AERA 2" DOWNLIGHT
SQUARE RECESSED

Lumenwerx

5 YEAR WARRANTY

IP44 | JA8 TITLE 24 COMPLIANT WITH | Energy ENERGY STAR | Declare.

Bevel Trimless Drywall Mudplate

Bevel Flanged Trim

← 2" →

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 | 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 Angles

15° | 25° | 35° | 50° | 80° | 90°

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

Performance

LUMEN OUTPUT [1]	WATTS	EFFICACY
705 lm	7 W	101 lm/W
949 lm	10 W	95 lm/W

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

Light Source

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

COB

2 Step Color Binning
Up to 95 CRI

Drivers

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

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"
4" Seal
Pendant
Pendant Asymmetric
Pendant Wall Wash

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

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

www.lumenwerx.com
T (514) 225-4304

ETL LISTED Intertek

Lumenwerx reserves the right to modify product specifications without notification.
AERA2-DOWNLIGHT-SQUARE-RECESSED-SPEC-REV6   April 22, 2024

PoE Powered over Ethernet

AERA 2" DOWNLIGHT
SQUARE RECESSED

Lumenwerx

Project: _____

_____

Type: _____

ENERGY STAR

COMPLIANT WITH JA8 TITLE 24

For an ENERGY STAR® certified fixture, see page 3.
For a Title 24 JA8 compliant fixture, see page 4.

Order Guide

1 - Housing (Example: AE2SR-TRM-SW-OF-ASB-120V-7W-D1-NA)

LUMINAIRE ID [1]	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTION [4]
AE2SR				
AE2SR - Aera 2" Square Recessed [1] Recessed Adjustable and Recessed Wall Wash 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 **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] Not available with 8 W output and higher.	**ASB** [5] - Adjustable standard bar hangers **FMB** [5] - Flush mount bars **ACB** [5] - Adjustable commercial bar hangers **AHC** [5] - Adjustable hat channel bars **NA** - None [4] See page 6 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] Available with RD1 driver only. Please consult factory.	**7W** - 7 W output, up to 714 lm **10W** [8] - 10 W output, up to 961 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] Available with 120V only.	**REMOTE** [11] **RD1** - 1% 0-10V **RDA** [13] - DALI **RELV** [12] - ELV 120V **RELD1** - eldoLED 1% ECOdrive 0-10V **RTRI** [12] - TRIAC 120V **RELD0** - eldoLED 0.1% SOLOdrive 0-10V **RLDE1** [13] - Lutron Hi-lume 1% Eco **+EB** [14] - Emergency battery [11] A remote driver box is provided, see page 5 for details. [12] Available with 120V only. [13] On-site commissioning is required. [14] For emergency battery, code will be like the following example: RD1+EB	**NA** - None [15] To specify an ENERGY STAR certified fixture, see page 3. To specify a JA8 compliant fixture, see page 4.

<u>SOLA</u> [8]
10W - 10 W output, up to 525 lm
 	
<u>DUO</u> [8]
8W - 8 W output, up to 500 lm
		<u>SOLA</u>
		SD1 - Single 0-10V input
		SELV [10] - ELV 120V
		STRI [10] - TRIAC 120V
			<u>SOLA</u> <u>DUO</u>
			RSD1 - Single 0-10V input **RDMX** [13] - DMX
			RSELV [12] - ELV 120V **RDDA** [13] - DALI DT6
			RSTRI [12] - TRIAC 120V **RDDA8** [13] - DALI DT8
			   RDD1 - Dual 0-10V input for CCT/intensity
			   RLD2 [13] - Lutron DALI-2 digital	

2 - Light & Baffle (Example: AE2SRB-SW-7W-15DEG-2STP-90CRI-27K-LSDL+LS-TRM-CL-FTMW-FTMW-NA)

