ECANA 3" DOWNLIGHT
ROUND RECESSED

Lumenwerx

5 YEAR WARRANTY

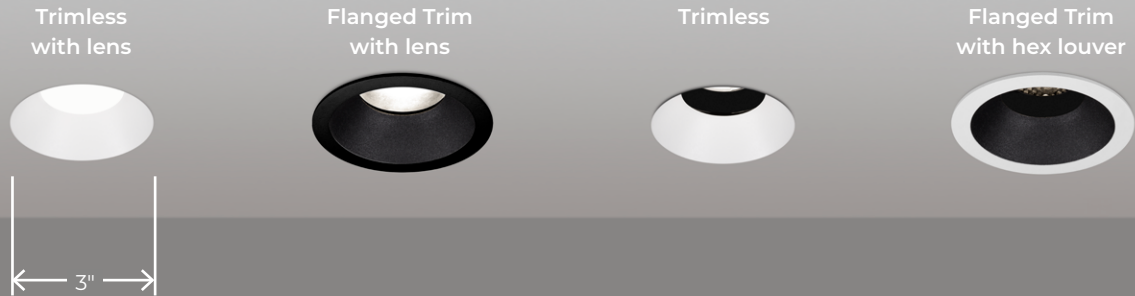**Trimless with lens**

Flanged Trim with lens
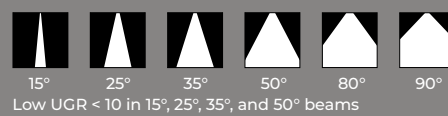
Trimless

Flanged Trim with hex louver

3"

The Ecana downlight family is designed as round or square fixtures with simple detailing, available in 3", 4", and 6" sizes. The family includes fixed, adjustable, and wall wash configurations and blends effortlessly into various settings, enriching small and large-scale projects with practical, cost-effective, and finely tuned lighting.

Ceiling Types

Drywall   Millwork   Acoustic Tile

Plenum Clearance

As low as 4"

Certifications

IP44 Shower Rated
Some restrictions may apply.

Beam Angles

15°   25°   35°   50°   80°   90°

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

Performance

LUMEN OUTPUT [1]	WATTS	EFFICACY
1132 lm	10 W	113 lm/W
1545 lm	14 W	110 lm/W
2135 lm	20 W	107 lm/W

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

Light Source

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

Ecana Family (Refer to other spec sheets)

3" / 4" / 6"
Round / Square
Recessed Adjustable

3" / 4" / 6"
Round / Square
Recessed

3" / 4" / 6"
Round / Square
Recessed Wall Wash

ETL LISTED
Intertek

Lumenwerx reserves the right to modify product specifications without notification.
ECANA3-DOWNLIGHT-ROUND-RECESSED-SPEC-REV0   March 6, 2024

PoE Power over Ethernet

ECANA 3" DOWNLIGHT
ROUND RECESSED

Lumenwerx

Project: _____

_____

Type: _____

Order Guide

1 - Housing (Example: EC3RR-TRM-SW-OF-ASB-120V-10W-D1-NA)

LUMINAIRE ID [1]	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTION [4]
EC3RR				
EC3RR - Ecana 3" 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 **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 19 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 4 for more details. [5] Not available with RM installation type.

