



# 8CRDI LED 8" Direct/Indirect Cylinder – Round

## FEATURES

### TrimLock®

- High-output illumination for tall ceilings
- Smoothly accent walls and eliminate dark ceilings with direct and indirect lighting
- Parallel the performance and style of the Williams downlight collection
- Superior optical control with beams as narrow as 10° and field changeable optics as wide as 65°
- Complement the architectural elements of any space with a multitude of housing, trim and cord finishes
- Precision-engineered extruded aluminum housing and die-cast aluminum trim face for clean aesthetic
- Variety of cord colors available in standard or braided for custom design
- Wireless in-fixture control solutions available

## SPECIFICATIONS

- HOUSING** – Extruded aluminum with die-cast aluminum accent ring.
- FINISH** – Polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- TRIMLOCK** – Innovative TrimLock® reflector retention system ensures trim remains secure.
- OPEN REFLECTOR** – Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- LENSED TRIM** – Die-cast aluminum frame with micro-prismatic lens (acrylic downlight, tempered glass uplight).
- ELECTRICAL** – High-performance Class 2 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000 hours.
- MOUNTING** – Cable or wall mount. Indoor applications only. Max weight 20 lbs.
- LISTINGS** –
  - cCSAus conforms to UL STD 1598 and UL STD 8750. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for dry and damp locations.
  - Complies with the Buy American Act and other federal regulations. Request certification at [hew.com/baa](http://hew.com/baa).
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

## FIXTURE PERFORMANCE DATA

DIST.	WATTAGE	DOWNLIGHT						UPLIGHT WALL MOUNT			UPLIGHT CABLE MOUNT					
		OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS		WATTAGE	OPEN REFLECTOR		WATTAGE	OPEN REFLECTOR		FLUSH LENS		
		DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)		DELIVERED LUMENS	EFFICACY (lm/W)		DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	
L10	W	8.7	1014	117	674	77	660	76	8.6	924	107	9.0	871	97	681	76
	M	8.7	982	113	895	103	895	103	8.6	895	104	9.0	847	94	–	–
	N	8.7	1003	115	914	105	882	101	8.6	914	106	9.0	848	94	–	–
L15	W	13.8	1497	108	994	72	972	70	13.7	1364	100	13.9	1243	89	1004	72
	M	13.8	1495	108	1319	96	1319	96	13.7	1362	99	13.9	1247	90	–	–
	N	13.8	1528	111	1347	98	1300	94	13.7	1392	102	13.9	1249	90	–	–
L20	W	19.1	1988	104	1352	71	1323	69	18.9	1812	96	19.8	1700	86	1366	69
	M	19.1	1983	104	1794	94	1795	94	18.9	1807	96	19.8	1697	86	–	–
	N	19.1	2026	106	1833	96	1769	93	18.9	1846	98	19.8	1699	86	–	–
L30	W	26.9	3062	114	2022	75	1979	74	26.6	2790	105	27.8	2531	91	2043	73
	M	26.9	3003	112	2683	100	2685	100	26.6	2736	103	27.8	2459	88	–	–
	N	26.9	3000	112	2741	102	2646	98	26.6	2734	103	27.8	2318	83	–	–
L40	W	36.5	4094	112	2695	74	2638	72	36.1	3731	103	38.0	3373	89	2722	72
	M	36.5	4016	110	3577	98	3579	98	36.1	3660	101	38.0	3277	86	–	–
	N	36.5	4011	110	3654	100	3527	97	36.1	3655	101	38.0	3089	81	–	–
L50	W	43.9	5014	114	3364	77	3292	75	43.4	4569	105	45.2	4344	96	3398	75
	M	43.9	4935	112	–	–	–	–	43.4	4497	104	45.2	4202	93	–	–
	N	43.9	5047	115	–	–	–	–	43.4	4599	106	45.2	4085	90	–	–
L60	W	54.0	6043	112	3827	71	3745	69	53.4	5507	103	46.3	5220	113	4083	88
	M	54.0	5948	110	–	–	–	–	53.4	5420	101	46.3	5049	109	–	–
	N	54.0	6083	113	–	–	–	–	53.4	5543	104	46.3	4908	106	–	–
L70	W	55.9	6964	125	3364	60	3292	59	55.3	6386	115	–	–	–	–	–
	M	55.9	6855	123	–	–	–	–	55.3	6286	114	–	–	–	–	–
	N	55.9	7011	125	–	–	–	–	55.3	6428	116	–	–	–	–	–

