







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







Millwork Acoustic Tile

Beam Angles







Plenum Clearance

As low as 4 1/8"



Performance

LUMEN OUTPUT 1	WATTS	EFFICACY
1538 lm	14 W	110 lm/W
2146 lm	20 W	107 lm/W
2882 lm	28 W	103 lm/W

Certifications



Light Source

Static White DUO - Tunable White



Ecana Family (Refer to other spec sheets)



Round / Square

Recessed Adjustable Recessed



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

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



ECANA 4" DOWNLIGHT **Lumenwerx**



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Project:	
Typo:	

Order Guide

1 - Housina (Example: EC4RR-TRM-SW-OF-ASB-120V-14W-D1-NA)

LUMINAIR	E ID¹	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTION 4	
EC4RR						
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 No IC 3 - Type-IC RM - Remodel Type Non-Ic CP 3 - Chicago Plenum Typ AT 3 - Airtight Type-IC	FMB ⁵ - Flúsh mount bars ACB ⁵ - Adjustable comme AHC ⁵ - Adjustable hat chai NA - None	rcial bar hangers nnel bars
VOLTAGE	WATTAGE	DIMMING 10				OPTION
120V - 120V 277V - 277V 120V-277V 347V 6 - 347V 6 - 347V 6 - 347V 6 consult factory.	14W 7 - 14 W out; up to 1538 lm 20W 8 9 - 20 W output, up to 214 28W 8 9 - 28 W output, up to 2882 lm ⁷ Not available with 9 CRI when specified IC/CP/AT. ⁸ Not available with 1C/CP/AT. SOLA 9 28W - 28 W outp	D1 - 1% 0-10V ELV " - ELV 120V TR! " - TRIAC 120V LDE1 "2-13 - Lutron Hi-lum DA 12-13 - DALI ELD1 "2 - eldoLED 1% ECC ELD0 "2 - eldoLED 0.1% S' PEQ0 13-14-15 - Cutron Hi-lu DB1 "5 - 0-10V with onbo " POE (Power-over-Ethernet) " Available with 120V only. " Not available with 18 W out " Not available with 28 W out " Not available with 28 W out " Not available with 28 W out	Odrive 0-10V OLOdrive 0-10V ume Premier 0.1% EcoSystem ard emergency battery backup compatible. Consult factory for detail lation type. quired. put.	RPEQ0 ^{18, 19} - Lutro +EB ²⁰ - Emergence s. 16 A remote driver box 7 Available with 120V c 19 On-site commission 9 Not available with 26	V Hi-lume 1% Eco % ECOdrive 0-10V 0.1% SOLOdrive 0-10V n Hi-lume Premier 0.1% EcoSystem by battery is provided, see page 3 for details. only, o	PMP ²¹ - Pre-mounting plate NA - None ²¹ Available with RM installation type only.
	up to 1945 lm DUO 9 28W - 28 W outp up to 2055 lm	SOLA SD1 - Single DM: 0-10V input DDA: SELV " - ELV 120V DDA: STRI " - TRIAC DD1	O K ¹³ - DMX A ¹⁸ - DALI DT6 A ¹⁸ - DALI DT8 - Dual 0-10V input for CCT/inte 10 ¹³ - Lutron T-Series 1% tunable		RDDA 18 - DALI DT6	

- Light & Raffle (Example: EC4RRB-SW-14W-25DEG-2STP-90CRI-27K-LSDL+LS-TRM-CL-FTMW-FTMW-NA)

LUMINAIRE ID	LIGHT SOURCE	WATT	AGE		BEAM		COLOR QUA	IITV	CPI	COLOR TEMP.		
EOMINAIRE ID	Specify same as Housing		same as Housing		DEAM		COLOR QUA				K IEMF.	
EC4RRB												
EC4RRB - Ecana 4" Round Recessed	SW - Static white	- 14 W output, up to 1538 3.24 - 20 W output, up to 2 3.24 - 28 W output, up to 2 vailable with 95 CRI when spec (CC)AT. vailable with 95 CRI when spec vailable with 95 CRI when spec vailable with 95 CRI when spec vailable with 1C/CP/AT.	146 lm 382 lm ified	15DEG - 15° Narro' 25DEG - 25° Spot 35DEG - 35° Narro' 50DEG - 50° Wide 80DEG - 80° Very 90DEG - 90° Ope	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	DUO 2	28 W output, up to 1945 I		25DEG - 25° Spot 35DEG - 35° Narro 60DEG - 60° Widd 80DEG - 80° Very 90DEG - 90° Ope	e flood wide flood		ose	90CRI - 90 CRI	SOLA 30K18K - 3000K to 1800 27K18K - 2700K to 1800 DUO 65K27K - 6500K to 2700 50K27K - 5000K to 2700		
ACCESSORIES * See page 5 for detail			TRIM STYLE Specify same as Housing	LENS See pa	5 * BAFFLE I age 5 for details				TRIM FLANGE FINISI Specify NA for Trimless		OPTION	
LSDL - Soft diffuse LFDL - Frosted dif LS - Linear spread HEX ²⁷ - Hex louve NA - None	ns for SW and 1 option for SOI ed lens, SOIite Iffused lens I er ecified, separate codes with		TRM - Flanged trim TLMP - Trimless drywall mudplate TLMW ²⁸ - Trimless millwork ²⁸ For remodel (RM) installation type, TLMW adapter must be installed from above the ceiling or before ceiling is installed.	SDL - Solite FDL - lens CL - C	Soft diffused lens,	white FTMB - Te black	1B - Textured matte ck t - Custom finish,		W - Textured matt B - Textured matte - Custom finish, sp # Not applicable	e black	WET ²⁹ - Wet location NA - None 2 ²⁹ 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.

