

AERA 2" DOWNLIGHT

ROUND RECESSED WALL WASH
NEW CONSTRUCTION & REMODEL



Declare.

Wall Wash Trimless
Drywall Mudplate



Wall Wash
Flanged Trim



Aera recessed downlights are true to size, encased in minimalist housing, and suitable additions to any interior space where outstanding optical performance, maximal eye comfort, and/or an industry-leading wall wash are required.

Ceiling Types



Drywall



Millwork



Wood Slat
Consult factory



Acoustic Tile

Installation Types

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

Plenum Clearance

As low
as 3 3/8"



Beam Angle



Low UGR < 10

Wall Wash

Performance

LUMEN OUTPUT ¹	WATTS	EFFICACY
414 lm	7 W	59 lm/W
557 lm	10 W	56 lm/W

¹ Lumen packages are assuming 3500K, 80+ CRI.

Light Source

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



COB

2 Step Color Binning
Up to 95+ CRI

Drivers / Protocols

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



Smart / Wireless Compatible

Aera 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

Multi-aperture



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



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



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

Cylinder



2" / 3" / 4" / 5" / 6"
4" Seal
Pendant
Pendant Asymmetric
Pendant Wall Wash



2" / 3" / 4" / 5" / 6"
4" Seal
Wall
Wall Asymmetric



2" / 3" / 4" / 5" / 6"
4" Seal
Surface
Surface Asymmetric
Surface Wall Wash

www.lumenwerx.com
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AERA2-DOWNLIGHT-ROUND-RECESSED-WW-SPEC-REV9 April 1, 2026

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Project: _____

Type: _____

Order Guide

1 - Housing (Example: AE2RRWW-TRM-SW-OF-ASB-120V-7W-D1-NA)



For a Title 24 JA8 compliant fixture, see page 3.

LUMINAIRE ID ¹	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTION ⁴
AE2RRWW				
AE2RRWW - Aera 2" Round Recessed Wall Wash ¹ Recessed (fixed) and Recessed Adjustable 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 static white 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 Only available with 7 W or less.	ASB ⁵ - Adjustable standard bar hangers FMB ⁵ - Flush mount bars ACB ⁵ - Adjustable commercial bar hangers AHC ⁵ - Adjustable hat channel bars NA - No bar hangers ⁴ See page 5 for more details. ⁵ Not available with RM installation type.

VOLTAGE	WATTAGE ⁷	DIMMING ⁹			OPTION ¹⁵
					NA
120V - 120V 277V - 277V UNV - 120V-277V 347V ⁶ - 347V ⁶ Only available with RD1 driver. Please consult factory.	7W - 7 W output, up to 414 lm 10W ⁸ - 10 W output, up to 557 lm ⁷ Lumen outputs are reduced with full spectrum, consult factory. ⁸ Not available with IC/CP/AT.	INTEGRAL D1 - 1% 0-10V ELV ¹⁰ - ELV 120V TRI ¹⁰ - TRIAC 120V ⁹ PoE (Power-over-Ethernet) compatible. Consult factory for details. ¹⁰ Only available with 120V.	REMOTE ¹¹ RD1 - 1% 0-10V RELV ¹² - ELV 120V RTRI ¹² - TRIAC 120V RLDE1 ¹³ - Lutron HI-lume 1% Eco RDA ¹³ - DALI ¹¹ A remote driver box is provided. ¹² Only available with 120V. ¹³ On-site commissioning is required. ¹⁴ To specify, add +EB to the selected dimming option, e.g. RD1+EB.	RELD1 - eldoLED 1% ECOdrive 0-10V RELD0 - eldoLED 0.1% SOLOdrive 0-10V +EB ¹⁴ - Emergency battery RD1 - Dual 0-10V input for CCT/intensity RLD2 ¹⁵ - Lutron DALI-2 digital +EB ¹⁴ - Emergency battery	NA - None ¹⁵ To specify a JA8 compliant fixture, see page 3.
	SOLA ⁸ 10W - 10 W output, up to 415 lm DUO ⁸ 8W - 8 W output, up to 370 lm	SOLA SDI - Single 0-10V input SELV ¹⁰ - ELV 120V STRI ¹⁰ - TRIAC 120V	SOLA RSDI - Single 0-10V input RSELV ¹² - ELV 120V RSTRI ¹² - TRIAC 120V	DUO RDMX ¹³ - DMX RDDA ¹³ - DALI DT6 RDDA8 ¹³ - DALI DT8	