LUMINAIRE ID	LIGHT SOURCE Specify same as Housing	WATTAGE [16] Specify same as Housing	BEAM	COLOR QUALITY	CRI	COLOR TEMP.
AE2SRB						
AE2SRB - Aera 2" Square Recessed Bevel	**SW** - Static white **FS** - Full spectrum	**7W** - 7 W output, up to 714 lm **10W** [17] - 10 W output, up to 961 lm [16] Lumen outputs are reduced with full spectrum, consult factory. [17] Not available with IC/CP/AT.	**15DEG** - 15° Narrow spot **25DEG** - 25° Spot **35DEG** - 35° Narrow flood **50DEG** - 50° Wide flood **80DEG** - 80° Very wide flood **90DEG** - 90° Open flood	**2STP** [18] - 2 Step MacAdam Ellipse **3STP** - 3 Step MacAdam Ellipse [18] Not available with full spectrum.	**90CRI** [19] - 90 CRI **95CRI** - 95 CRI **80CRI** [19] - 80 CRI [19] Not available with full spectrum.	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K
	SOLA - Dim-to-warm single channel control **DUO** - Tunable white 2-channel control	<u>SOLA</u> [17] **10W** - 10 W output, up to 525 lm <u>DUO</u> [17] **8W** - 8 W output, up to 500 lm	**25DEG** - 25° Spot **35DEG** - 35° Narrow flood **60DEG** - 60° Wide flood **80DEG** - 80° Very wide flood **90DEG** - 90° Open flood	**3STP** - 3 Step MacAdam Ellipse	**90CRI** - 90 CRI	<u>SOLA</u> **30K18K** - 3000K to 1800K **27K18K** - 2700K to 1800K <u>DUO</u> **65K27K** - 6500K to 2700K **50K27K** - 5000K to 2700K

ACCESSORIES * See page 7 for details	TRIM STYLE Specify same as Housing	LENS * See page 7 for details	BAFFLE FINISH	TRIM FLANGE FINISH Specify NA for Bevel Trimless	OPTION [24]
At light element [20, 21] (choose up to 2 options for SW/FS and 1 option for SOLA/DUO) **LSDL** - Soft diffused lens, Solite **LFDL** - Frosted diffused lens **LS** - Linear spread **HEX** [22] - Hex louver **NA** - None [20] Separate codes with a "+" if more than one is specified, e.g. LSDL+LS. [21] LSDL and LFDL cannot be combined. LS and HEX cannot be combined. [22] Not available with 80°/90° beam options.	**TRM** - Flanged trim **TLMP** - Trimless drywall mudplate **TLMW** [23] - Trimless millwork [23] For remodel (RM) installation type, TLMW adapter must be installed from above the ceiling or before ceiling is installed.	**At baffle** (choose 1 option) **SDL** - Soft diffused lens, Solite **FDL** - Frosted diffused lens **CL** - Clear lens **NOL** - No lens	**FTMW** - Textured matte white **FTMB** - Textured matte black **FSPC** - Specular **FSSPC** - Semi-specular **FCHP** - Champagne **CF#** - Custom finish, specify RAL#	**FTMW** - Textured matte white **FTMB** - Textured matte black **FSPC** - Specular **FSSPC** - Semi-specular **FCHP** - Champagne **CF#** - Custom finish, specify RAL# **NA** - Not applicable	**WET** [25] - Wet location **NA** - None [24] To specify an ENERGY STAR certified fixture, see page 3. To specify a JA8 compliant fixture, see page 4. [25] Must be specified with the 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.

ETL LISTED Intertek

Lumenwerx reserves the right to modify product specifications without notification.
AERA2-DOWNLIGHT-SQUARE-RECESSED-SPEC-REV6   April 22, 2024

PoE

AERA 2" DOWNLIGHT

SQUARE RECESSED
ENERGY STAR

Lumenwerx

Project: _____

_____

Type: _____

ENERGY STAR

Order Guide

1 - Housing (Example: AE2SR-TRM-SW-OF-ASB-120V-7W-D1-ES)

LUMINAIRE ID [1]	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTION [2]
AE2SR		**SW**		
AE2SR - Aera 2" Square Recessed [1] Recessed Adjustable and Recessed Wall Wash also available. Consult other spec sheets.	**TRM** - Flanged trim **TLMP** - Trimless drywall mudplate **TLMW** - Trimless millwork	**SW** - Static white	**OF** - Open Frame Type Non-IC **IC** - Type-IC **RM** - Remodel Type Non-IC **CP** - Chicago Plenum Type-IC (CCEA) **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 6 for more details.

