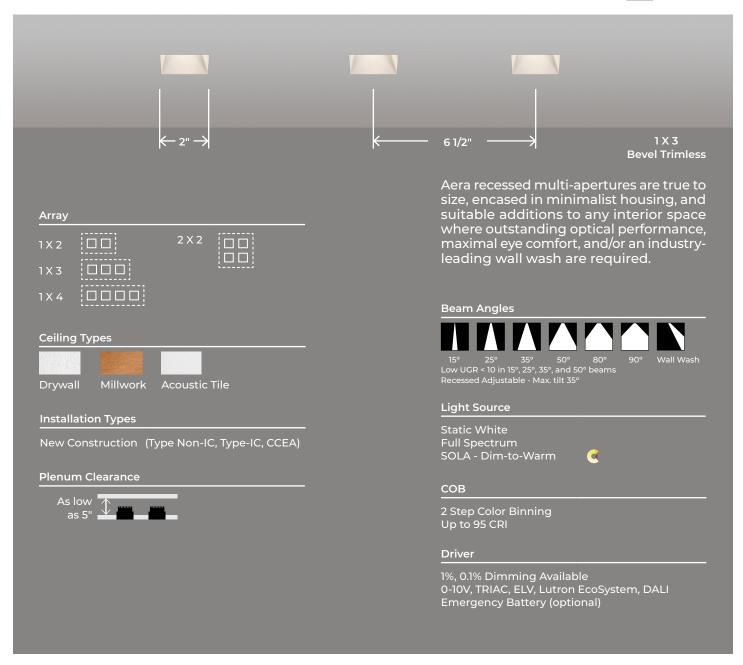
AERA 2" MULTI-APERTURE **Lumenwerx** SQUARE RECESSED









Aera Family (Refer to other spec sheets) Downlight



Round / Square Recessed Adjustable Recessed



Round / Square Recessed Wall Wash









Recessed Wall Wash

Cylinder



2"/3"/4"/5" Pendant



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



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







Pendant Wall Wash



AERA 2" MULTI-APERTURE **Lumenwerx**

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\sim $($ $)$ $ $ $ $ $ $ $ $ $ $ $ $ $ $	
	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.

2 - Module (Fxample: AE2MSRB-SW-15DEG-2STP-90CRI-27K-120V-7W-D1-LSDL+LS-TRM-CL-FTMW-FTMW-NA)

	(Example://LEZI-IONE/OVY	10000 2011 0	0011 271 120 V 7 V B1 20B2 20 11 (11 02 1 11 11 V 1 11 11 V 1 V)	_	
MODULE (Specify orc	der code for each module)			1 X 2	M1 M2 2 X 2 M1 M2
MI					M3 M4
M2				1 X 3	M1 M2 M3
M3					ld
M4				1 X 4	M1 M2 M3 M4
LUMINAIDE ID	LIGHT SOURCE	RFΔM	COLOR OLIALITY CRI CO	OR TE	MP VOLTAGE

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 And available for Adjustable models with full spectrum.	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	

		WW - Wall wa	'			
WATTAGE PER LIGH	HT 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 ⁸ Lumen outputs are reduc ⁹ Not available with IC/CP.	7W - 7 W output, up to 560 lm 10W ⁹ - 10 W output, up to 736 lm sed with full spectrum, consu	7W - 7 W output, up to 414 lm 10W ⁹ - 10 W output, up to 557 lm It factory.	D1 - 1% 0-10V ELV ¹² - ELV 120V TRI ¹² - TRIAC 120V ¹⁹ A driver provided per light. ¹¹ PoE (Power-over-Ethernet) compatible. Consult factory for details. ¹² Available with 120V only.	¹⁴ Available with 120V only. ¹⁵ On-site commissioning is requ	% Eco +EB ¹⁶ - Emergency provided. Multiple RDBs may be re	D.1% SOLOdrive 0-10V y battery equired. See page 3 for details.
10W ⁹ - 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		
ACCESSORIES * See page 6 for details		TRIM STYLE Specify same as Housing	LENS * See page 6 for details		TRIM FLANGE FINISH Specify NA for Bevel Trimless &	OPTION Specify NA for Wall Wash

