AERA 4" DOWNLIGHT
ROUND RECESSED
NEW CONSTRUCTION & REMODEL

Lumenwerx

5 YEAR WARRANTY

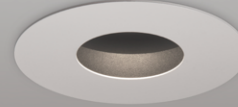IP44 | JA8 TITLE 24 | ENERGY STAR | Declare.

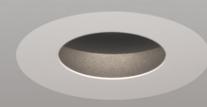| Bevel Trimless Drywall Mudplate | Bevel Flanged Trim | Pinhole Flanged Trim | Pinhole Trimless Drywall Mudplate |
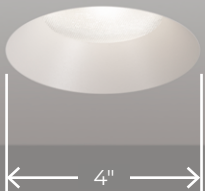
4"

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 4"

Beam Angles

10° | 15° | 25° | 35° | 50° | 80° | 90°

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

Performance

LUMEN OUTPUT [1]	WATTS	EFFICACY
1481 lm	14 W	106 lm/W
2066 lm	20 W	103 lm/W
2775 lm	28 W	99 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 / 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" 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 |

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AERA4-DOWNLIGHT-ROUND-RECESSED-SPEC-REV7   March 6, 2025

PoE Power over Ethernet

AERA 4" DOWNLIGHT

ROUND RECESSED
NEW CONSTRUCTION & REMODEL

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: AE4RR-TRM-SW-OF-ASB-120V-14W-D1-NA)

LUMINAIRE ID [1]	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTION [4]
AE4RR				
AE4RR - Aera 4" Round 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 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] Not available with 28 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** - No bar hangers [4] See page 6 for more details. [5] Not available with RM installation type.

VOLTAGE	WATTAGE [7]	DIMMING [10]		OPTION [21]
				NA
120V - 120V **277V** - 277V **UNV** - 120V-277V **347V** [6] - 347V [6] Available with RD1 driver only. Please consult factory.	**14W** - 14 W output, up to 1538 lm **20W** - 20 W output, up to 2146 lm **28W** [8],[9] - 28 W output, up to 2882 lm [7] Lumen outputs are reduced with full spectrum, consult factory. [8] Not available with IC/CP/AT. [9] Not available with full spectrum. **SOLA** [8] **28W** - 28 W output, up to 1945 lm **DUO** [8] **28W** - 28 W output, up to 2055 lm	**INTEGRAL** **D1** - 1% 0-10V **ELV** [11] - ELV 120V **TRI** [11] - TRIAC 120V **LDE1** [12],[13] - Lutron Hi-lume 1% Eco **DA** [12],[13] - DALI **ELD1** [12] - eldoLED 1% ECOdrive 0-10V **ELD0** [12] - eldoLED 0.1% SOLOdrive 0-10V **PEQ0** [13],[14],[15] - Lutron Hi-lume Premier 0.1% EcoSystem **DEB** [15] - 0-10V with onboard emergency battery backup [10] PoE (Power-over-Ethernet) compatible. Consult factory for details. [11] Available with 120V only. [12] Not available with RM installation type. [13] On-site commissioning is required. [14] Not available with 28 W output. [15] Available with OF housing only. **SOLA** **SD1** - Single 0-10V input **SELV** [11] - ELV 120V **STRI** [11] - TRIAC 120V **DUO** [12] **DMX** [13] - DMX **DDA** [13] - DALI DT6 **DDA8** [13] - DALI DT8 **DD1** - Dual 0-10V input for CCT/intensity **LD2** [13] - Lutron DALI-2 digital	**REMOTE** [16] **RD1** - 1% 0-10V **RELV** [17] - ELV 120V **RTRI** [17] - TRIAC 120V **RLDE1** [18] - Lutron Hi-lume 1% Eco **RDA** [18] - DALI **RELD1** [18] - eldoLED 1% ECOdrive 0-10V **RELD0** [18] - eldoLED 0.1% SOLOdrive 0-10V **RPEQ0** [18],[19] - Lutron Hi-lume Premier 0.1% EcoSystem **+EB** [20] - Emergency battery [16] A remote driver box is provided, see page 5 for details. [17] Available with 120V only. [18] On-site commissioning is required. [19] Not available with 28 W output. [20] For emergency battery, code will be like the following example: RD1+EB **SOLA** **RSD1** - Single 0-10V input **RSELV** [17] - ELV 120V **RSTRI** [17] - TRIAC 120V **DUO** **RDMX** [18] - DMX **RDDA** [18] - DALI DT6 **RDDA8** [18] - DALI DT8 **RDD1** - Dual 0-10V input for CCT/intensity **RLD2** [18] - Lutron DALI-2 digital	**NA** - None [21] To specify an ENERGY STAR certified fixture, see page 3. To specify a JA8 compliant fixture, see page 4.