2 - Light & Baffle (Example: AE2RRWWB-SW-7W-WW-2STP-90CRI-27K-TRM-WW-FTMW-FTMW-NA)

LUMINAIRE ID	LIGHT SOURCE	WATTAGE ¹⁶	BEAM	COLOR QUALITY	CRI	COLOR TEMP.
	Specify same as Housing	Specify same as Housing				
AE2RRWWB			WW			
AE2RRWWB - Aera 2" Round Recessed Wall Wash SW - Static white FS - Full spectrum static white SOLA - Dim-to-warm single channel control DUO - Tunable white 2-channel control	SW - Static white FS - Full spectrum static white SOLA - Dim-to-warm single channel control DUO - Tunable white 2-channel control	7W - 7 W output, up to 414 lm 10W ¹⁷ - 10 W output, up to 557 lm ¹⁶ Lumen outputs are reduced with full spectrum, consult factory. ¹⁷ Not available with IC/CP/AT.	WW - Wall wash 2STP ¹⁸ - 2 Step MacAdam Ellipse 3STP - 3 Step MacAdam Ellipse ¹⁸ Not available with full spectrum.	2STP ¹⁸ - 2 Step MacAdam Ellipse 3STP - 3 Step MacAdam Ellipse ¹⁸ Not available with full spectrum.	80CRI ¹⁹ - 80+ CRI 90CRI ¹⁹ - 90+ CRI 95CRI - 95+ CRI ¹⁹ Not available with full spectrum.	22K ²⁰ - 2200K 24K ²⁰ - 2400K 27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 50K ²⁰ - 5000K ²⁰ Not available with 95+ CRI.
		SOLA ¹⁷ 10W - 10 W output, up to 415 lm DUO ¹⁷ 8W - 8 W output, up to 370 lm				SOLA 30K18K - 3000K to 1800K 27K18K - 2700K to 1800K DUO 65K27K - 6500K to 2700K 50K27K - 5000K to 2700K

TRIM STYLE	LENS	BAFFLE FINISH	TRIM FLANGE FINISH	OPTION ²²
Specify same as Housing			Specify NA for Trimless	
	WW			NA
TRM - Flanged trim TLMP - Trimless drywall mudplate TLMW ²¹ - Trimless millwork ²¹ For remodel (RM) installation type, TLMW adapter must be installed from above the ceiling or before ceiling is installed.	WW - Wall wash diffuser	FTMW - Matte white FTMB - Matte black FSPC - Satin silver FSSPC - Matte silver FCHP - Champagne FDBZ - Dark bronze FPF - Primer finish CF# - Custom finish, specify RAL#	FTMW - Matte white FTMB - Matte black FSPC - Satin silver FSSPC - Matte silver FCHP - Champagne FDBZ - Dark bronze FPF - Primer finish CF# - Custom finish, specify RAL# NA - Not applicable	NA - None ²² To specify a JA8 compliant fixture, see page 3.