## MULTIPLIER TABLES

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.92
	3000K	0.98
	3500K	1.00
	4000K	1.01
	5000K	1.02
90 CRI	2700K	0.76
	3000K	0.79
	3500K	0.82
	4000K	0.84
	5000K	0.88

	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
O TRIM	CS	1.00
	SG <sup>(1)</sup>	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
	RG	0.88
	WH <sup>(1)</sup>	0.89
	BL <sup>(1)</sup>	0.47
	P TRIM	WH
CS <sup>(1)</sup>		0.98
BL <sup>(1)</sup>		0.79
BZ <sup>(1)</sup>		0.76
NK <sup>(1)</sup>		0.81
SV <sup>(1)</sup>		0.81
AL <sup>(1)</sup>	0.86	

TRIM OPTIONS	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85
TD	0.75

## BEAM ANGLE

	TRIM TYPE					
	DOWNLIGHT			WM UPLIGHT	CM UPLIGHT	
	OPEN	FLUSH	REGRESSED	OPEN	OPEN	FLUSH
W	65°	55°	55°	65°	65°	50°
M	35°	35°	35°	35°	45°	35°
N	10°	25°	25°	10°	10°	25°

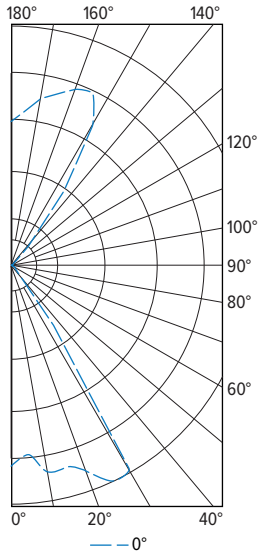
- Distribution will also be affected, consult factory.
- Photometrics tested in accordance with IESNA LM-79. Results based on O trim type, W distribution and CS reflector finish, 80 CRI/3500K CCT, average wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
  - Wattage is for downlight or uplight components. Add wattages together for selected lumen packages to find total fixture wattage.
  - To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
  - Use multiplier tables to calculate additional options.