VOLTAGE	WATTAGE	DIMMING		OPTION
	7W			**ES**
120V - 120V **277V** - 277V **UNV** - 120V-277V	**7W** - 7 W output, up to 714 lm	**INTEGRAL** **D1** - 1% 0-10V **ELV** [3] - ELV 120V **TRI** [3] - TRIAC 120V [3] Available with 120V only.	**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, see page 5 for details. [5] Available with 120V only. [6] On-site commissioning is required.	**ES** - ENERGY STAR

2 - Light & Baffle (Example: AE2SRB-SW-7W-15DEG-2STP-90CRI-27K-NA-TRM-SDL-FTMW-FTMW-ES)

LUMINAIRE ID	LIGHT SOURCE Specify same as Housing	WATTAGE Specify same as Housing	BEAM	COLOR QUALITY	CRI	COLOR TEMP.
AE2SRB	**SW**	**7W**		**2STP**		
AE2SRB - Aera 2" Square Recessed Bevel	**SW** - Static white	**7W** - 7 W output, up to 714 lm	**15DEG** - 15° Narrow spot **25DEG** - 25° Spot **35DEG** - 35° Narrow flood **50DEG** - 50° Wide flood	**2STP** - 2 Step MacAdam Ellipse	**90CRI** - 90 CRI **80CRI** - 80 CRI	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K

ACCESSORY	TRIM STYLE Specify same as Housing	LENS See page 7 for details	BAFFLE FINISH	TRIM FLANGE FINISH Specify NA for Bevel Trimless	OPTIONS
NA					**ES**
At light element **NA** - Not applicable	**TRM** - Flanged trim **TLMP** - Trimless drywall mudplate **TLMW** - Trimless millwork	**At baffle** **SDL** - Soft diffused lens, Solite **FDL** - Frosted diffused lens **CL** - Clear lens **NOL** - No lens	**FTMW** - Textured matte white **FTMB** - Textured matte black **FSPC** - Specular **FSSPC** - Semi-specular **FCHP** - Champagne **CF#** - Custom finish, specify RAL#	**FTMW** - Textured matte white **FTMB** - Textured matte black **FSPC** - Specular **FSSPC** - Semi-specular **FCHP** - Champagne **CF#** - Custom finish, specify RAL# **NA** - Not applicable	**ES** - ENERGY STAR **WET** [7,8] - Wet location [7] Must be specified with the flanged trim (TRM), and either SDL, FDL, or CL lens options. [8] To specify the WET option, the code will be ES+WET.

ETL LISTED c us Intertek

AERA 2" DOWNLIGHT

SQUARE RECESSED
Title 24 JA8

Order Guide

Lumenwerx

Project: _____

_____

Type: _____

JA8 TITLE 24 COMPLIANT WITH

1 - Housing (Example: AE2SR-TRM-SW-AT-ASB-120V-7W-D1-JA8)

LUMINAIRE ID [1]	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTION [2]
AE2SR			**AT**	
AE2SR - Aera 2" Square Recessed [1] Recessed Adjustable and Recessed Wall Wash 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 6 for more details.

VOLTAGE	WATTAGE	DIMMING		OPTION
				JA8
120V - 120V **277V** - 277V	**7W** - 7 W output, up to 714 lm	**INTEGRAL** **D1** - 1% 0-10V **ELV** [3] - ELV 120V **TRI** [3] - TRIAC 120V [3] Available with 120V only.	**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, see page 5 for details. [5] Available with 120V only. [6] On-site commissioning is required.	**JA8** - JA8 compliant
	8W - 8 W output, up to 275 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: AE2SRB-SW-7W-15DEG-2STP-90CRI-27K-NA-TRM-SDL-FTMW-FTMW-JA8+WET)

LUMINAIRE ID	LIGHT SOURCE Specify same as Housing	WATTAGE Specify same as Housing	BEAM	COLOR QUALITY	CRI	COLOR TEMP.
AE2SRB					**90CRI**	
AE2SRB - Aera 2" Square Recessed Bevel	**SW** - Static white	**7W** - 7 W output, up to 714 lm	**15DEG** - 15° Narrow spot **25DEG** - 25° Spot **35DEG** - 35° Narrow flood **50DEG** - 50° Wide flood **80DEG** - 80° Very wide flood **90DEG** - 90° Open flood	**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 275 lm	**50DEG** - 50° Wide flood	**3STP** - 3 Step MacAdam Ellipse		**SOLA** [7] - Dim-to-warm single channel control [7] 3500K to 2200K