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

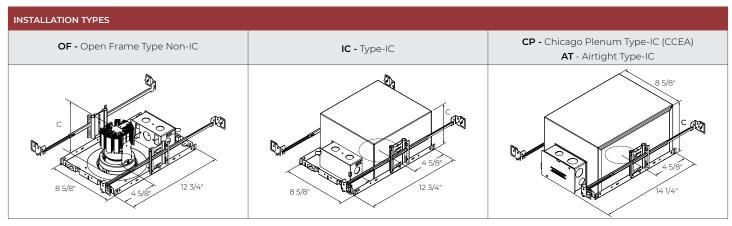


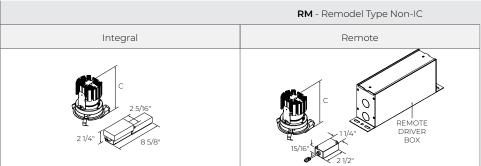


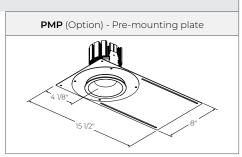
Lumenwerx reserves the right to modify



Housing

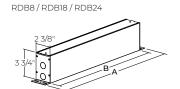


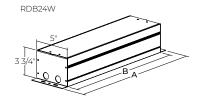




- For height dimension C, see the PLENUM CLEARANCE & CUT-OUT DIMENSIONS table below.
- $\hbox{- For OF, IC, CP, and AT installation types with remote dimming, a remote driver box is provided.}\\$

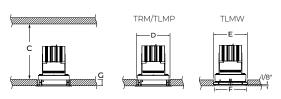
REMOTE DRIVER BOX





	RDB8	RDB18	RDB24	RDB24W
Α	10"	20"	26"	26"
В	8"	18"	24"	24"
DRIVER	RDI - 1% 0-10V RELV - ELV 120V RTRI - TRIAC 120V RPEQO - 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
	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	0.1% SOLOdrive 0-10V

PLENUM CLEARANCE & CUT-OUT DIMENSIONS



		PLENUM CLEARANCE HEIGHT
		REMOTE & INTEGRAL
	OF	4 1/8" (14 W/20 W) 5 1/2" (28 W)
c	IC	6 1/2"
'	CP/AT	7"
	RM	4 1/8" (14 W/20 W) 5 1/2" (28 W)

		CUT-OUT DIMENSIONS
D	TRM/TLMP	Ø 4 1/2"
E	T1 5 4547	Ø 4 1/2"
F	TLMW	Ø 4 1/16" with 1/8" lip

	MAXIMUM CEILING THICKNESS										
	TRM/TLMP	13/8"									
G	TLMW	5/8"									

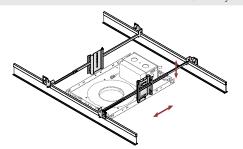




Housing

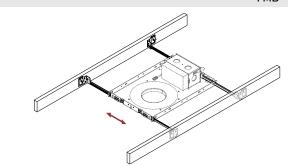
MOUNTING OPTIONS

ASB - Adjustable Standard Bar Hangers



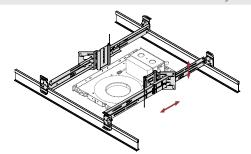
Adjustable Standard Bar hangers can be used in both commercial and residential applications and are adjustable to various heights in both Grid Ceiling and Drywall mounting. ASB hangers are less rigid and versatile than ACB hangers.

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.