2 - Light & Baffle (Example: AE4RRB-SW-14W-15DEG-2STP-90CRI-27K-LSDL+LS-TRM-CL-FTMW-FTMW-NA)

LUMINAIRE ID	LIGHT SOURCE Specify same as Housing	WATTAGE [22] Specify same as Housing	BEAM	COLOR QUALITY	CRI	COLOR TEMP.
AE4RRB - Aera 4" Round Recessed Bevel **AE4RRP** - Aera 4" Round Recessed Pinhole	**SW** - Static white **FS** - Full spectrum static white	**14W** - 14 W output, up to 1538 lm **20W** - 20 W output, up to 2146 lm **28W** [23],[24] - 28 W output, up to 2882 lm [22] Lumen outputs are reduced with full spectrum, consult factory. [23] Not available with IC/CP/AT. [24] Not available with full spectrum.	**10DEG** - 10° Very narrow spot **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** [25] - 2 Step MacAdam Ellipse **3STP** - 3 Step MacAdam Ellipse [25] Not available with full spectrum static white.	**80CRI** [26] - 80+ CRI **90CRI** [26] - 90+ CRI **95CRI** [34] - 95+ CRI [26] Not available with full spectrum static white. [34] Not available with 2400K and 5000K.	**24K** - 2400K **27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K
	SOLA - Dim-to-warm single channel control **DUO** - Tunable white 2-channel control	**SOLA** [23] **28W** - 28 W output, up to 1945 lm **DUO** [23] **28W** - 28 W output, up to 2055 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	**SOLA** **30K18K** - 3000K to 1800K **27K18K** - 2700K to 1800K **DUO** **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 Specify NA for Pinhole	TRIM FLANGE FINISH [31] Specify NA for Bevel Trimless	OPTION [32]
At light element [27],[28] (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** [29] - Hex louver **NA** - None [27] Separate codes with a "+" if more than one is specified, e.g. LSDL+LS. [28] LSDL and LFDL cannot be combined. LS and HEX cannot be combined. [29] Not available with 80°/90° beam options.	**TRM** - Flanged trim **TLMP** - Trimless drywall mudplate **TLMW** [30] - Trimless millwork [30] For remodel (RM) installation type, TLMW adapter must be installed from above the ceiling or before ceiling is installed.	**At baffle** (choose 1 option) Specify NOL for Pinhole **SDL** - Soft diffused lens, Solite **FDL** - Frosted diffused lens **CL** - Clear lens **NOL** - No lens	**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	**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 [31] A trim flange finish option must be specified for pinhole. See page 7 for details.	**WET** [33] - Wet location **NA** - None [32] To specify an ENERGY STAR certified fixture, see page 3. To specify a JA8 compliant fixture, see page 4. [33] Must be specified with the bevel (AE4RRB), 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.

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AERA4-DOWNLIGHT-ROUND-RECESSED-SPEC-REV7   March 6, 2025

PoE Power over Ethernet

AERA 4" DOWNLIGHT

Lumenwerx

ROUND RECESSED
NEW CONSTRUCTION & REMODEL
ENERGY STAR
Order Guide

Project: _____

Type: _____

ENERGY STAR

1 - Housing (Example: AE4RR-TRM-SW-OF-ASB-120V-14W-D1-ES)

LUMINAIRE ID [1]	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTION [2]
AE4RR		**SW**		
AE4RR - Aera 4" Round 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
	14W			**ES**
120V - 120V **277V** - 277V **UNV** - 120V-277V	**14W** - 14 W output, up to 1538 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: AE4RRB-SW-14W-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.
	SW	**14W**		**2STP**		
AE4RRB - Aera 4" Round Recessed Bevel **AE4RRP** - Aera 4" Round Recessed Pinhole	**SW** - Static white	**14W** - 14 W output, up to 1538 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 Specify NA for Pinhole	TRIM FLANGE FINISH [7] 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** Specify NOL for Pinhole **SDL** - Soft diffused lens, Solite **FDL** - Frosted diffused lens **CL** - Clear lens **NOL** - No lens	**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	**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 [7] A trim flange finish option must be specified for pinhole. See page 7 for details.	**ES** - ENERGY STAR **WET** [8,9] - Wet location [8] Must be specified with the bevel (AE4RRB), flanged trim (TRM), and either SDL, FDL, or CL lens options. [9] To specify the WET option, the code will be ES+WET.