ACCESSORY * See page 7 for details	TRIM STYLE Specify same as Housing	LENS * See page 7 for details	BAFFLE FINISH	TRIM FLANGE FINISH Specify NA for Bevel Trimless	OPTIONS
					JA8
At light element **LSDL** - Soft diffused lens, Solite **LFDL** - Frosted diffused lens **NA** - None	**TRM** - Flanged trim **TLMP** - Trimless drywall mudplate **TLMW** - Trimless millwork	**At baffle** **SDL** - Soft diffused lens, Solite **FDL** - Frosted diffused lens **CL** - Clear lens **NOL** - No lens	**FTMW** - Textured matte white **FTMB** - Textured matte black **FSPC** - Specular **FSSPC** - Semi-specular **FCHP** - Champagne **CF#** - Custom finish, specify RAL#	**FTMW** - Textured matte white **FTMB** - Textured matte black **FSPC** - Specular **FSSPC** - Semi-specular **FCHP** - Champagne **CF#** - Custom finish, specify RAL# **NA** - Not applicable	**JA8** - JA8 compliant **WET** [8,9] - Wet location [8] Must be specified with the flanged trim (TRM), and either SDL, FDL, or CL lens options. [9] To specify the WET option, the code will be JA8+WET.

* LSDL or LFDL at light element cannot be combined with SDL or FDL at baffle. For SOLA, one of the following lenses must be specified: SDL, FDL, LSDL, or LFDL.
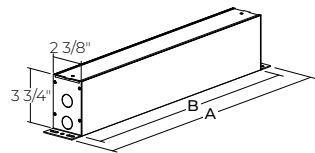
AERA 2" DOWNLIGHT
SQUARE RECESSED

Lumenwerx

Housing

INSTALLATION TYPES		
OF - Open Frame Type Non-IC	**IC** - Type-IC	**CP** - Chicago Plenum Type-IC (CCEA) **AT** - Airtight Type-IC

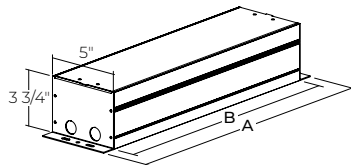| **RM** - Remodel Type Non-IC	
Integral	Remote

REMOTE DRIVER BOX

- 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.

REMOTE DRIVER BOX

RDB8 / RDB18 / RDB24

RDB24W

	RDB8	RDB18	RDB24	RDB24W
A	10"	20"	26"	26"
B	8"	18"	24"	24"
DRIVER	**RD1** - 1% 0-10V **RELV** - ELV 120V **RTRI** - TRIAC 120V	**RLDE1** - Lutron Hi-lume 1% Eco **RDA** - DALI **RELD1** - eldoLED 1% ECOdrive 0-10V **RELD0** - eldoLED 0.1% SOLOdrive 0-10V	Emergency battery (+EB) with the following driver options. **RD1+EB** - 1% 0-10V **RELV+EB** - ELV 120V **RTRI+EB** - TRIAC 120V	Emergency battery (+EB) with the following driver options. **RLDE1+EB** - Lutron Hi-lume 1% Eco **RDA+EB** - DALI **RELD1+EB** - eldoLED 1% ECOdrive 0-10V **RELD0+EB** - eldoLED 0.1% SOLOdrive 0-10V
	SOLA **RSD1** - Single 0-10V input **RSELV** - ELV 120V **RSTRI** - TRIAC 120V		DUO **RDMX** - DMX **RDDA** - DALI DT6 **RDDA8** - DALI DT8 **RDD1** - Dual 0-10V input for CCT/intensity **RLD2** - Lutron DALI-2 digital	

