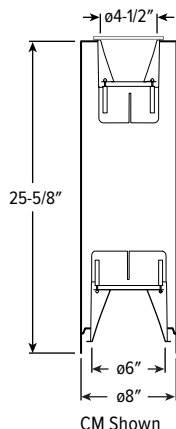


# 8CRDI tunable WHITE

## 8" Direct/Indirect Cylinder – Round



CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_



ORDERING EXAMPLE: 8CRDI - TL - L23/8TWU/L23/8TWD - OPTIONS - WHT - DIM - UNV - LW/LM - CS - TRIM OPTIONS - CM

### HOUSING

SERIES	LUMEN PACKAGE (Example: L23/8TWU/L13/8TWD)	OPTIONS	HOUSING FINISH	CONTROL <sup>[1]</sup>	VOLTAGE
8CRDI - TL	Specify lumen packages: <b>U</b> for Up and <b>D</b> for Down	See page 4 for EMERGENCY BATTERY OPTIONS.	<b>ALUM</b> Silver sparkle aluminum	<b>DALI</b> Driver prewired for DALI applications	<b>UNV</b> 120-277V
TrimLock	<b>LUMENS</b> <sup>[4]</sup> <b>COLOR</b> <b>U OR D</b>	<b>F</b> Fuse	<b>BLK</b> Textured black	<b>DIM</b> Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT	
	<b>L13</b> 1,300lm <b>8TW</b> Tunable white (80 CRI, 2700K-5000K)	<b>RDB</b> Remote mount control/driver box, painted black <sup>[2]</sup>	<b>BRZ</b> Textured bronze	<b>DMX</b> Driver prewired for DMX applications <sup>[3]</sup>	
	<b>L23</b> 2,300lm		<b>NKL</b> Textured nickel	<b>PSQ</b> Lutron T-Series 2-channel tunable white 1%	
	<b>L42</b> 4,200lm		<b>SLV</b> Textured silver		
			<b>WHT</b> Textured white		

### TRIM

TRIM TYPE AND DISTRIBUTION <sup>[5]</sup>	REFLECTOR FINISH <sup>[6]</sup>	TRIM OPTIONS
(Example Uplight/Downlight: LW/LM)		
<b>TRIM TYPE</b>	<b>Downlight Open Trim Types</b>	<b>Downlight Lens Trim Types</b>
<b>Uplight</b>	<b>CS</b> Clear semi-specular anodize	<b>CS</b> Clear semi-specular powder coat
<b>O</b> Open reflector with clear glass shield <sup>[10]</sup>	<b>SG</b> Satin-glow anodize	<b>WH</b> White texture powder coat
<b>L</b> Flush lens <sup>[11]</sup>	<b>GD</b> Gold anodize	<b>BL</b> Black texture powder coat
	<b>CG</b> Champagne gold anodize	<b>BZ</b> Bronze texture powder coat
	<b>PW</b> Pewter anodize	<b>NK</b> Nickel texture powder coat
	<b>SPC</b> Clear specular anodize	<b>SV</b> Silver texture powder coat
<b>Downlight</b>	<b>RG</b> Rose gold anodize	<b>AL</b> Silver sparkle aluminum
<b>O</b> Open reflector	<b>WH</b> White texture powder coat	
<b>L</b> Flush lens	<b>BL</b> Black texture powder coat	
<b>R</b> Regressed lens		
<b>DISTRIBUTION</b>		
<b>Uplight</b>		
<b>W</b> 65° Wide		<b>AD</b> Diffuse acrylic lens <sup>[7]</sup>
<b>M</b> 35° Medium <sup>[12]</sup>		<b>PD</b> Diffuse 1/8" polycarbonate lens <sup>[8]</sup>
<b>N</b> 10° Narrow <sup>[13]</sup>		<b>TD</b> Diffuse polycarbonate lens media at top of open reflector <sup>[9]</sup>
<b>Downlight</b>		
<b>W</b> 65° Wide		
<b>M</b> 35° Medium <sup>[14]</sup>		
<b>N</b> 10° Narrow <sup>[15]</sup>		