VOLTAGE	WATTAGE	DIMMING [9]		OPTION
120V - 120V **277V** - 277V **UNV** - 120V-277V **347V** [6] - 347V [6] Available with RD1 driver only. Please consult factory.	**10W** - 10 W output, up to 1132 lm **14W** - 14 W output, up to 1545 lm **20W** [7, 8] - 20 W output, up to 2135 lm [7] Not available with 95 CRI when specified with RM. [8] Not available with IC/CP/AT. **SOLA** [8] **19W** - 19 W output, up to 1205 lm **DUO** [8] **19W** - 19 W output, up to 1355 lm	**INTEGRAL** **D1** - 1% 0-10V **ELV** [10] - ELV 120V **TRI** [10] - TRIAC 120V **DA** [11, 12] - DALI **ELD1** [11] - eldoLED 1% ECOdrive 0-10V **ELD0** [11] - eldoLED 0.1% SOLOdrive 0-10V **PEQ0** [12, 13] - Lutron Hi-lume Premier 0.1% EcoSystem [9] PoE (Power-over-Ethernet) compatible. Consult factory for details. [10] Available with 120V only. [11] Not available with RM installation type. [12] On-site commissioning is required. [13] Available with OF installation type only. **SOLA** **SD1** - Single 0-10V input **SELV** [10] - ELV 120V **STRI** [10] - TRIAC 120V	**REMOTE** [14] **RD1** - 1% 0-10V **RELV** [15] - ELV 120V **RTRI** [15] - TRIAC 120V **RLDE1** [16] - Lutron Hi-lume 1% Eco **RDA** [16] - DALI **RELD1** [16] - eldoLED 1% ECOdrive 0-10V **RELD0** [16] - eldoLED 0.1% SOLOdrive 0-10V **RPEQ0** [16] - Lutron Hi-lume Premier 0.1% EcoSystem **+EB** [17] - Emergency battery [14] A remote driver box is provided, see page 3 for details. [15] Available with 120V only. [16] On-site commissioning is required. [17] For emergency battery, code will be like the following example: RD1+EB **SOLA** **RSD1** - Single 0-10V input **RSELV** [15] - ELV 120V **RSTRI** [15] - TRIAC 120V	**DUO** **RDMX** [16] - DMX **RDDA** [16] - DALI DT6 **RDDA8** [16] - DALI DT8 **RDD1** - Dual 0-10V input for CCT/intensity **RPSQ0** [16] - Lutron T-Series 1% tunable white	**PMP** [18] - Pre-mounting plate **NA** - None [18] Available with RM installation type only.

2 - Light & Baffle (Example: EC3RRB-SW-10W-15DEG-2STP-90CRI-27K-LSDL+LS-TRM-CL-FTMW-FTMW-NA)

LUMINAIRE ID	LIGHT SOURCE Specify same as Housing	WATTAGE Specify same as Housing	BEAM	COLOR QUALITY	CRI	COLOR TEMP.
EC3RRB						
EC3RRB - Ecana 3" Round Recessed	**SW** - Static white	**10W** - 10 W output, up to 1132 lm **14W** - 14 W output, up to 1545 lm **20W** [19, 20] - 20 W output, up to 2135 lm [19] Not available with 95 CRI when specified with RM. [20] 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** - 2 Step MacAdam Ellipse **3STP** - 3 Step MacAdam Ellipse	**90CRI** - 90 CRI **95CRI** - 95 CRI **80CRI** - 80 CRI	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K
	SOLA - Dim-to-warm single channel control **DUO** - Tunable white 2-channel control	**SOLA** [20] **19W** - 19 W output, up to 1205 lm **DUO** [20] **19W** - 19 W output, up to 1355 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 5 for details	TRIM STYLE Specify same as Housing	LENS * See page 5 for details	BAFFLE FINISH	TRIM FLANGE FINISH Specify NA for Trimless	OPTION
At light element [21, 22] (choose up to 2 options for SW and 1 option for SOLA/DUO) **LSDL** - Soft diffused lens, Solite **LFDL** - Frosted diffused lens **LS** - Linear spread **HEX** [23] - Hex louver **NA** - None [21] If two options are specified, separate codes with a "+", e.g. LSDL+LS. [22] LSDL and LFDL cannot be combined. LS and HEX cannot be combined. [23] Not available with 80°/90° beam options.	**TRM** - Flanged trim **TLMP** - Trimless drywall mudplate **TLMW** [24] - Trimless millwork [24] 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 **CF#** - Custom finish, specify RAL#	**FTMW** - Textured matte white **FTMB** - Textured matte black **CF#** - Custom finish, specify RAL# **NA** - Not applicable	**WET** [25] - Wet location **NA** - None [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.**
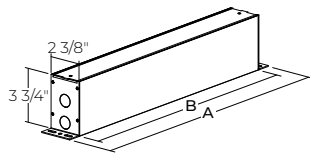
ECANA 3" DOWNLIGHT
ROUND RECESSED

Lumenwerx

Housing

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

OF dimensions: C, 8 5/8", 4 5/8", 12 3/4"
IC dimensions: C, 4 5/8", 8 5/8", 12 3/4"
CP/AT dimensions: 8 5/8", C, 4 5/8", 14 1/4"

RM - Remodel Type Non-IC		
Integral	Remote	**PMP** (Optional) - Pre-mounting plate

Integral dimensions: C, 2 5/16", 2 1/4", 8 5/8"
Remote dimensions: C, 1 1/4", 15/16", 2 1/2", REMOTE DRIVER BOX
PMP dimensions: 4 1/8", 15 1/2", 8"