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NEW CONSTRUCTION & REMODEL
Title 24 JA8
Order Guide



Project: _____
Type: _____



1 - Housing (Example: AE2RRWW-TRM-SW-AT-ASB-120V-7W-D1-JA8)

LUMINAIRE ID ¹	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTION ²
AE2RRWW			AT	
AE2RRWW - Aera 2" Round Recessed Wall Wash ¹ Recessed (fixed) and Recessed Adjustable also available. Consult other spec sheets.	TRM - Flanged trim TLMP - Trimless drywall mudplate TLMW - Trimless millwork	SW - Static white SOLA - Dim-to-warm single channel control	AT - Airtight Type-IC	ASB - Adjustable standard bar hangers FMB - Flush mount bars ACB - Adjustable commercial bar hangers AHC - Adjustable hat channel bars NA - None ² See page 5 for more details.

VOLTAGE	WATTAGE	DIMMING		OPTION
				JA8
120V - 120V 277V - 277V	7W - 7 W output, up to 414 lm	INTEGRAL D1 - 1% 0-10V ELV ³ - ELV 120V TRI ³ - TRIAC 120V ³ Only available with 120V.	REMOTE ⁴ RD1 - 1% 0-10V RELV ⁵ - ELV 120V RTRI ⁵ - TRIAC 120V RLDE1 ⁶ - Lutron Hi-lume 1% Eco ⁴ A remote driver box is provided. ⁵ Only available with 120V. ⁶ On-site commissioning is required.	JA8 - JA8 compliant
	8W - 8 W output, up to 468 lm	SD1 - Single 0-10V input SELV ³ - ELV 120V STRI ³ - TRIAC 120V	RSD1 - Single 0-10V input RSELV ⁵ - ELV 120V RSTRI ⁵ - TRIAC 120V	

2 - Light & Baffle (Example: AE2RRWWB-SW-7W-WW-2STP-90CRI-27K-TRM-WW-FTMW-FTMW-JA8)

LUMINAIRE ID	LIGHT SOURCE Specify same as Housing	WATTAGE Specify same as Housing	BEAM	COLOR QUALITY	CRI	COLOR TEMP.
AE2RRWWB			WW		90CRI	
AE2RRWWB - Aera 2" Round Recessed Wall Wash	SW - Static white	7W - 7 W output, up to 414 lm	WW - Wall wash	2STP - 2 Step MacAdam Ellipse 3STP - 3 Step MacAdam Ellipse	90CRI - 90+ CRI	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K
	SOLA - Dim-to-warm single channel control	8W - 8 W output, up to 468 lm		3STP - 3 Step MacAdam Ellipse		SOLA ⁷ - Dim-to-warm single channel control ⁷ 3500K to 2200K

TRIM STYLE Specify same as Housing	LENS	BAFFLE FINISH	TRIM FLANGE FINISH Specify NA for Trimless	OPTION
	WW			JA8
TRM - Flanged trim TLMP - Trimless drywall mudplate TLMW - Trimless millwork	WW - Wall wash diffuser	FTMW - Matte white FTMB - Matte black FSPC - Satin silver FSSPC - Matte silver FCHP - Champagne FDBZ - Dark bronze PPF - Primer finish CF# - Custom finish, specify RAL#	FTMW - Matte white FTMB - Matte black FSPC - Satin silver FSSPC - Matte silver FCHP - Champagne FDBZ - Dark bronze PPF - Primer finish CF# - Custom finish, specify RAL# NA - Not applicable	JA8 - JA8 compliant

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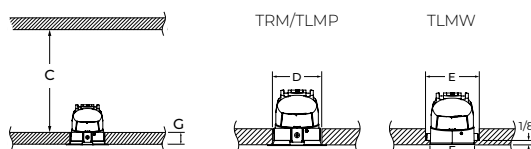


Housing

INSTALLATION TYPES		
OF - Open Frame Type Non-IC	IC - Type-IC	CP - Chicago Plenum Type-IC (CCEA) AT - Airtight Type-IC
RM - Remodel Type Non-IC		
Integral	Remote	

- 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.
- Clearance between sides of luminaire and parts of building must be 1/2" minimum; clearance to insulating materials to be 3" minimum, unless luminaires are IC rated.