PLENUM CLEARANCE & CUT-OUT DIMENSIONS
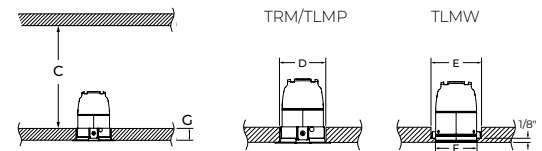
TRM/TLMP

TLMW

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

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

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

ETL LISTED
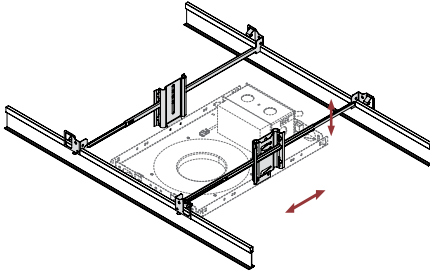Intertek

PoE

AERA 2" DOWNLIGHT
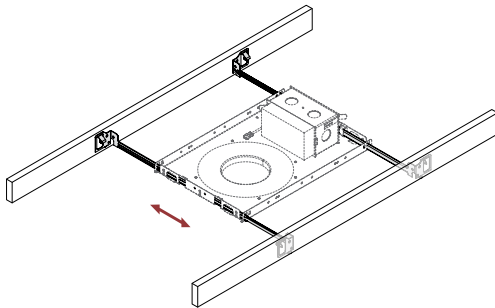## SQUARE RECESSED

Housing

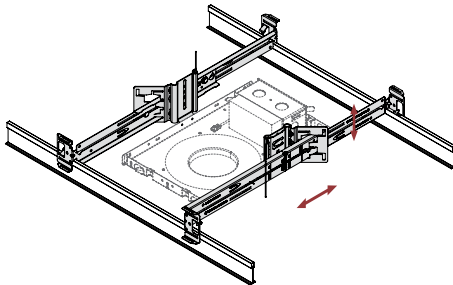| MOUNTING OPTIONS |
|---|

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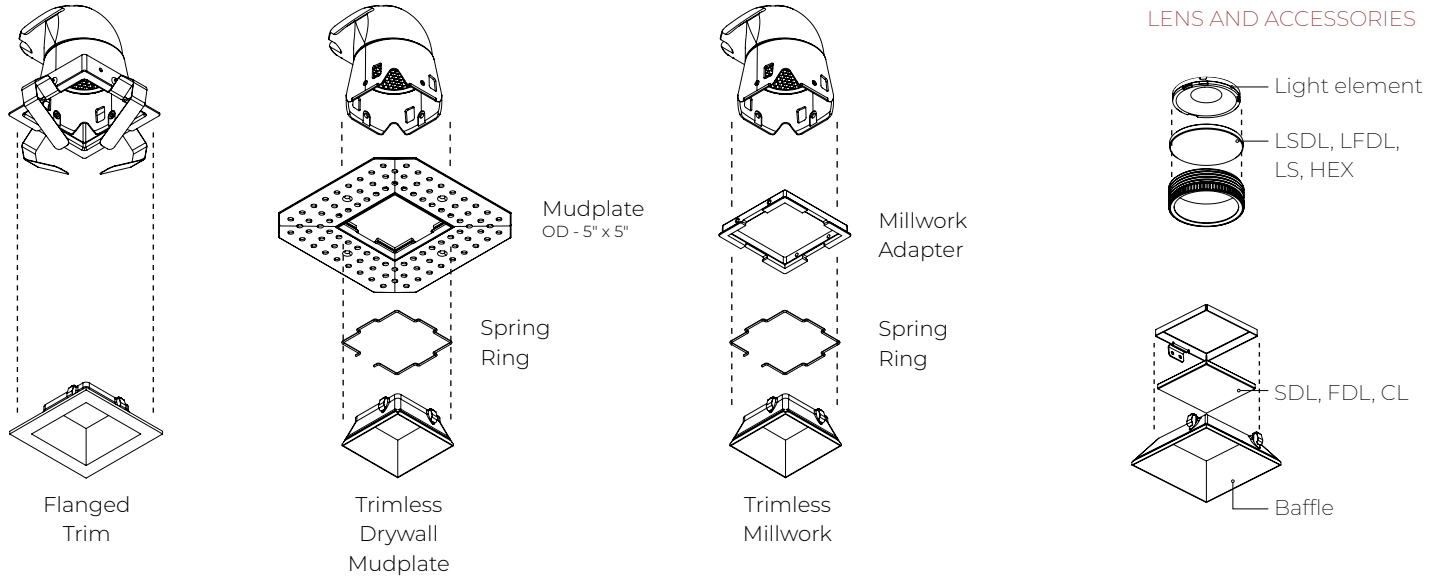
AHC - Adjustable Hat Channel Bars
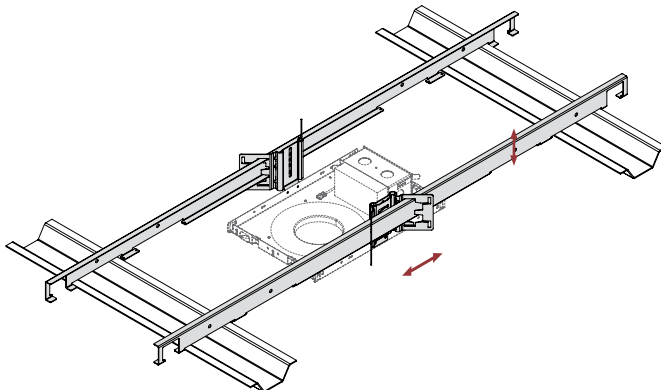
Adjustable Hat Channel bars can be used in both commercial and residential applications and come with a butterfly clip to adjust to various heights. AHC bars can be hung downward by 90 degrees in vertical position, and once wired, can be shifted onto the horizontal mounting plane. AHC bars are suitable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