- 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

PLENUM CLEARANCE & CUT-OUT DIMENSIONS

C, G

TRM/TLMP: D

TLMW: E, 1/8", F

	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	**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 **RPEQ0+EB** - Lutron Hi-lume Premier 0.1% EcoSytem	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 **RPSQ0** - Lutron T-Series 1% tunable white		
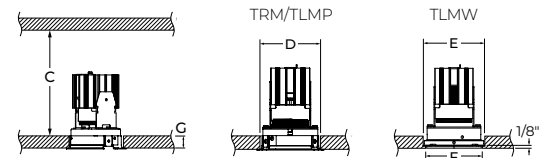
PLENUM CLEARANCE HEIGHT		
REMOTE & INTEGRAL		
C	**OF**	4" (10 W/14 W) 4 1/2" (20 W)
	IC	6 1/2"
	CP/AT	7"
	RM	4" (10 W/14 W) 4 1/2" (20 W)

CUT-OUT DIMENSIONS		
D	**TRM/ TLMP**	Ø 3 1/2"
E	**TLMW**	Ø 3 1/2"
F		Ø 3 1/16" with 1/8" lip

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

ETL LISTED Intertek

Lumenwerx reserves the right to modify product specifications without notification.
 ECANA3-DOWNLIGHT-ROUND-RECESSED-SPEC-REV0   March 6, 2024
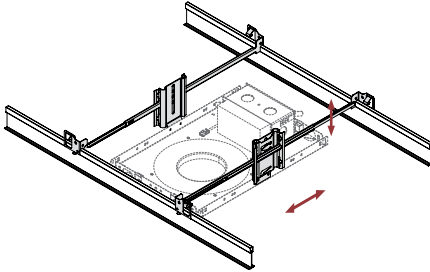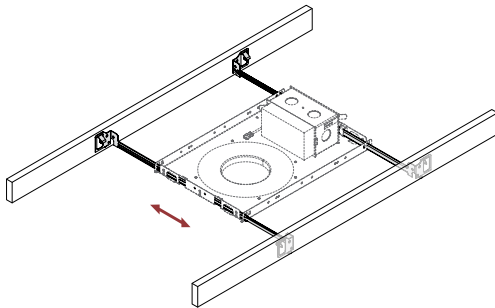
PoE

Lumenwerx

Housing

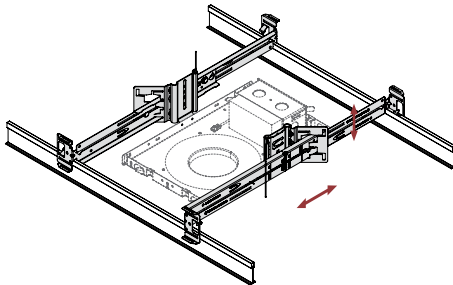| MOUNTING OPTIONS |
|---|

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
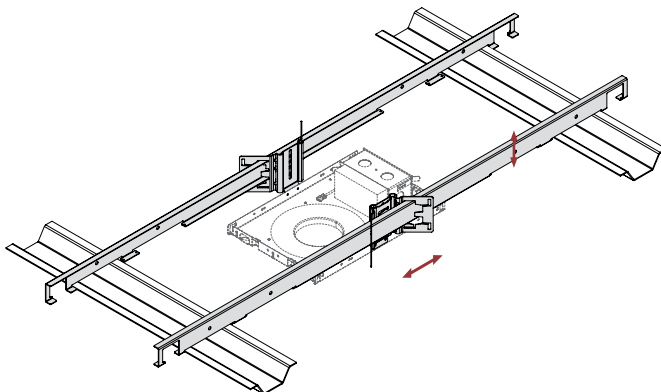
Adjustable Hat Channel bars can be used in both commercial and residential applications and come with a butterfly clip to adjust to various heights. AHC bars can be hung downward by 90 degrees in vertical position, and once wired, can be shifted onto the horizontal mounting plane. AHC bars are suitable for both Drywall and wood ceiling applications.
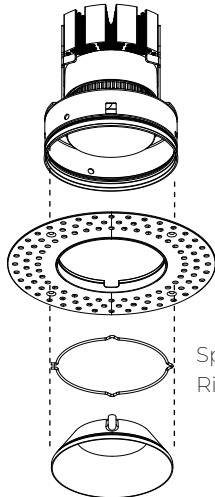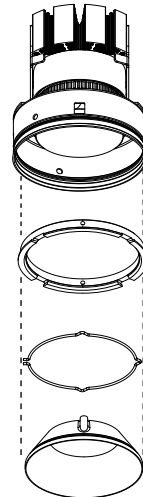
ECANA 3" DOWNLIGHT