PLENUM CLEARANCE & CUT-OUT DIMENSIONS



PLENUM CLEARANCE HEIGHT					
	REMOTE & INTEGRAL			INTEGRAL	REMOTE
	OF	IC	CP/AT	RM	RM
C	5 1/8"	4"	4"	5 1/8"	3 3/8"

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

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

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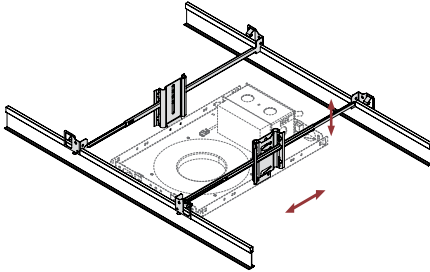
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Housing

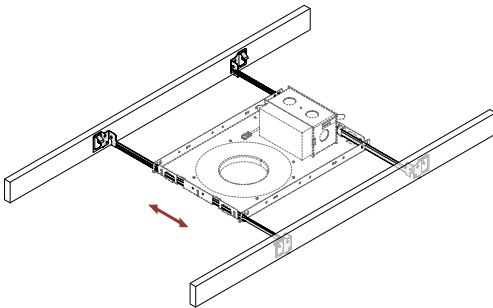
MOUNTING OPTIONS

ASB - Adjustable Standard Bar Hangers



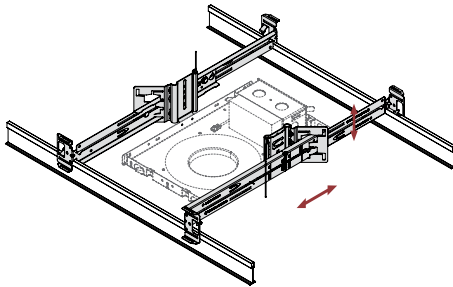
Adjustable Standard Bar hangers can be used in both commercial and residential applications and are adjustable to various heights in both Grid Ceiling and Drywall mounting. ASB hangers are less rigid and versatile than ACB hangers.

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.

