDL, FDL, or CL lens options.					
		otions.					1						

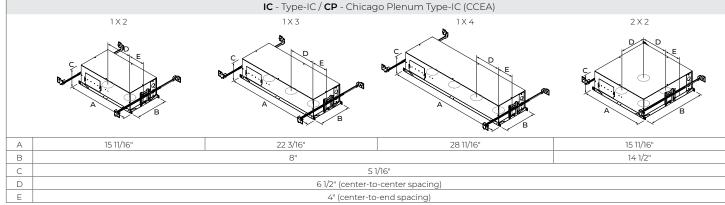


product specifications without notification. AERA2-MULTI-APERTURE-SQUARE-SPEC-REV6 April 22, 2024



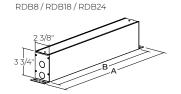
Housing

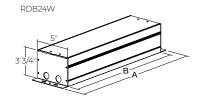




- For OF, IC, and CP installation types with remote dimming, a remote driver box is provided.

REMOTE DRIVER BOX



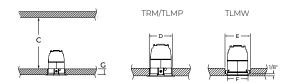


	RDB8	RDB18	RDB24	RDB24W
А	10"	20"	26"	26"
в	8"	18"	24"	24"
DRIVER	RDI - 1% 0-10V RELV - ELV 120V RTRI - TRIAC 120V SOLA RSDI - Single 0-10V input RSELV - ELV 120V RSTRI - TRIAC 120V	RLDE1 - Lutron Hi-lume 1% Eco RDA - DALI RELD1 - eldoLED 1% ECOdrive 0-10V RELD0 - eldoLED 0.1% SOLOdrive 0-10V	Emergency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

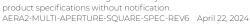
- Multiple remote driver boxes may be required for multiple light modules.



PLENUM CLEARANCE & CUT-OUT DIMENSIONS



		PLEN	IUM CLEARANCE HE	IGHT											
		F	REMOTE & INTEGRAI	L											
	OF		IC	СР											
с	5"		5 1/	16"											
		с	UT-OUT DIMENSION	IS											
D	TRM/TLMP	TRM/TLMP 2 1/2" × 2 1/2"													
Е	TLMW		2 1/2" × 2 1/2"												
F	ILMIV		2 1/16" x 2 1/16" wit	:h 1/8" lip											
		ΜΔΧΙΙ		NESS											
G	TRM/TLMP		ייך												
1	TLMW		5/8"												