ROUND RECESSED

Lumenwerx

Light & Baffle

Flanged Trim
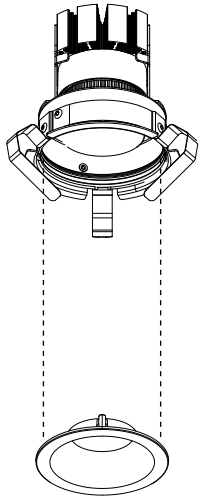
Mudplate OD - Ø 5 7/8"

Spring Ring

Trimless Drywall Mudplate

Millwork Adapter

Spring Ring

Trimless Millwork

LENS AND ACCESSORIES

Light element

LSDL, LFDL, LS, HEX

SDL, FDL, CL
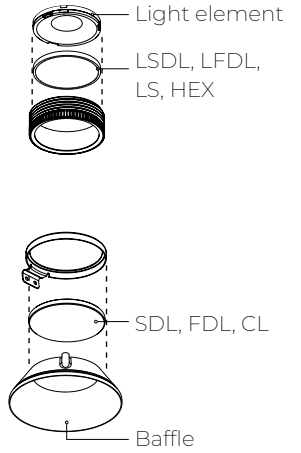
Baffle

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

- ☐ Baffle finish
- ▨ Trim flange finish

Ø 3 13/16" Ø 1 13/16" Lens 3/8"

20° Cut-off 7/8" 56° Shielding 1/16"

Ø 3 1/16" Ø 1 13/16" Lens

20° Cut-off 7/8" 56° Shielding

ETL LISTED Intertek

PoE Power over Ethernet
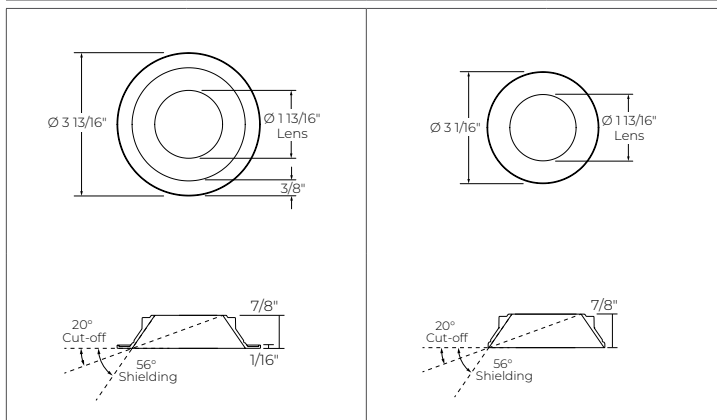
Color Quality

COLOR QUALITY - 3500K	
TM-30 R$_f$	92
TM-30 R$_g$	100
CRI	90
R9	> 50
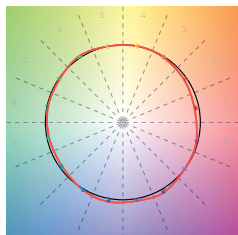
Photometrics

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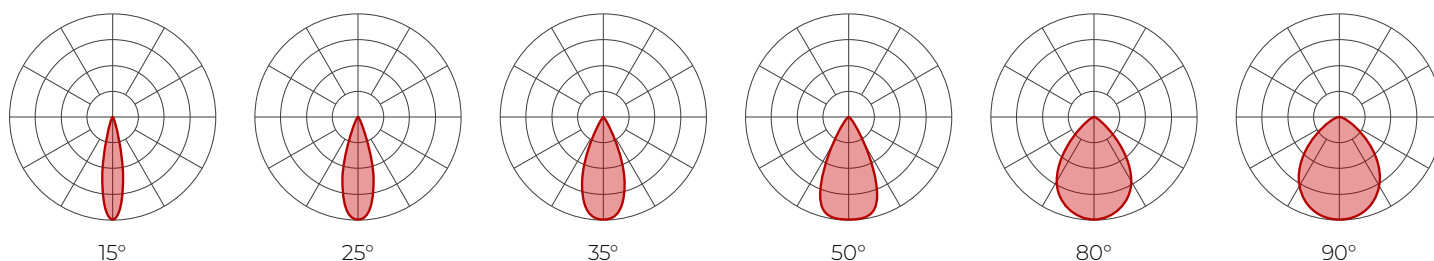
| 15° | 25° | 35° | 50° | 80° | 90° |