ETL LISTED Intertek
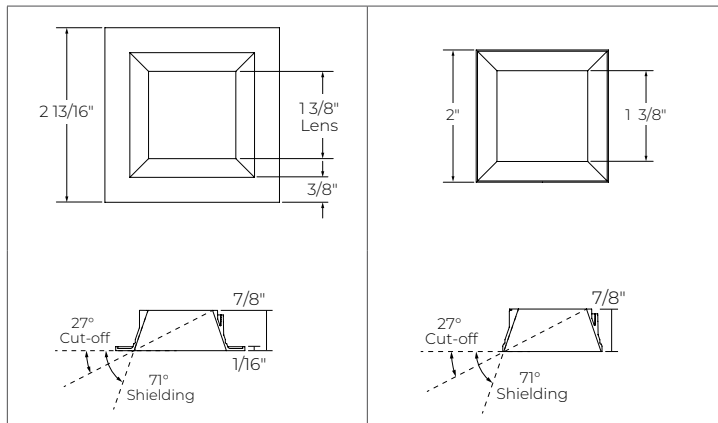
PoE

AERA 2" DOWNLIGHT
SQUARE RECESSED

Lumenwerx

Light & Baffle

Flanged Trim

Mudplate
OD - 5" x 5"

Spring Ring

Trimless Drywall Mudplate

Millwork Adapter

Spring Ring

Trimless Millwork

LENS AND ACCESSORIES

Light element

LSDL, LFDL, LS, HEX

SDL, FDL, CL

Baffle

Bevel	
TRM Flanged Trim	**TLMP/TLMW** Trimless Drywall Mudplate /Trimless Millwork

Baffle finish

Trim flange finish

2 13/16"

1 3/8" Lens

3/8"

27° Cut-off

7/8"

1/16"

71° Shielding

2"

1 3/8"

27° Cut-off

7/8"

71° Shielding

cETLus LISTED
Intertek

Lumenwerx reserves the right to modify product specifications without notification.
AERA2-DOWNLIGHT-SQUARE-RECESSED-SPEC-REV6   April 22, 2024

PoE
Power over Ethernet

AERA 2" DOWNLIGHT
SQUARE RECESSED

Lumenwerx

Color Quality

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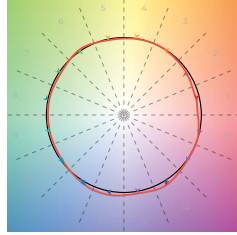
Photometrics

STATIC WHITE

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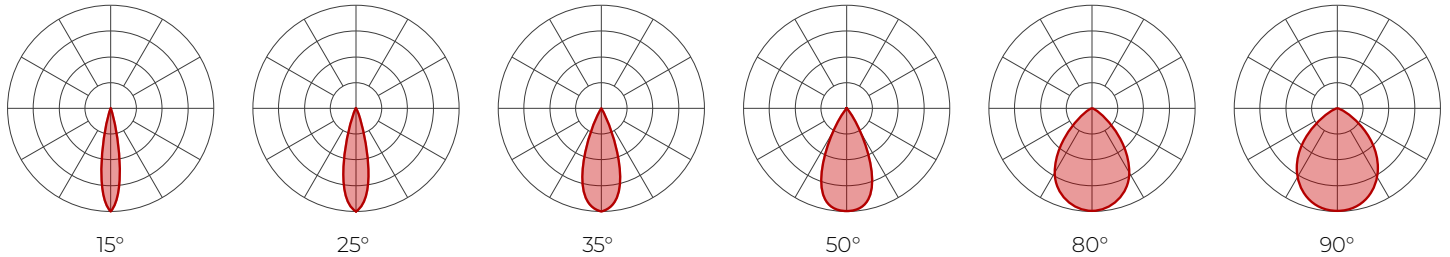
| 15° | 25° | 35° | 50° | 80° | 90° |