10W ° - 10 W output, up to 525 lm	10W ° - 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	:	
ACCESSORIES * See page 6 for details		TRIM STYLE Specify same as Housing	LENS * See page 6 for details	BAFFLE FINISH	TRIM FLANGE 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 SOLA) Specify NA for Wall Wash	SW/FS and 1 option for	TRM - Flanged trim TLMP - Trimless drywall mudplate	At baffle (choose 1 option) Specify WW for Wall Wash	FTMW - Textured matte white FTMB - Textured	FTMW - Textured matte white FTMB - Textured matte black FSPC - Specular	WET ²⁰ - Wet location NA - None
LSDL - Soft diffused ler LFDL - Frosted diffused	.,	TLMW - Trimless millwork	SDL - Soft diffused lens, Solite	matte black FSPC - Specular	FSSPC - Semi-specular FCHP - Champagne	²⁰ Must be specified with the bevel (AE2MSRB or AE2MSRAB) flanged

¹⁷ Separate codes with a "+" if more than one is specified, e.a. LSDL+LS. ¹⁸ LSDL and LFDL cannot be combined. LS and HEX cannot be combined.

19 Not available with 80°/90° beam options.

IS - Linear spread

HEX 19 - Hex louver

NA - None

CF# - Custom finish, specify

NA - Not applicable

AE2MSRAB), flanged trim (TRM), and either SDL, FDL, or CL lens

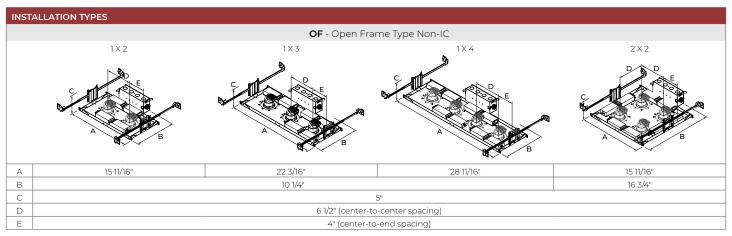
Solite

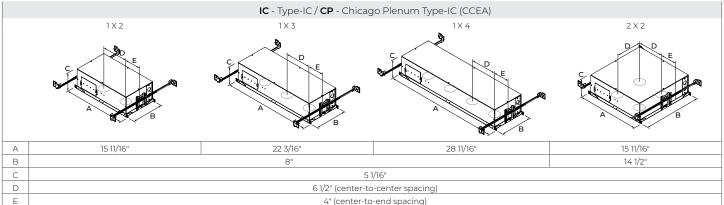
FDL - Frosted diffused lens CL - Clear lens NOL - No lens WW - Wall wash diffuser

FSSPC - Semispecular FCHP - Champagne CF# - Custom finish, specify RAL#

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

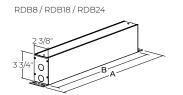
Housing

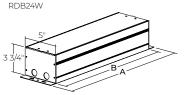




 $[\]hbox{- For OF, IC, and CP installation types with remote dimming, a remote driver box is provided.}\\$

REMOTE DRIVER BOX

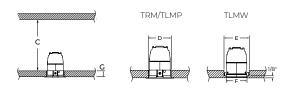




	RDB8	RDB18	RDB24	RDB24W	
Α	10"	20"	26"	26"	
В	8"	18"	24"	24"	
DRIVER	RDI - 1% 0-10V RELV - ELV 120V RTRI - TRIAC 120V	RLDE1 - Lutron Hi-lume 1% Eco RDA - DALI RELD1 - eldoLED 1% ECOdrive 0-10V RELD0 - eldoLED 0.1% SOLOdrive	Emergency battery (+EB) with the following driver options. RDI+EB - 1% 0-10V RELV+EB - ELV 120V RTRI+EB - TRIAC 120V	Emergency battery (+EB) with the following driver options. RLDE1+EB - Lutron Hi- lume 1% Eco RDA+EB - DALI RELD1+EB - eldoLED 1%	
	RSD1 - Single 0-10V input RSELV - ELV 120V RSTRI - TRIAC	0-10V		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 CP				
С	5"	5 1/16"		