### MOUNTING

#### MOUNTING TYPE <sup>[16]</sup>

**CM** Adjustable aircraft cable mount, 24", 48", 96", or 144" only, must specify. Example: 24" cable = **CM24** <sup>[17]</sup>

**WM** Wall mount

### NOTES

- See page 5 for CONTROL DETAILS.
- Painted white available, specify RDB/WHT.
- CM Mounting Type only.
- Lumen output based on O trim type, W distribution and CS finish, 4000K/80CRI. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- Beam angle based on O Trim Type, WM Mounting Type and CS Reflector Finish. Trim Type affects beam angle. See page 2 for FIXTURE PERFORMANCE DATA.
- Specified for Downlight Trim Type only. See page 4 for REFLECTOR FINISH DETAILS.
- Not available with O trim type. Downlight only. W distribution only.
- Not available with O trim type. Downlight only. W distribution only.
- O Trim Type only. Downlight only. Not available with L42 lumen package max.
- CS Reflector Finish standard. Other colors available, consult factory.
- Not available with WM Mounting Type. Trim finish matches Housing Finish. Other colors available, consult factory.
- O Trim Type only.
- O Trim Type only.
- Not available with L42 lumen package when specified with L or R trim types.
- Not available with L42 lumen package when specified with L or R trim types.
- See page 5 for MOUNTING DETAILS.
- Uplight not available with L42 lumen package. Canopy painted white unless specified otherwise. Must specify cord. See page 5 for CORD OPTIONS.



# 8CRDI tunable WHITE

## 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
- Support human-centric design with adaptive, individualized lighting using tunable white light
- 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

### 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. 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

		DOWNLIGHT							UPLIGHT WALL MOUNT			UPLIGHT CABLE MOUNT				
		WATTAGE	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)
DIST.																
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

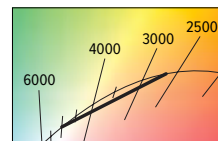
COLOR TEMPERATURE		
CCT	LUMENS	WATTS
2700K	0.83	1.03
3000K	1.00	1.00
3500K	0.99	0.99
4000K	1.00	1.00
5000K	0.98	1.03

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
R TRIM	WH <sup>[1]</sup>	0.89
	BL <sup>[1]</sup>	0.47
	WH	1.00
	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 shown are based on 25°C ambient temperature.
- Wattage shown is based on 120V input.
- Results based on 4000K/80CRI and CS (O Trim Type) or WH (L and R Trim Types) Reflector Finish. Actual lumens 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.