# 8CRDI LED 8" Direct/Indirect Cylinder – Round

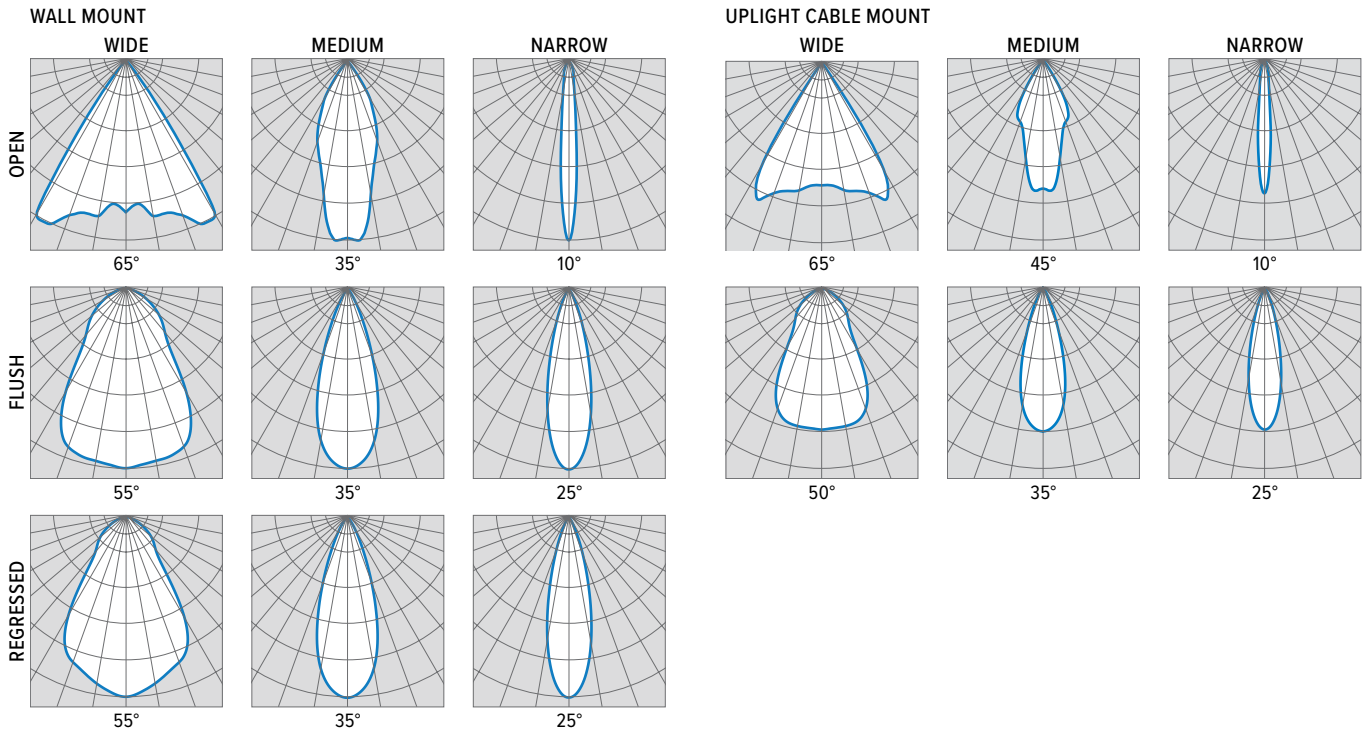
## PHOTOMETRY

8CRDI-TL-L20/835U/L20/835D-DIM-UNV-OW/OW-CS-WM Total Luminaire Output: 3919 lumens; 36.9 Watts | Efficacy: 106 lm/W | 80 CRI; 3500K CCT

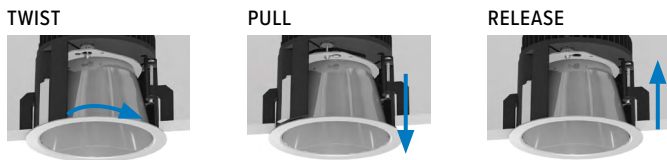


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1672	
	5	1579	158
	15	1735	498
	25	1982	895
	35	604	490
	45	46	39
	55	13	13
	65	2	3
	75	0	0
	85	0	1
	90	4	
	95	4	5
	105	6	7
	115	10	10
	125	21	20
	135	53	67
	145	755	469
	155	1585	699
	165	1470	420
	175	1285	126
	180	1193	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1551	40
	0 - 40	2041	52
	0 - 60	2093	53
	0 - 90	2097	54
	90 - 120	21	1
	90 - 150	578	15
	90 - 180	1822	47
	0 - 180	3919	100

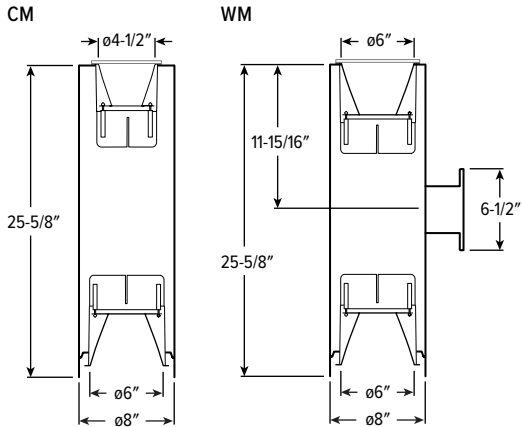


## TRIMLOCK DETAILS



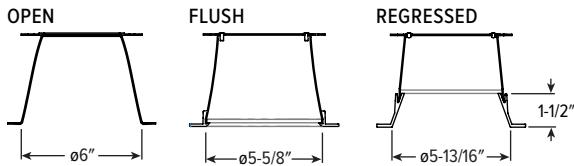
# 8CRDI LED 8" Direct/Indirect Cylinder – Round