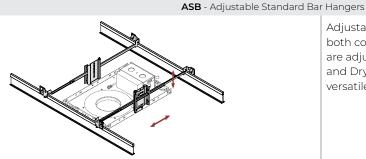
	CUT-OUT DIMENSIONS			
D	TRM/TLMP	2 1/2" × 2 1/2"		
Ε	TI N 4347	2 1/2" × 2 1/2"		
F	TLMW	2 1/16" x 2 1/16" with 1/8" lip		

	N	MAXIMUM CEILING THICKNESS
	TRM/TLMP	7"
G	TLMW	5/8"



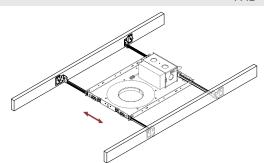
Housing

MOUNTING OPTIONS



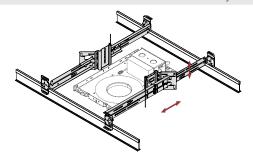
Adjustable Standard Bar hangers can be used in both commercial and residential applications and are adjustable to various heights in both Grid Ceiling and Drywall mounting. ASB hangers are less rigid and versatile than ACB hangers.

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.

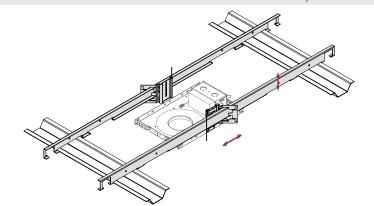
ACB - Adjustable Commercial Bar Hangers



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



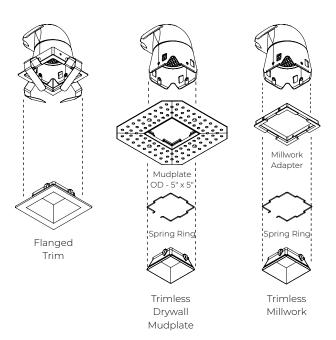
Adjustable Hat Channel bars can be used in both commercial and residential applications and come with a butterfly clip to adjust to various heights. AHC bars can be hung downward by 90 degrees in vertical position, and once wired, can be shifted onto the horizontal mounting plane. AHC bars are suitable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



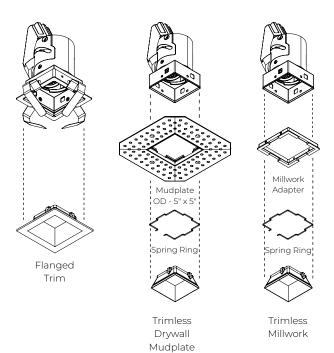


Light & Baffle

RECESSED



RECESSED ADJUSTABLE

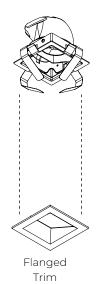


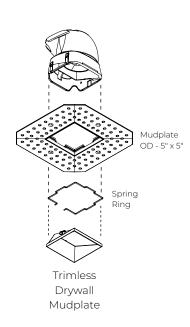
Bevel					
TRM Flanged Trim	TLMP/TLMW Trimless Drywall Mudplate /Trimless Millwork				
Baffle finish Trim flange finish					
2 13/16" 13/8" Lens 3/8"	2" 1 3/8"				
7/8" Cut-off 1/16" Shielding	7/8" Cut-off 71° Shielding				

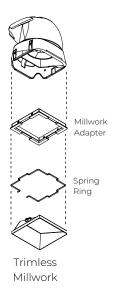


Light & Baffle

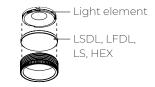
RECESSED WALL WASH

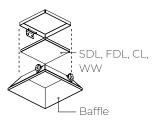


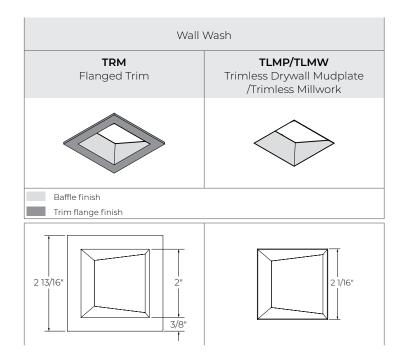




LENS AND ACCESSORIES

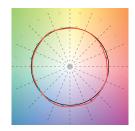






Color Quality

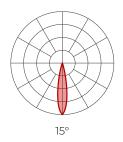
COLOR QUALITY - 3500K TM-30 R_f 91 TM-30 R_g 100 CRI 90 R9 > 50