Delivered lumens

CRI	90 CRI						95 CRI						80 CRI					
BEAM	15°	25°	35°	50°	80°	90°	15°	25°	35°	50°	80°	90°	15°	25°	35°	50°	80°	90°
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.

CCT	
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 element)	
LSDL - Soft diffused lens, Solite	1
LFDL - Frosted lens	0.8
LS - Linear spread	0.84
HEX - Hex louver	0.86

* 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

ETL LISTED Intertek
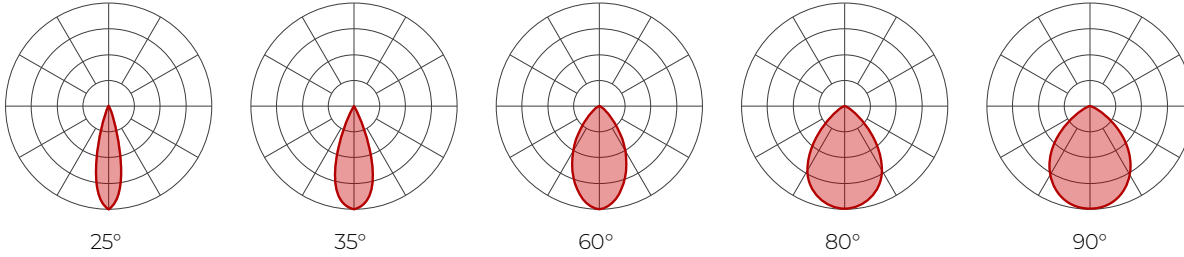
PoE Power over Ethernet

AERA 2" DOWNLIGHT
SQUARE RECESSED

Lumenwerx

Photometrics

SOLA/DUO
Values calculated based on bevel baffle and SDL lens option.

| 25° | 35° | 60° | 80° | 90° |

SOLA

BEAM		25°		35°		60°		80°		90°	
		lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W	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

DUO

BEAM		25°		35°		60°		80°		90°	
		lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W
8 W	6500K	500	63	485	61	440	55	380	48	350	44
	5000K	500	63	485	61	440	55	380	48	350	44
	2700K	430	54	420	53	355	44	305	38	280	35

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

* When more than one lens or accessory is specified,
  multiply together the value of each lens and/or accessory.
  e.g. NOL + LSDL = 1.1 x 1 = 1.1

ETL LISTED
c us
Intertek

Lumenwerx reserves the right to modify
product specifications without notification.
AERA2-DOWNLIGHT-SQUARE-RECESSED-SPEC-REV6   April 22, 2024
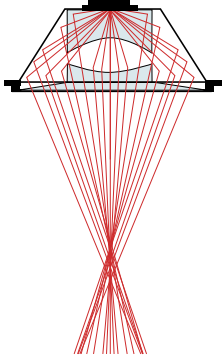
PoE

AERA 2" DOWNLIGHT
SQUARE RECESSED

Lumenwerx

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.

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%.
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 hanger bars and butterfly brackets are included. Adjustable commercial hat channel and flush mounted brackets are also available.

ETL LISTED Intertek

PoE

AERA 2" DOWNLIGHT
SQUARE RECESSED

Lumenwerx

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

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

LENS AND ACCESSORIES

Soft diffused lens, Solite   Frosted diffused lens   Clear lens   Linear spread   Hex louver

ENVIRONMENT
Ambient temperature at fixture location shall be within 0°C/32°F - 25°C/77°F, indoor dry or damp as well as outdoor damp use (canopies or marquees).

CERTIFICATIONS
ETL: Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.
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, CP or AT installation type options.
ENERGY STAR: ENERGY STAR certified
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.