## CROSS SECTIONS

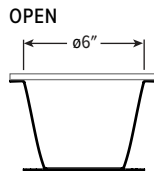


## TRIM TYPE DETAILS

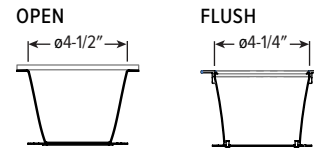
### DOWNLIGHT



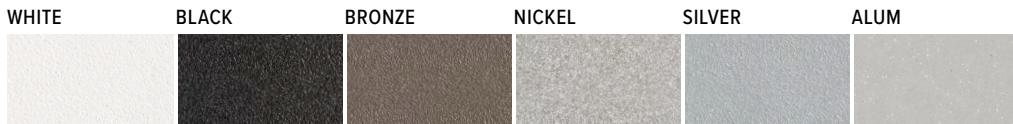
### UPLIGHT WALL MOUNT



### UPLIGHT CABLE MOUNT



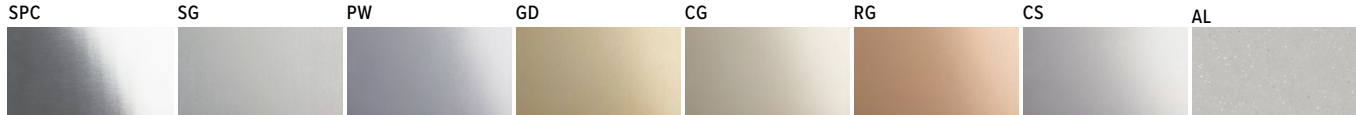
## HOUSING FINISH DETAILS



For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

## REFLECTOR FINISH DETAILS

### Smooth Finish



### Textured Finish



## EMERGENCY BATTERY OPTIONS

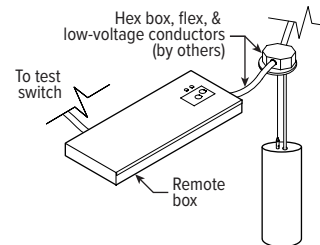
Max remote distance 50', including suspension length. Emergency light defaults to downlight output. Specify CEC in the option code when California Energy Commission regulations are required.

CATALOG NUMBER	DESCRIPTION
EM/7WRM	Remote mount 7-watt emergency battery
EM/7WRM/RTS	Remote mount 7-watt emergency battery with regressed test switch <sup>[1]</sup>
EM/10WRM	Remote mount 10-watt emergency battery
EM/10WRM/RTS	Remote mount 10-watt emergency battery with regressed test switch <sup>[1]</sup>
EM/12WRM	Remote mount 12-watt emergency battery <sup>[2]</sup>
EM/12WRM/RTS	Remote mount 12-watt emergency battery with regressed test switch <sup>[1]</sup> <sup>[2]</sup>

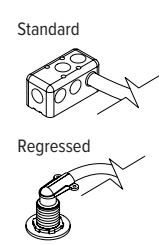
<sup>1</sup> For use in grid ceiling installations only.

<sup>2</sup> Not available when CEC regulations are required.

### RDB OPTION DETAILS



### TEST SWITCH DETAILS



# 8CRDI LED 8" Direct/Indirect Cylinder – Round

## MOUNTING DETAILS

### CABLE MOUNT (CM\_\_)



Cable mount fixtures are provided with:

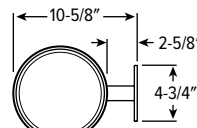
- Adjustable length aircraft cable, must specify length in 24", 48", 96", or 144" inches.
- 18-gauge cord in choice of 9 colors, see Cord Options for ordering info.
- One 5" canopy
- T-bar clip with 1/4-20 stud
- Hard ceiling anchor provided by others

### WALL MOUNT (WM)

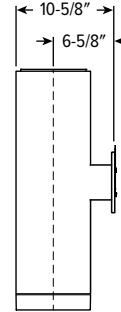


Mounts to 4" square J-box

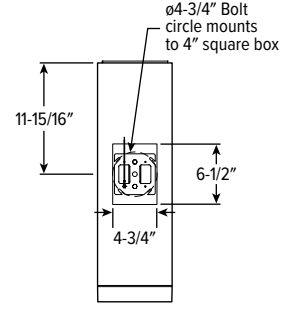
TOP VIEW



SIDE VIEW



BACK VIEW



## CORD OPTIONS

Must specify cord when cable mounting.

ORDERING EXAMPLE: S2438/W				
CORD TYPE	LENGTH	# CONDUCTORS	WIRE SIZE	COLOR
S Straight	24 24"	3 3	8 18-gauge	<b>Standard</b>
	48 48"	4 4		/W White
	96 96"	5 5		/B Black
		6 6		<b>Braided<sup>[1]</sup></b>
				/WH White
				/BL Black
			/BR Brass	
			/AE Aegean Blue	
			/RE Red	
			/SV Silver	
			/GU Gunmetal	
			/NK Nickel	
			/GR Gray	

### COLOR DETAILS

Additional colors may be available, consult factory.



<sup>1</sup> (5) conductors cord only.

SEE NEXT PAGE FOR CONTROL DETAILS



# 8CRDI LED 8" Direct/Indirect Cylinder – Round

## AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

### FEATURES

#### Simple

- Gateway-free distributed control
- Factory pre-commissioning
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

#### Scalable

- Virtually unlimited network size
- Spans small offices to large warehouses
- Flexible control strategies

#### Secure

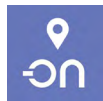
- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

### COMMISSIONING & INSTALLATION TOOLS

Avi-on mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers. Live commissioning training and on-site or remote support by Avi-on must be ordered separately through Avi-on.