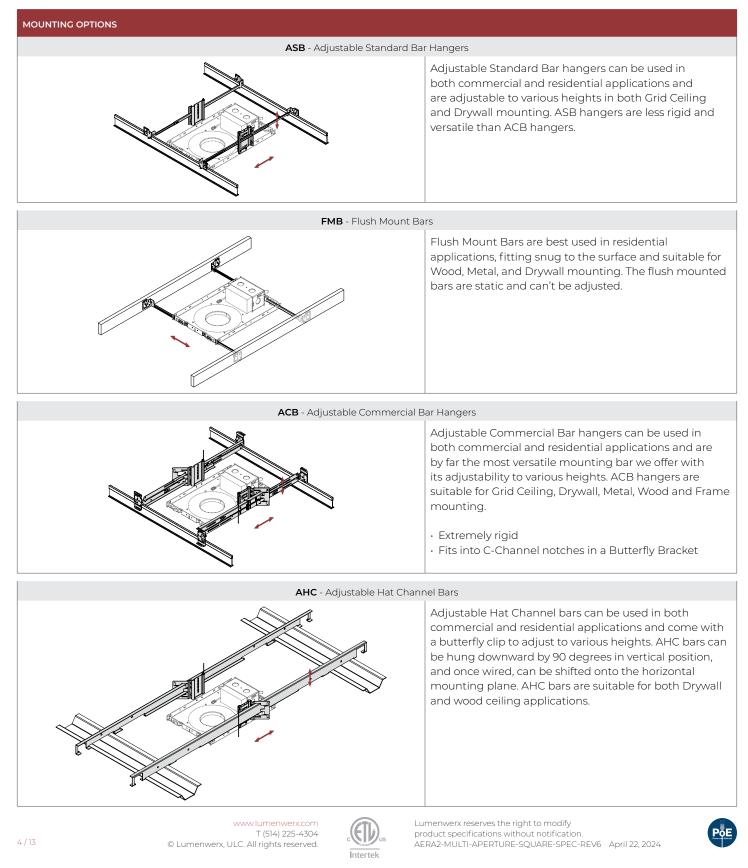


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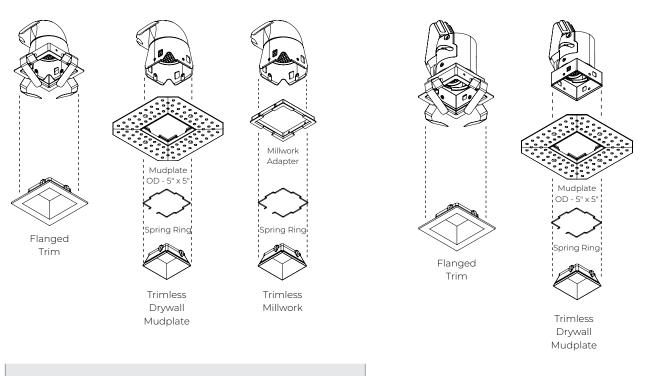
Housing

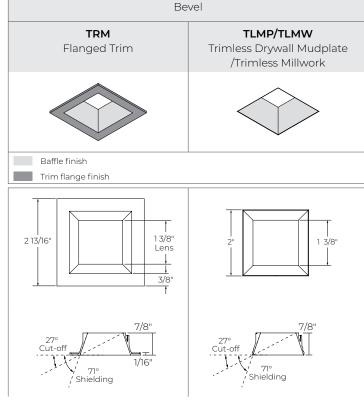


RECESSED ADJUSTABLE

Light & Baffle

RECESSED





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Millwork

Adapter

Spring Ring

Trimless

Millwork

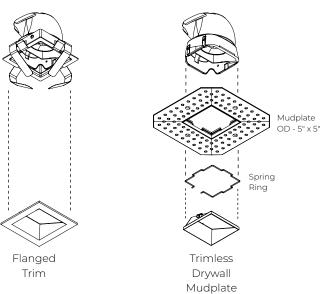
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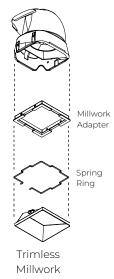
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Intertek

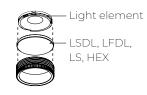
Light & Baffle

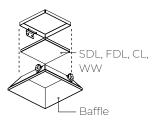
RECESSED WALL WASH





LENS AND ACCESSORIES





Wall	Wash
TRM Flanged Trim	TLMP/TLMW Trimless Drywall Mudplate /Trimless Millwork
Baffle finish	
Trim flange finish	
	2 1/16"







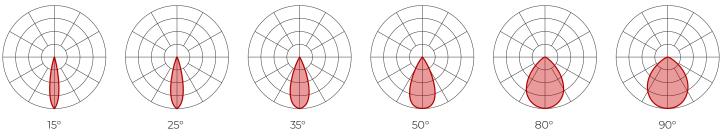
AERA 2" MULTI-APERTURE *Lumenwerx* SQUARE RECESSED

Color Quality

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					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

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

ССТ		BAFFLE STYLE A	ND 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	HEX - Hex louver	0.86			
		White	1	* When more than one lens or acc						
		Black 1		e.g. NOL + LSDL + LS = 1.1 x 1 x 0.8		cessory.				

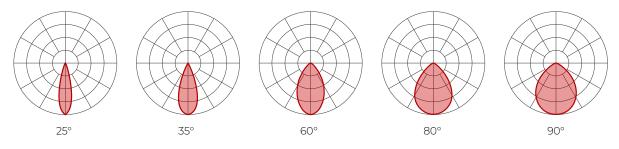




Photometrics

RECESSED - SOLA

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



SOLA

BEAM	BEAM		25°		5°	6	0°	8	0°	90°		
		lm	lm/W									
10 W	3000K	495	50	525	53	485	49	415	42	380	38	
	2700K	495	50	525	53	485	49	415	42	380	38	

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.