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°
10 W	987	1053	1058	937	843	843	760	811	815	721	649	649	1056	1127	1132	1003	902	902
14 W	1347	1438	1444	1280	1152	1152	1037	1107	1112	986	887	887	1441	1539	1545	1370	1233	1233
20 W	1861	1986	1995	1768	1591	1591	1433	1529	1536	1361	1225	1225	1991	2125	2135	1892	1703	1703

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°
10 W	99	105	106	94	84	84	76	81	81	72	65	65	106	113	113	100	90	90
14 W	96	103	103	91	82	82	74	79	79	70	63	63	103	110	110	98	88	88
20 W	93	99	100	88	80	80	72	76	77	68	61	61	100	106	107	95	85	85

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

CCT		TRIM STYLE AND BAFFLE FINISH		LENS * (At baffle)		ACCESSORIES * (At light element)	
2700K	0.9	Flanged trim	1	SDL - Soft diffused lens, Solite	1	LSDL - Soft diffused lens, Solite	1
3000K	0.95	Trimless	1	FDL - Frosted lens	0.8	LFDL - Frosted lens	0.8
3500K	1	White	1	CL - Clear lens	1.1	LS - Linear spread	0.84
4000K	1.05	Black	1	NOL - No lens	1.1	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

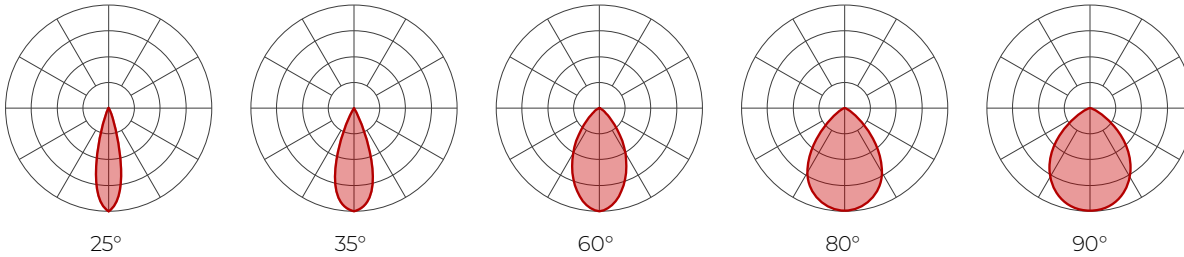Lumenwerx reserves the right to modify
product specifications without notification.
ECANA3-DOWNLIGHT-ROUND-RECESSED-SPEC-REV0   March 6, 2024

ECANA 3" DOWNLIGHT

ROUND 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
19 W	3000K	1150	61	1205	63	1100	58	945	50	870	46
	2700K	1150	61	1205	63	1100	58	945	50	870	46

DUO

BEAM		25°		35°		60°		80°		90°	
		lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W
19 W	6500K	1285	68	1355	71	1190	63	1025	54	940	49
	5000K	1285	68	1355	71	1190	63	1025	54	940	49
	2700K	1050	55	1090	57	960	51	760	40	760	40

MULTIPLIERS

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

TRIM STYLE AND BAFFLE FINISH	
Flanged trim	1
Trimless	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

cETLus LISTED
Intertek

Lumenwerx reserves the right to modify product specifications without notification.
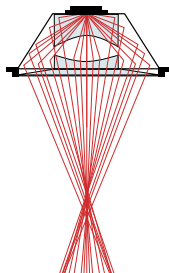ECANA3-DOWNLIGHT-ROUND-RECESSED-SPEC-REV0   March 6, 2024

PoE

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. Optional full spectrum LEDs can be incorporated in the fixture to increase Cyanosis Observation Index (COI) and assist in regulating circadian rhythms.

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
Remote: 0-10V, ELV, TRIAC, Lutron Hi-Lume 1% EcoSystem, DALI, eldoLED 0.1% SOLOdrive 0-10V, eldoLED 1% ECOdrive 0-10V, DMX, Lutron T-series (tunable white)
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.

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

ECANA 3" DOWNLIGHT

ROUND RECESSED

Lumenwerx

WEIGHT

Open frame: 4.3 lbs - 1.9 kg
Type-IC: 4.5 lbs - 2.0 kg
Chicago Plenum: 7.5 lbs - 3.4 kg
Remodel: 3.25 lbs - 1.5 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.

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.

ETL LISTED Intertek

Lumenwerx reserves the right to modify product specifications without notification.
ECANA3-DOWNLIGHT-ROUND-RECESSED-SPEC-REV0   March 6, 2024

PoE