Commissioning Mobile App

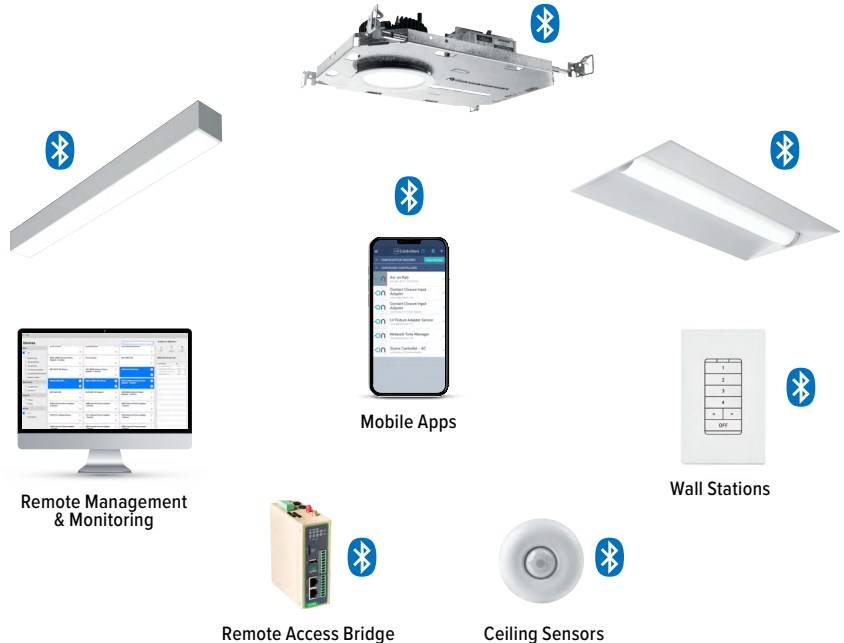


Zone Scanner Web App



Commissioning Pro App

### SYSTEM COMPONENTS



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### ACCESSORIES

WALL STATIONS	
AVI-2401AC	Scene controller - numbered 1-4, 120-277VAC
AVI-2402BAT	Scene controller - numbered 1-4, battery powered
AVI-2401AC-2	Dimmer with presets - percentages, 120-277VAC
AVI-2402BAT-2	Dimmer with presets - percentages, battery powered
AVI-2401AC-3	On/off/dimming, 120-277VAC
AVI-2402BAT-3	On/off/dimming, battery powered

NETWORK
AVI-RAB-LTE Remote access bridge
AVI-KIT-NTM Network time manager with battery backup
CEILING MOUNT SENSORS
AVI-KIT-SEN-DUCM PIR motion and ultrasonic sensor kit
AVI-KIT-SEN-ICM PIR motion and photocell sensor kit

For load controllers and additional accessory info, see [hew.com/avi-on](http://hew.com/avi-on)

### ADDITIONAL CONTROL/DRIVER OPTIONS

Lumen restrictions apply: L40 max for DMX and LDE1 drivers, L60 max for DALI driver, L15 min to L60 max for DIM LINE driver. Lutron Athena control and DMX driver installed in remote box, must specify RDB Option. 347V only available with DIM and DIM1 drivers.

CATALOG NUMBER	DESCRIPTION
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power. Up and down switch together.
AVI-LVFA/DA-U/D	Avi-on wireless fixture control for use with driver with 12V auxiliary power. Up and down switch separately.
AWN/DA	Lutron Athena wireless node fixture control, RF only, for use with driver with 12V auxiliary power. Up and down switch together.
AWN/DA-U/D	Lutron Athena wireless node fixture control, RF only, for use with driver with 12V auxiliary power. Up and down switch separately.
DIM	Dimming driver prewired for 0-10V low voltage applications; entire fixture switches and dims together
DIMU/DIMD	Dimming driver prewired for 0-10V low voltage applications; up and down portions switch and dim separately
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM1U/DIM1D	1% dimming driver prewired for 0-10V low voltage applications; up and down portions switch separately
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM LINEU/DIM LINED	Line voltage switching and line voltage dimming; up and down portions switch separately
DMX	0.1% dimming driver for DMX controls
DMX/DMX	0.1% dimming driver for DMX controls; up and down portions switch separately
DALI	DALI dimming driver
DALI/DALI	DALI dimming driver; up and down portions switch separately
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver
LDE1/LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver; up and down portions switch separately

### RDB OPTION DETAILS