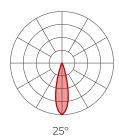


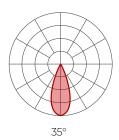
Photometrics

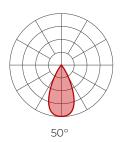
RECESSED - STATIC WHITE

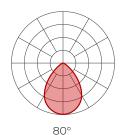
Values calculated based on 3500K, bevel baffle, and SDL lens option. All values are per light.

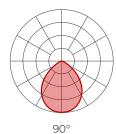












Delivered lumens

CRI	90 CRI						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

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

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
	HEX - Hex louver	0.86
ed,		

^{*} 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



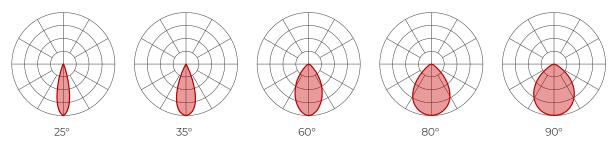




Photometrics

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								
30.14/	3000K	495	50	525	53	485	49	415	42	380	38
10 W	2700K	495	50	525	53	485	49	415	42	380	38

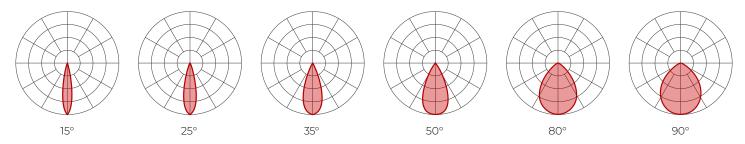
MULTIPLIERS

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	J 1	•	
Black	1	multiply together the value of e e.g. NOL + LSDL = 1.1 x 1 = 1.1	each Iens 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.



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

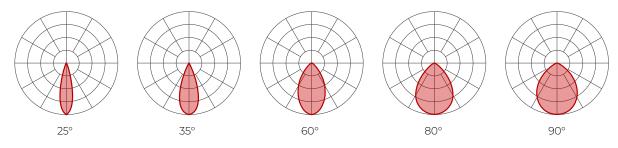
MULTIPLIERS

сст		BAFFLE STYLE A	ND COLOR	LENS * (At baffle)		ACCESSORIES * (At light eler	ment)
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	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 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 = $1.1 \times 1 = 1.1$						

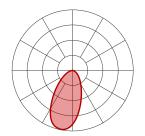


AERA 2" MULTI-APERTURE **Lumenwerx** SQUARE RECESSED

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



SOLA

MULTIPLIERS

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

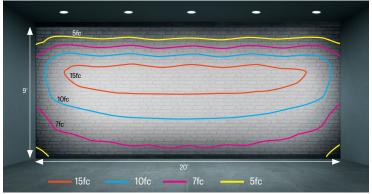
сст					
STATIC V	VHITE				
2700K	0.9				
3000K	0.95				
3500K	1				
4000K	1.05				

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 WALL - 36" SPACING			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	



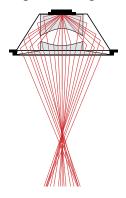


AERA 2" MULTI-APERTURE **Lumenwerx** SQUARE RECESSED

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.



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.

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.

FI FCTRICAL

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				







LENS AND ACCESSORIES

Recessed / Recessed adjustable











Soft diffused F lens, Solite diffu

d Frosted diffused lens

Clear lens Linear spread

Hex louve

Recessed wall wash



Wall wash

ENVIRONMENT

Ambient temperature at fixture location shall be within $0^{\circ}C/32^{\circ}F$ - $25^{\circ}C/77^{\circ}F$, 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 marquees 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.