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AERA 4" DOWNLIGHT

Lumenwerx

ROUND RECESSED
NEW CONSTRUCTION & REMODEL
Title 24 JA8
Order Guide

Project: _____

Type: _____

JA8 TITLE 24 (COMPLIANT WITH)

1 - Housing (Example: AE4RR-TRM-SW-AT-ASB-120V-14W-D1-JA8)

LUMINAIRE ID [1]	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTION [2]
AE4RR		**SW**	**AT**	
AE4RR - Aera 4" Round 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	**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
	14W			**JA8**
120V - 120V **277V** - 277V **UNV** - 120V-277V	**14W** - 14 W output, up to 1538 lm	**INTEGRAL** **D1** - 1% 0-10V **ELV** [3] - ELV 120V **TRI** [3] - TRIAC 120V **LDE1** [4] - Lutron Hi-lume 1% Eco [3] Available with 120V only. [4] On-site commissioning is required.	**REMOTE** [5] **RD1** - 1% 0-10V **RELV** [6] - ELV 120V **RTRI** [6] - TRIAC 120V **RLDE1** [7] - Lutron Hi-lume 1% Eco [5] A remote driver box is provided, see page 5 for details. [6] Available with 120V only. [7] On-site commissioning is required.	**JA8** - JA8 compliant

2 - Light & Baffle (Example: AE4RRB-SW-14W-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.
	SW	**14W**			**90CRI**	
AE4RRB - Aera 4" Round Recessed Bevel **AE4RRP** - Aera 4" Round Recessed Pinhole	**SW** - Static white	**14W** - 14 W output, up to 1538 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

ACCESSORY * See page 7 for details	TRIM STYLE Specify same as Housing	LENS * See page 7 for details	BAFFLE FINISH Specify NA for Pinhole	TRIM FLANGE FINISH [8] 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** Specify NOL for Pinhole **SDL** - Soft diffused lens, Solite **FDL** - Frosted diffused lens **CL** - Clear lens **NOL** - No lens	**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	**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 [8] A trim flange finish option must be specified for pinhole. See page 7 for details.	**JA8** - JA8 compliant **WET** [9, 10] - Wet location [9] Must be specified with the bevel (AE4RRB), flanged trim (TRM), and either SDL, FDL, or CL lens options. [10] 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.

AERA 4" DOWNLIGHT
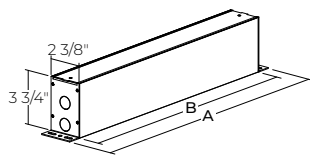
ROUND RECESSED
NEW CONSTRUCTION & REMODEL

Lumenwerx

Housing

INSTALLATION TYPES

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

8 5/8" · 4 5/8" · 12 3/4" · C

8 5/8" · 4 5/8" · 12 3/4" · C

8 5/8" · 8 1/16" · 14 5/16" · C

RM - Remodel Type Non-IC

Integral	Remote

2 5/16" · 2 1/4" · 8 5/8" · C

C · 1 1/4" · 15/16" · 2 1/2" · 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
2 3/8" · 3 3/4" · B · A

RDB24W
5" · 3 3/4" · B · A

	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 **RPEQ0** - Lutron Hi-lume Premier 0.1% EcoSystem SOLA **RSD1** - 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. **RD1+EB** - 1% 0-10V **RELV+EB** - ELV 120V **RTRI+EB** - TRIAC 120V DUO **RDMX** - DMX **RDDA** - DALI DT6 **RDDA8** - DALI DT8 **RDD1** - Dual 0-10V input for CCT/intensity **RLD2** - Lutron DALI-2 digital	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

PLENUM CLEARANCE & CUT-OUT DIMENSIONS

C · G

TRM/TLMP
D

TLMW
E · F · 1/8"
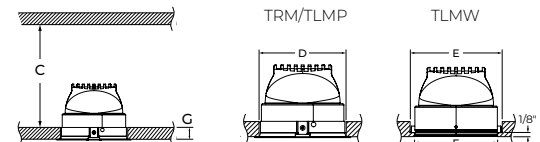
PLENUM CLEARANCE HEIGHT				
		REMOTE & INTEGRAL		
		D1/ELV/TRI	**LDE1/DA/ELD1/ELD0/PEQ0**	
C	**OF**	4 1/8"	6"	
	IC	4" (14 W) 6 3/8" (20 W)	6 3/8"	
	CP/AT	4 7/8" (14 W) 6 7/8" (20 W)	6 7/8"	
	RM	4 1/8"	NA	