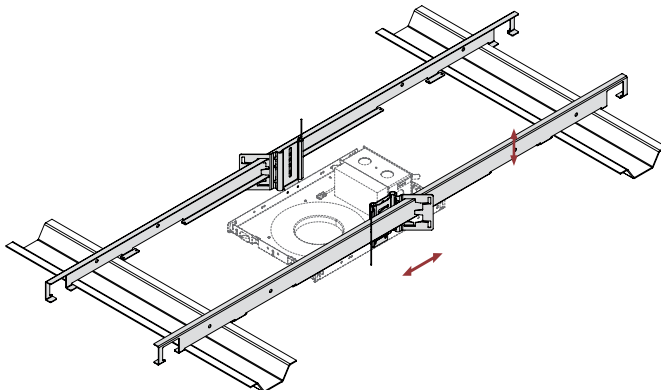
ACB - Adjustable Commercial Bar Hangers



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



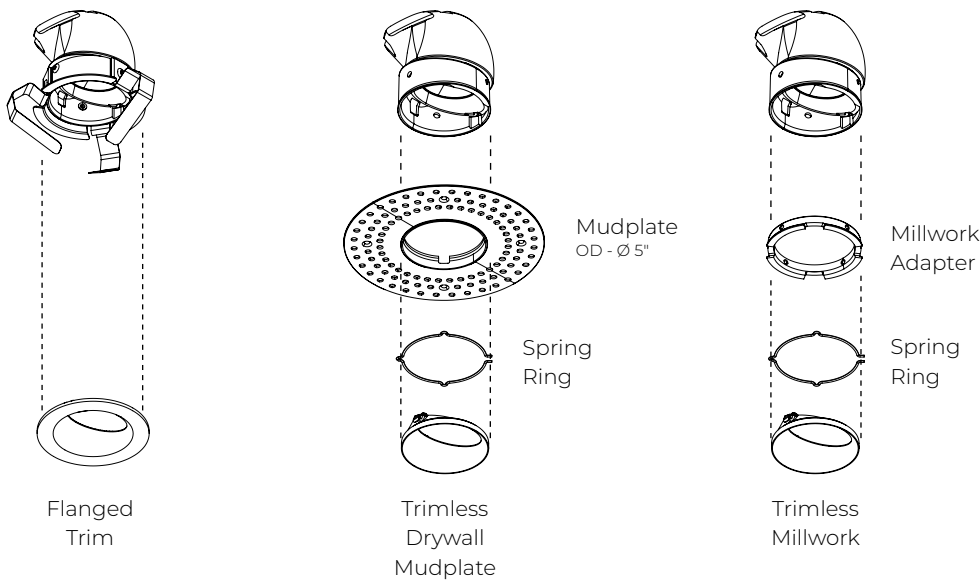
Adjustable Hat Channel bars can be used in both commercial and residential applications and come with a butterfly clip to adjust to various heights. AHC bars can be hung downward by 90 degrees in vertical position, and once wired, can be shifted onto the horizontal mounting plane. AHC bars are suitable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

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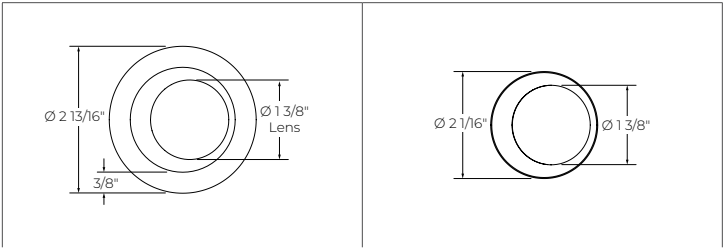


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Light & Baffle



Wall Wash	
TRM Flanged Trim	TLMP/TLMW Trimless Drywall Mudplate /Trimless Millwork
Baffle finish Trim flange finish	

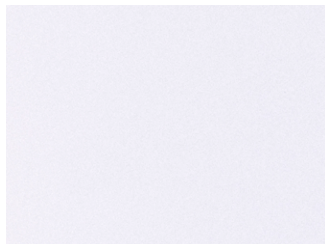


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ROUND RECESSED WALL WASH
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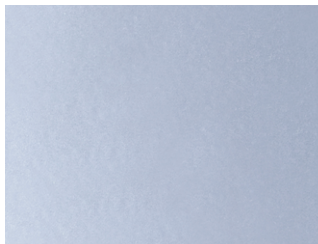
Finishes



FTMW - Matte white



FTMB - Matte black



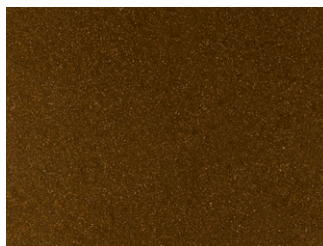
FSPC - Satin silver



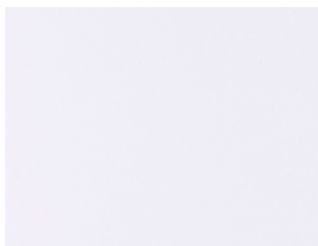
FSSPC - Matte silver



FCHP - Champagne



FDBZ - Dark bronze



FPP - Primer finish

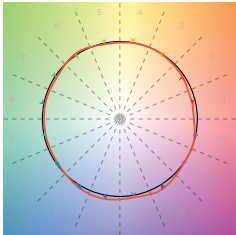
AERA 2" DOWNLIGHT

ROUND RECESSED WALL WASH
NEW CONSTRUCTION & REMODEL



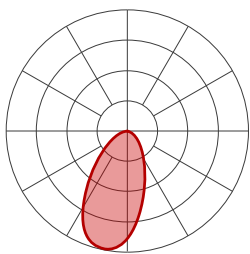
Color Quality

COLOR QUALITY - 3500K	
TM-30 R _r	91
TM-30 R _g	100
CRI	90+
R9	> 50



Photometrics

Values calculated with white wall wash baffle, and based on 3500K for static white.



