



# 8CRDI tunable WHITE

## 8" Compact Direct/Indirect Cylinder – Round

### FEATURES

- Support human-centric design with adaptive, individualized lighting using tunable white light
- Engineered to deliver great performance in a sleek, space-saving design
- 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
- 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 LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>50,000 hours. Tunable White products use LEDs of multiple CCTs and may produce a perceptibly different shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- MOUNTING** – Cable or wall mount. Indoor applications only. Control, driver, and EM battery installed in remote mount box.
- 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)	
L13	W	14.6	1320	90	1135	78	1089	75	14.6	1203	82	14.6	1088	75	1039	71
	M	14.6	1317	90	1220	84	1183	81	14.6	1200	82	14.6	1086	74	–	–
	N	14.6	1345	92	1231	84	1199	82	14.6	1226	84	14.6	1088	75	–	–
L23	W	24.0	2357	98	1964	82	1900	79	24.0	2148	90	24.0	1941	81	1799	75
	M	24.0	2285	95	2117	88	2059	86	24.0	2082	87	24.0	1863	78	–	–
	N	24.0	2187	91	2129	89	2075	86	24.0	1993	83	24.0	1778	74	–	–
L42	W	44.9	4304	96	3596	80	3480	78	44.9	3922	87					
	M	44.9	4173	93	–	–	–	–	44.9	3803	85					
	N	44.9	3994	89	–	–	–	–	44.9	3640	81					

### MULTIPLIER TABLES

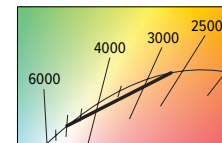
COLOR TEMPERATURE		
CCT	LUMENS	WATTS
2700K	0.83	1.03
3000K	1.00	1.00
3500K	0.99	0.99
4000K	1.00	1.00
5000K	0.98	1.03

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

	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
	R 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	

### 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 WH (L and R Trim Types) or CS (O Trim Type) Reflector Finish, W Distribution, 80 CRI/4000K 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.

PHOTOMETRY CONTINUED ON NEXT PAGE.

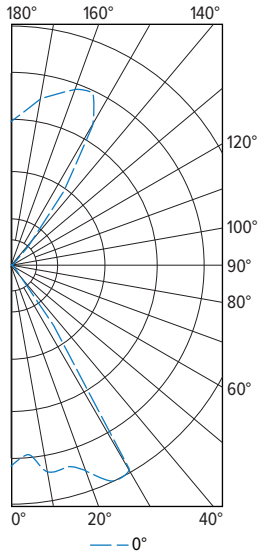


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## 8" Compact Direct/Indirect Cylinder – Round

### PHOTOMETRY

8CRDI-TL-20-L23/8TWU/L23/8TWD-DIM-UNV-OW/OW-CS-WM Total Luminaire Output: 4629 lumens; 48 Watts | Efficacy: 96 lm/W | 80 CRI; 4000K CCT

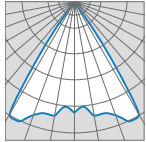


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1983	
	5	1873	187
	15	2058	591
	25	2351	1062
	35	716	576
	45	55	46
	55	15	16
	65	2	3
	75	0	0
	85	0	1
	90	4	
	95	5	5
	105	7	8
	115	12	12
	125	25	23
	135	63	69
	145	893	548
	155	1875	835
	165	1739	497
	175	1521	150
	180	1410	

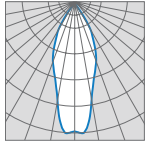
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
		0 - 30	1840
	0 - 40	2416	52
	0 - 60	2478	54
	0 - 90	2482	54
	90 - 120	25	1
	90 - 150	666	14
	90 - 180	2148	46
	0 - 180	4629	100

#### WALL MOUNT

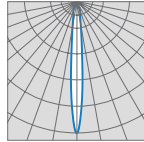
##### OPEN



65°

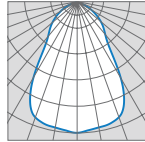


35°

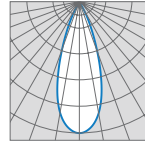


10°

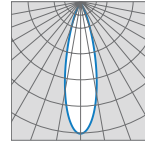
##### FLUSH



55°

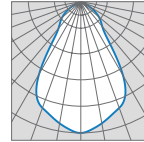


35°

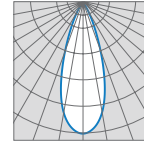


25°

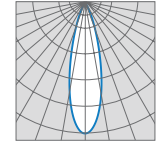
##### REGRESSED



55°



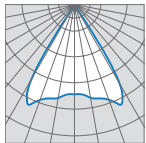
35°



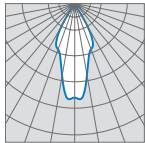
25°

#### UPLIGHT CABLE MOUNT

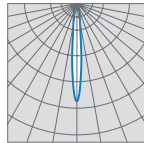
##### OPEN



65°

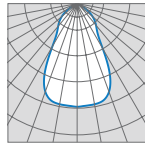


45°

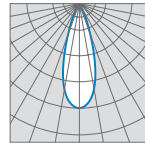


10°

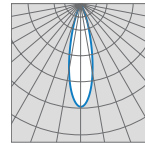
##### FLUSH



50°



35°



25°

SEE NEXT PAGE FOR CONTROL DETAILS.