CUT-OUT DIMENSIONS		
D	TRM/TLMP	Ø 4 1/2"
E	TLMW	Ø 4 1/2"
F		Ø 4 1/16" with 1/8" lip

MAXIMUM CEILING THICKNESS		
G	**TRM/ TLMP**	1 3/8"
	TLMW	5/8"

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AERA4-DOWNLIGHT-ROUND-RECESSED-SPEC-REV7   March 6, 2025

PoE Powered over Ethernet

AERA 4" DOWNLIGHT

ROUND RECESSED
NEW CONSTRUCTION & REMODEL

Lumenwerx

Housing

MOUNTING OPTIONS

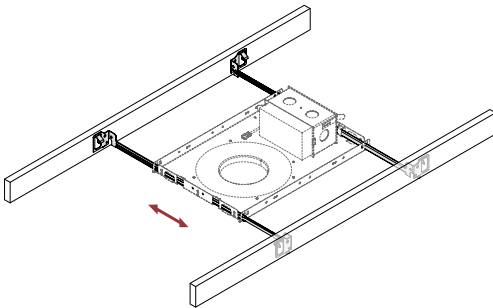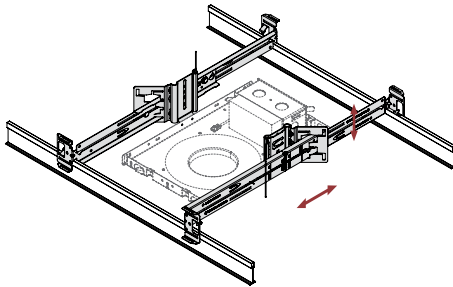### ASB - Adjustable Standard Bar Hangers
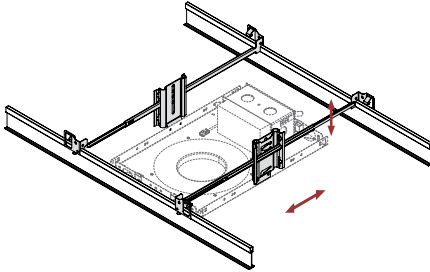
Adjustable Standard Bar hangers can be used in both commercial and residential applications and are adjustable to various heights in both Grid Ceiling and Drywall mounting. ASB hangers are less rigid and versatile than ACB hangers.

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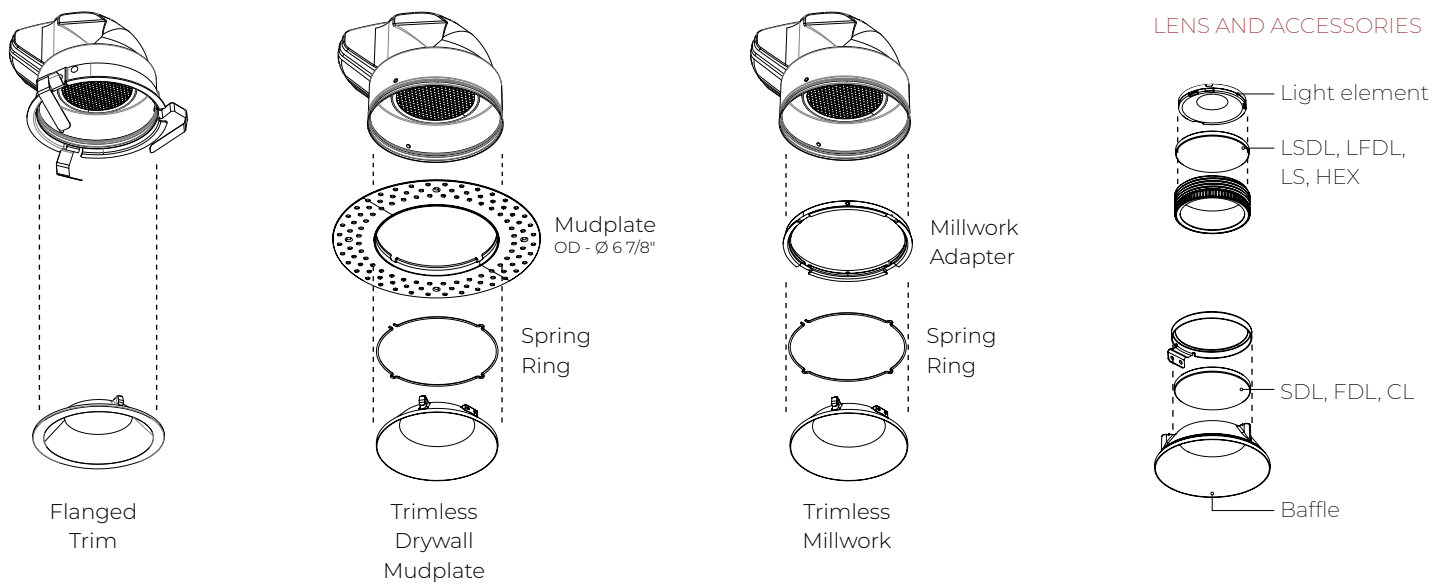
AHC - Adjustable Hat Channel Bars
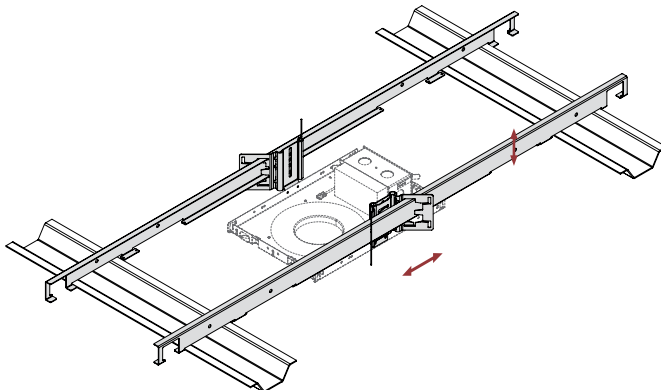
Adjustable Hat Channel bars can be used in both commercial and residential applications and come with a butterfly clip to adjust to various heights. AHC bars can be hung downward by 90 degrees in vertical position, and once wired, can be shifted onto the horizontal mounting plane. AHC bars are suitable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