STATIC WHITE

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

MULTIPLIERS

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

CCT		BAFFLE STYLE AND COLOR	
2200K	0.80	Flanged trim	1
2400K	0.87	Trimless	1
2700K	0.94	White	1
3000K	0.98	Black	1
3500K	1		
4000K	1.05		
5000K	1.05		

For SOLA and DUO, please consult factory.



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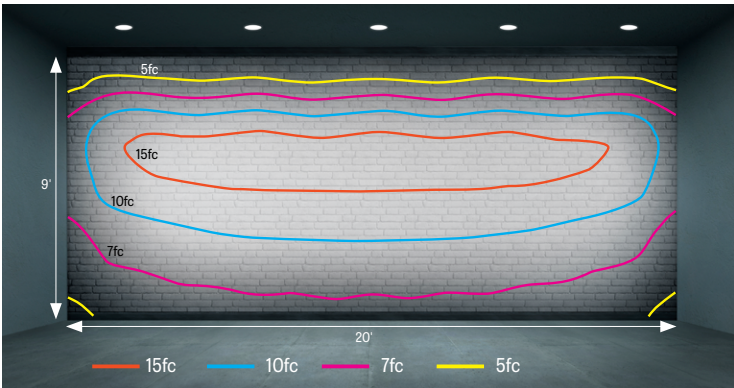


Photometrics

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		
ABOVE FINISHED FLOOR		80+ CRI	90+ CRI	95+ CRI	80+ CRI	90+ CRI	95+ CRI	80+ CRI	90+ CRI	95+ CRI	80+ CRI	90+ CRI	95+ CRI
	9'	5	4	3	3	3	2	2	2	2	2	2	2
	8'	17	16	12	10	10	7	8	8	6	8	8	6
	7'	24	22	17	15	14	11	11	11	8	11	11	8
	6'	22	21	16	14	13	10	11	10	8	10	10	8
	5'	18	16	13	12	11	8	9	8	6	9	8	6
	4'	14	13	10	9	9	7	7	7	5	7	7	5
	3'	11	10	8	7	7	5	6	5	4	6	5	4
	2'	9	9	7	6	6	5	5	5	3	5	5	3
	1'	8	8	6	6	5	4	4	4	3	4	4	3



AERA 2" DOWNLIGHT

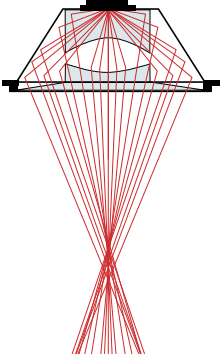
ROUND RECESSED WALL WASH
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Technical Specifications

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 2200K, 2400K, 2700K, 3000K, 3500K, 4000K, and 5000K 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 static white

The full spectrum LED option offers improved color particularly in the cyan region that is beneficial in both healthcare and circadian lighting strategies. 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%.

ELV and TRIAC dimming performance (including minimum dimming percentage) subject to dimmer selection.

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 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 standard, flush mount, adjustable commercial, and adjustable hat channel bar hangers are available as mounting options.

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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: Die-cast aluminum mounted with retaining spring clips

Trim style: Trimmed and trimless with mudplate or millwork adapter

Finish: Matte white, matte black, satin silver, matte silver, champagne, dark bronze, and primer finish. Custom colors also available (provide RAL #). For the primer finish option, fixture must be turned off and the lens masked before applying paint.

WEIGHT

Open frame: 4.0 lbs - 1.8 kg

Type-IC: 6.5 lbs - 2.9 kg

Chicago Plenum: 6.5 lbs - 2.9 kg

Remodel: 2.25 lbs - 1.0 kg

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.

Title 24 JA8: California Building Standards Code

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.