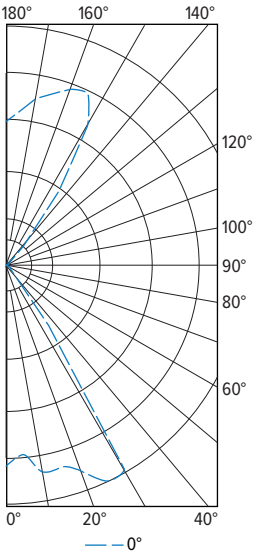
8CRDI

tunable WHITE

8" Direct/Indirect Cylinder – Round

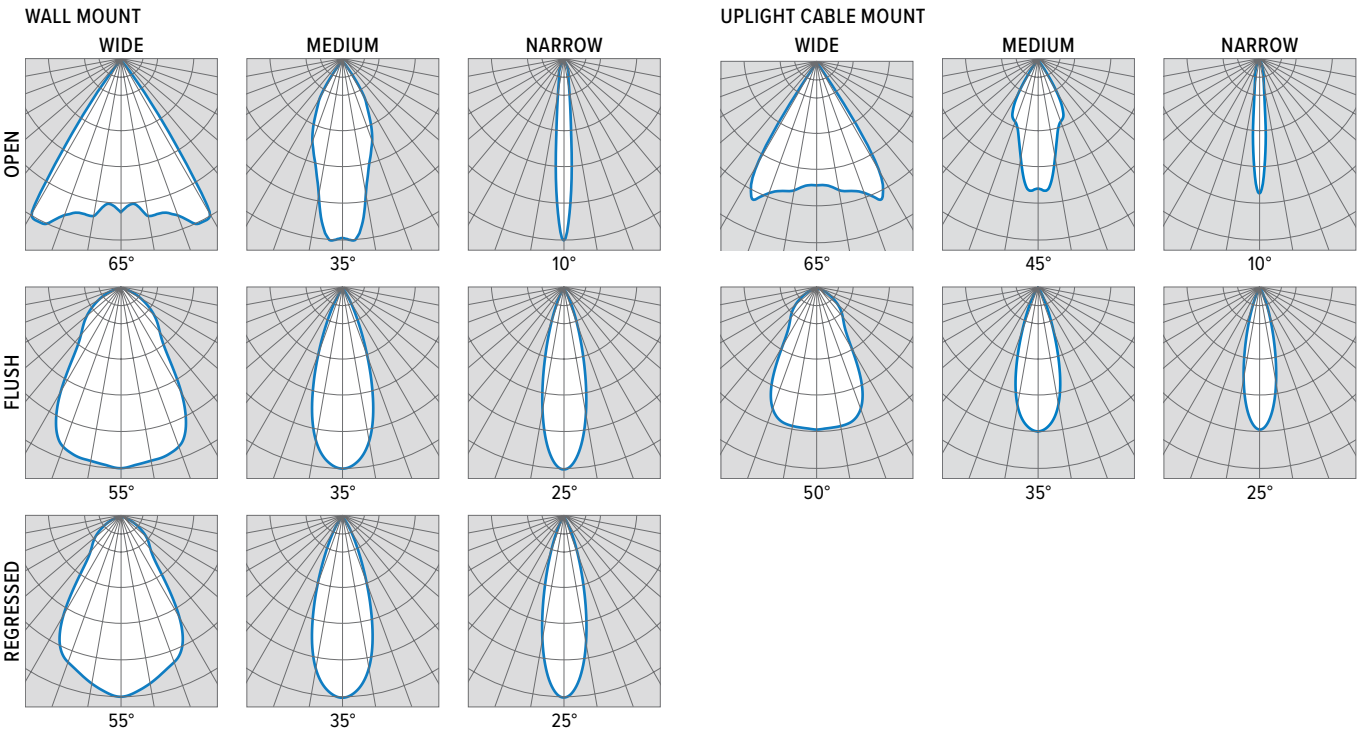
PHOTOMETRY

8CRDI-TL-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

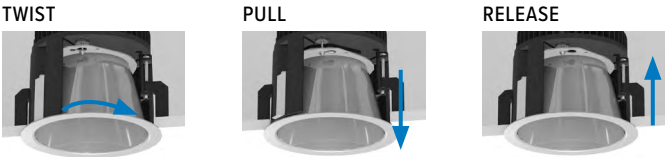


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1983	
	5	1873	187
	15	2058	591
	25	2351	1062
	35	716	576
	45	55	46
	55	15	16
	65	2	3
	75	0	0
	85	0	1
	90	4	
	95	5	5
	105	7	8
	115	12	12
	125	25	23
	135	63	69
	145	893	548
	155	1875	835
	165	1739	497
	175	1521	150
	180	1410	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1840	40
	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