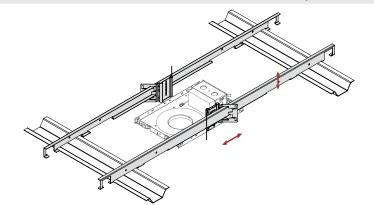
ACB - Adjustable Commercial Bar Hangers



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

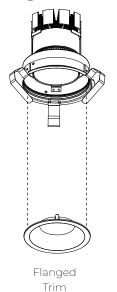


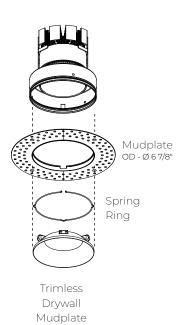
Adjustable Hat Channel bars can be used in both commercial and residential applications and come with a butterfly clip to adjust to various heights. AHC bars can be hung downward by 90 degrees in vertical position, and once wired, can be shifted onto the horizontal mounting plane. AHC bars are suitable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

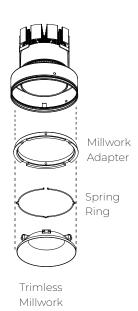


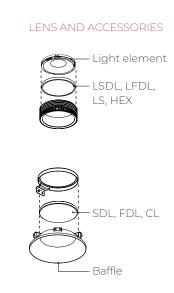


Light & Baffle









TRM Flanged Trim	TLMP/TLMW Trimless Drywall Mudplate /Trimless Millwork
Baffle finish Trim flange finish	
Ø 4 13/16" Ø 2 1/2" 3/8"	Ø 4 1/16" Ø 2 1/2"
7/8" Cut-off 49° Shielding	7/8" Tiso Cut-off Ago Shielding



Color Quality

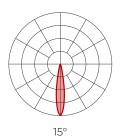
COLOR QUALITY - 3500K TM-30 R_f 92 TM-30 R_a 100 90 R9 > 50

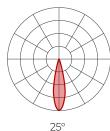


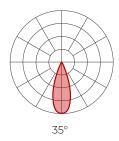
Photometrics

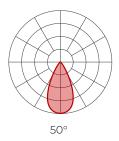
STATIC WHITE

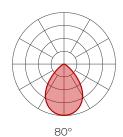
Values calculated based on 3500K, bevel baffle, and SDL lens option.













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°			
14 W	1399	1437	1384	1356	1220	1220	1077	1106	1066	1044	940	940	1497	1538	1481	1451	1306	1306			
20 W	1952	2006	1931	1893	1704	1704	1503	1545	1487	1458	1312	1312	2089	2146	2066	2026	1823	1823			
28 W	2621	2693	2593	2541	2287	2287	2018	2074	1997	1957	1761	1761	2804	2882	2775	2719	2447	2447			

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°		
14 W	100	103	99	97	87	87	77	79	76	75	67	67	107	110	106	104	93	93		
20 W	98	100	97	95	85	85	75	77	74	73	66	66	104	107	103	101	91	91		
28 W	94	96	93	91	82	82	72	74	71	70	63	63	100	103	99	97	87	87		

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

ССТ		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 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





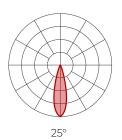


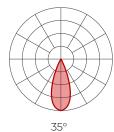


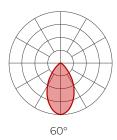
Photometrics

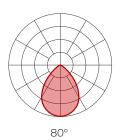
SOLA/DUO

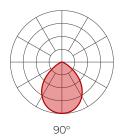
Values calculated based on bevel baffle and SDL lens option.











SOLA

ВЕАМ		2	25° 35°		5°	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
20 VV	2700K	1920	69	1945	69	1850	66	1590	57	1460	52

DUO

BEAM		2	5°	3.	5°	6	0°	8	0°	90°	
		lm	lm/W								
	6500K	2005	72	2055	73	1980	71	1700	61	1565	56
28 W	5000K	2005	72	2055	73	1980	71	1700	61	1565	56
	2700K	1780	64	1820	65	1740	62	1495	53	1375	49

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 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

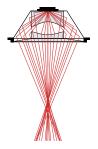




Technical Specifications

OPTIC

XPoint™ Refraction Technology optics provide precise optical control in a remarkably compact form. Micro optical paths from the chip on board converge and then disperse in precise beam angles, resulting in a crisp and exacting light quality.



Static white

Compact COB (Chip-On-Board) LED module, available in 2700K, 3000K, 3500K and 4000K with a choice of 80 CRI, 90 CRI, or 95 CRI, with elevated R9 value for 90 CRI and above. Color consistency is maintained to within 2 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated. 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.

FL FCTRICAL

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 T-series (tunable white)

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 - 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, longlife, 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. 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.

 $\textbf{XPoint}^{\intercal}\textbf{M} \ \textbf{Refraction Technology optic} : \ \textbf{Micro optical paths from}$ 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: 4.5 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.

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.