BAFFLE STYLE A	ND COLOR	LENS * (At baffle)		ACCESSORIES * (At light eler	ment)
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	HEX - Hex louver	0.86
White	1	* When more than one lens or ac	5 1		
Black	1	multiply together the value of e e.g. NOL + LSDL = 1.1 x 1 = 1.1	each lens and/or a	ccessory.	

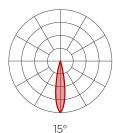


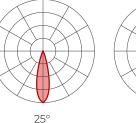


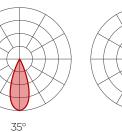
Photometrics

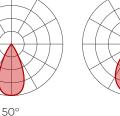
RECESSED ADJUSTABLE - STATIC WHITE

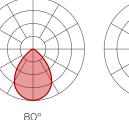
Values calculated based on 3500K, bevel baffle, and SDL lens option. All values are per light.











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°	
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

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

сст		BAFFLE STYLE A	ND COLOR	LENS * (At baffle)		5 * (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	HEX - Hex louver	0.86	
White		White	1	* When more than one lens or accessory is specified,				
		Black	1	multiply together the value of ea e.g. NOL + LSDL + LS = 1.1 x 1 x 0.8		cessory.		



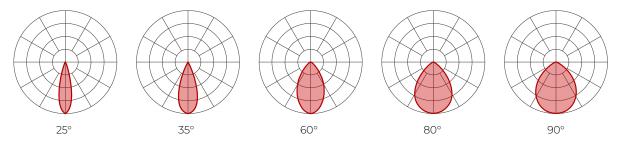




Photometrics

RECESSED ADJUSTABLE - SOLA

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



SOLA

BEAM		2	5°	3	5°	6	0°	8	0°	9	0°
		lm	lm/W								
10 W	3000K	495	50	525	53	485	49	415	42	380	38
	2700K	495	50	525	53	485	49	415	42	380	38

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.

BAFFLE STYLE AND 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		HEX - Hex louver	0.86		
White	1	* When more than one lens or accessory is specified,						
Black	1	multiply together the value of each lens and/or accessory. e.g. NOL + LSDL = 1.1 x 1 = 1.1						

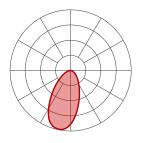




Photometrics

RECESSED WALL WASH

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



STATIC WHITE							SOLA			
CRI	90	CRI	95	CRI	80	CRI				
	Im	lm/W	Im	lm/W	lm	lm/W			Im	lm/W
7 W	387	55	298	43	414	59	10 W	3000K	415	42
10 W	521	52	401	40	557	56		2700K	415	42

MULTIPLIERS

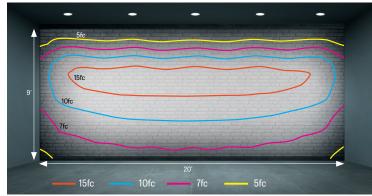
Please follow the multiplier tables to ensure correct lumen value. CCT and baffle colors will change the lumen value.

сст		BAFFLE STYLE AND	COLOR
STATIC \	NHITE	Flanged trim	1
2700K	0.9	Trimless	1
3000K	0.95	White Black	1
3500K	1	DIACK	
4000K	1.05		

UNIFORMITY

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

24" from Wall - 36" Spacing



Foot-candles

FC O	N WALL	24" FROM WALL - 24" SPACING		24" FROM WA	ALL - 36" SPACIN	١G	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
OOR	8'	16	12	17	10	7	10	8	6	8
FLO	7'	22	17	24	14	11	15	11	8	11
B	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
Ň	3'	10	8	11	7	5	7	5	4	6
ABOVE	2'	9	7	9	6	5	6	5	3	5
	ין	8	6	8	5	4	6	4	3	4

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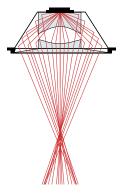


AERA 2" MULTI-APERTURE **Zumenwerx** SQUARE RECESSED

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.



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, hightemperature, 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

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 **Zumenwerx** SQUARE RECESSED

LENS AND ACCESSORIES

Recessed / Recessed adjustable











Recessed wall wash



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. Declare: LBC Red List Approved

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.



T (514) 225-4304

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