TRIMLOCK DETAILS

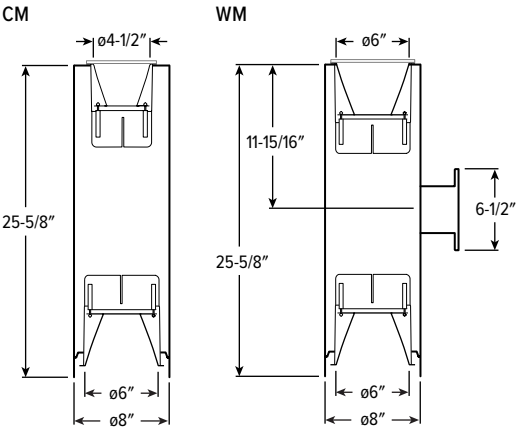


8CRDI

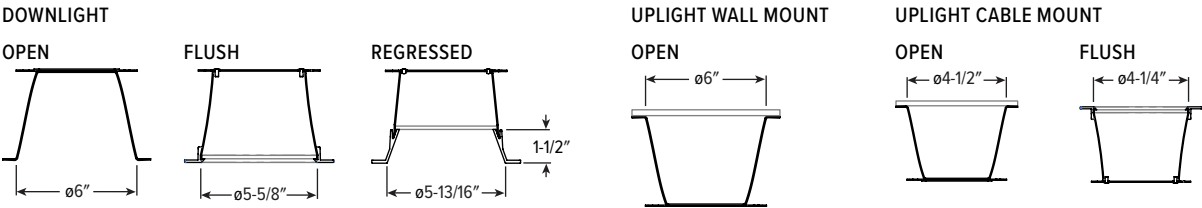
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8" Direct/Indirect Cylinder – Round

CROSS SECTIONS



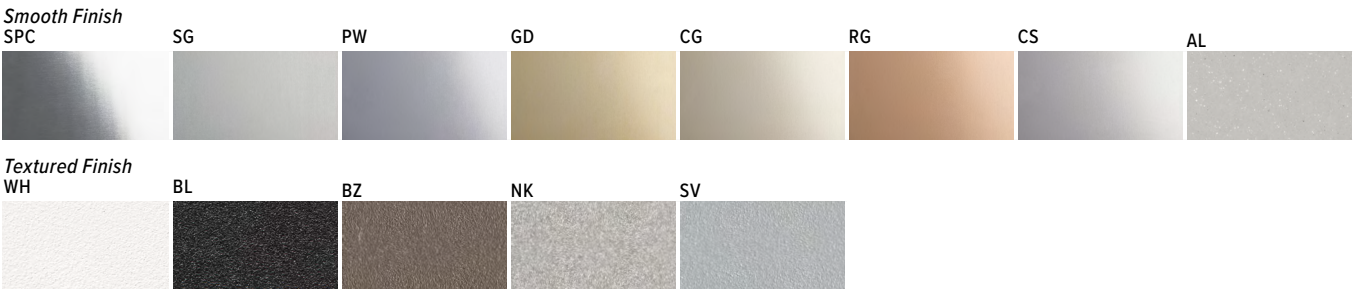
TRIM TYPE DETAILS



HOUSING FINISH DETAILS



REFLECTOR FINISH DETAILS



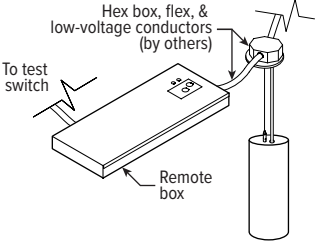
EMERGENCY BATTERY OPTIONS

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.

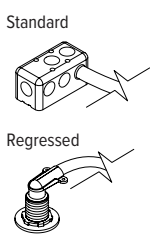
CATALOG NUMBER	DESCRIPTION
EM/7WRM	Remote mount 7-watt emergency battery
EM/7WRM/RTS	Remote mount 7-watt emergency battery with regressed test switch <sup>[1]</sup>
EM/10WRM	Remote mount 10-watt emergency battery
EM/10WRM/RTS	Remote mount 10-watt emergency battery with regressed test switch <sup>[1]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



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8" Direct/Indirect Cylinder – Round

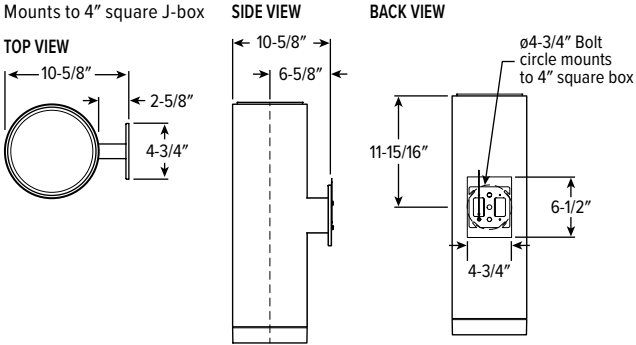
MOUNTING DETAILS

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)



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

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

COLOR DETAILS

Additional colors may be available, consult factory.



CONTROL DETAILS

DIM



DALI



DMX



LUTRON T-SERIES