# 8CRDI tunable WHITE

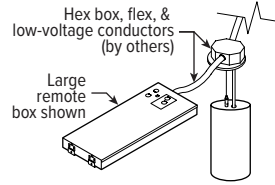
## 8" Compact Direct/Indirect Cylinder – Round

### CONTROL/DRIVER DETAILS

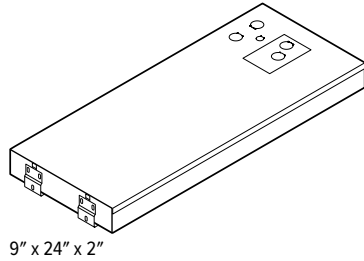
DRIVER/CONTROL	DESCRIPTION	RDB DETAILS BY LUMEN STOP			
		L13	L23	L42	w/EM
DIM	Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT prewired for low voltage applications	R   L	R   L	R   L	R   L
DMX	Driver prewired for DMX applications	R   L	R   L	R   L	R   L
DALI	DALI dimming driver	R   L	R   L	R   L	R   L
LD2	Lutron DALI-2 digital driver, 1%	R   L	R   L	R   L	R   L
AWNR/LD2	Lutron Athena wireless node integral fixture control, RF only, for use with DALI-2 digital driver, 1%	R   L	R   L	R   L	R   L

### REMOTE MOUNT DETAILS

Max remote distance is 50' including suspension. Must be room-side accessible for maintenance.



### LARGE



### REMOTE MOUNT KEY

R   L	RDB Required, Large Box
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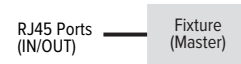
### DIM



### DALI



### DMX



### LUTRON T-SERIES

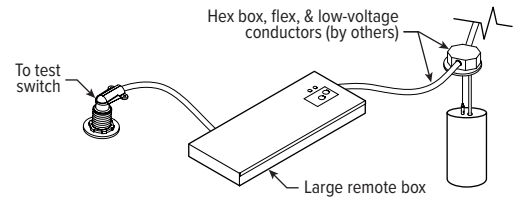


### EMERGENCY BATTERY OPTIONS

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

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

<sup>1</sup> Not available when CEC regulations are required.



### TRIMLOCK DETAILS

#### TWIST



#### PULL



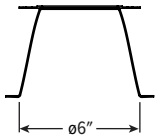
#### RELEASE



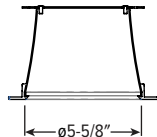
### TRIM TYPE DETAILS

#### DOWNLIGHT

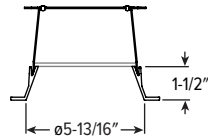
##### OPEN



##### FLUSH

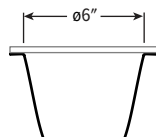


##### REGRESSED



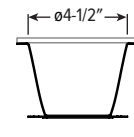
#### UPLIGHT WALL MOUNT

##### OPEN

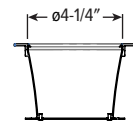


#### UPLIGHT CABLE MOUNT

##### OPEN

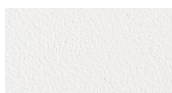


##### FLUSH



### HOUSING FINISH DETAILS

#### WHITE



#### BLACK



#### BRONZE



#### NICKEL



#### SILVER



#### ALUM



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.



# 8CRDI tunable WHITE

## 8" Compact Direct/Indirect Cylinder – Round

### REFLECTOR FINISH DETAILS

#### Smooth Finish



#### Textured Finish



### MOUNTING DETAILS

#### CABLE MOUNT (CM\_)



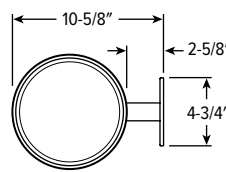
Provided with:

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

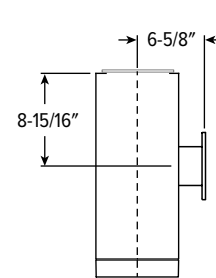
#### WALL MOUNT (WM)



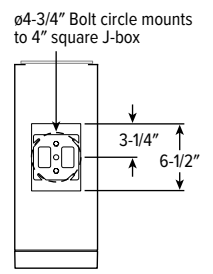
#### TOP VIEW



#### 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	3	8 18-gauge	Standard
	48	4		/W White
	96	5		/B Black
		6		Braided <sup>[1]</sup>
				/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.