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AERA 4" DOWNLIGHT

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NEW CONSTRUCTION & REMODEL

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Light & Baffle

Flanged Trim

Mudplate
OD - Ø 6 7/8"

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

▫ Baffle finish	▫ Trim flange finish
▪ Trim flange finish	▪ Textured matte black

Ø 4 13/16"
Ø 2 1/2"
3/8"
15° Cut-off
49° Shielding
7/8"
1/16"

Ø 4 1/16"
Ø 2 1/2"
15° Cut-off
49° Shielding
7/8"

Ø 4 13/16"
Ø 2"
Optic
7/8"
35° Cut-off

Ø 4 1/16"
Ø 2"
Optic
7/8"
1/16"
35° Cut-off

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Color Quality

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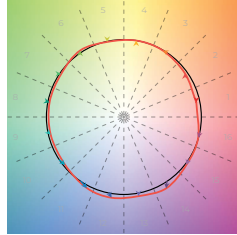
Photometrics

STATIC WHITE

Values calculated based on 3500K, bevel baffle, and SDL lens option.
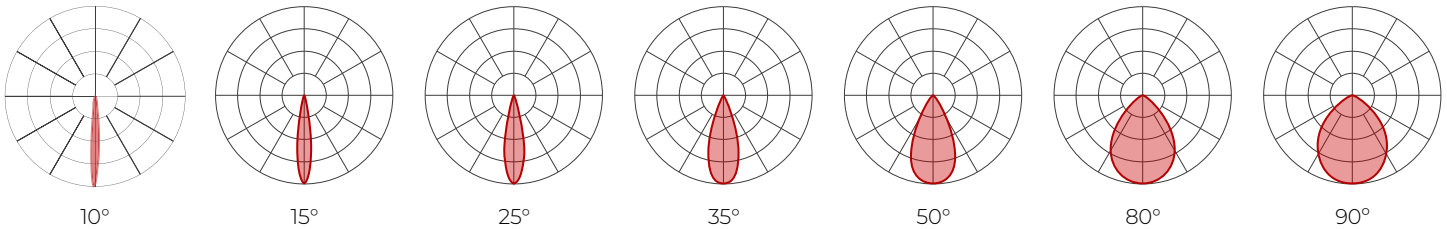
| 10° | 15° | 25° | 35° | 50° | 80° | 90° |

Delivered lumens

CRI	90 CRI							95 CRI							80 CRI						
BEAM	10°	15°	25°	35°	50°	80°	90°	10°	15°	25°	35°	50°	80°	90°	10°	15°	25°	35°	50°	80°	90°
14 W	1259	1399	1437	1384	1356	1220	1220	969	1077	1106	1066	1044	940	940	1347	1497	1538	1481	1451	1306	1306
20 W	1757	1952	2006	1931	1893	1704	1704	1353	1503	1545	1487	1458	1312	1312	1880	2089	2146	2066	2026	1823	1823
28 W	2359	2621	2693	2593	2541	2287	2287	1816	2018	2074	1997	1957	1761	1761	2524	2804	2882	2775	2719	2447	2447

Efficacy

CRI	90 CRI							95 CRI							80 CRI						
BEAM	10°	15°	25°	35°	50°	80°	90°	10°	15°	25°	35°	50°	80°	90°	10°	15°	25°	35°	50°	80°	90°
14 W	90	100	103	99	97	87	87	69	77	79	76	75	67	67	96	107	110	106	104	93	93
20 W	88	98	100	97	95	85	85	68	75	77	74	73	66	66	94	104	107	103	101	91	91
28 W	84	94	96	93	91	82	82	65	72	74	71	70	63	63	90	100	103	99	97	87	87

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	
2400K	0.87
2700K	0.94
3000K	0.98
3500K	1
4000K	1.05
5000K	1.05

BAFFLE STYLE AND COLOR	
Flanged trim	1
Trimless	1
Bevel	1
Wet bevel	1
Pinhole	0.92
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

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PoE
Power over Ethernet
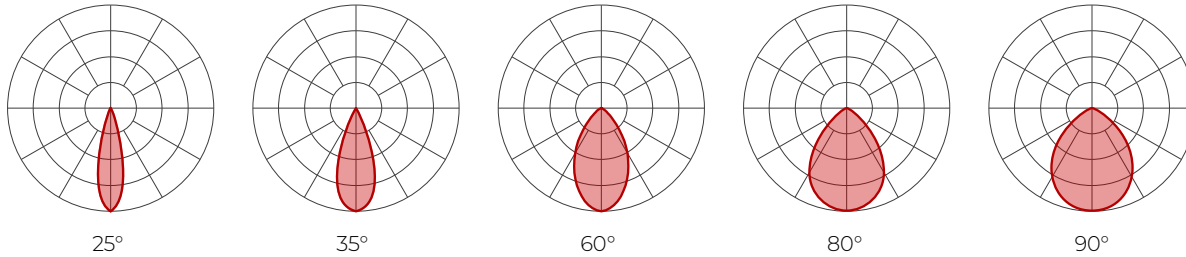
AERA 4" DOWNLIGHT

ROUND RECESSED
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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
28 W	3000K	1920	69	1945	69	1850	66	1590	57	1460	52
	2700K	1920	69	1945	69	1850	66	1590	57	1460	52

DUO

BEAM		25°		35°		60°		80°		90°	
		lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W
28 W	6500K	2005	72	2055	73	1980	71	1700	61	1565	56
	5000K	2005	72	2055	73	1980	71	1700	61	1565	56
	2700K	1780	64	1820	65	1740	62	1495	53	1375	49

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
Pinhole	0.92
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

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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.
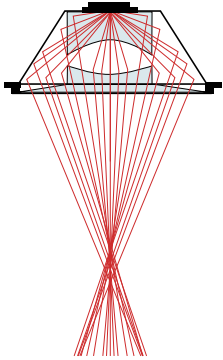
LIGHT SOURCE
Static white
Compact COB (Chip-On-Board) LED module, available in 2400K, 2700K, 3000K, 3500K, 4000K, and 5000K with a choice of 80 CRI, 90 CRI, or 95 CRI, with elevated R9 value for 90 CRI and above. Color consistency is maintained to within 2 SDCM. All LEDs have been tested in accordance 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 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, Lutron Hi-Lume 1% EcoSystem, DALI, eldoLED 0.1% SOLOdrive 0-10V, eldoLED 1% ECOdrive 0-10V, DMX, Lutron DALI-2 digital
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 - Integral: Factory installed, long-life, high-temperature, LED driver with integrated emergency backup using a recyclable LiFePO4 battery pack. Features a remote test switch with charge indicator, minimum of 90 minutes operation and 10 W per downlight emergency lighting output. Recharge time of 12 hours.
Emergency battery options - Remote: 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.

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PoE
Powered Device

AERA 4" DOWNLIGHT

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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
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: 4.5 lbs - 2 kg
Type-IC/Chicago Plenum: 8 lbs - 3.6 kg
Remodel: 3.5 lbs - 1.6 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.

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PoE