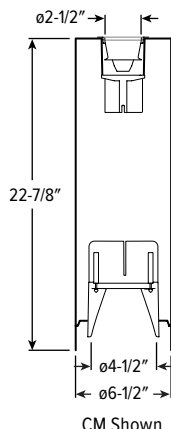


# 6CRDI<sup>LED</sup> 6.5" Direct/Indirect Cylinder – Round



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

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

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

## FEATURES

### TrimLock®

- Wide range of lumen options for general illumination
- Smoothly accent walls and eliminate dark ceilings with direct and indirect lighting
- Parallel the performance and style of the Williams downlight collection
- Precision illumination with 10° narrow to 65° wide optics
- Complement the architectural elements of any space with a multitude of housing, trim and cord finishes

## 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, tempered glass lens.
- 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 14-1/2 lbs.
- LISTINGS** –
  - cCSAus conforms to UL STD 1598 and UL STD 8750. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for damp locations.
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

ORDERING EXAMPLE: 6CRDI - TL - L20/835U/L20/835D - WHT - DIM - UNV - LW/LM - CS - TRIM OPTIONS - CM MOUNT.

## HOUSING

SERIES	LUMEN PACKAGE (Example: L30/835U/L15/835D)	HOUSING FINISH <sup>[1]</sup>	CONTROL <sup>[2]</sup>	VOLTAGE
6CRDI - TL TrimLock	Specify lumen packages: <b>U</b> for Uplight and <b>D</b> for Downlight	<b>ALUM</b> Silver sparkle aluminum	<b>DIM</b> Entire fixture switches and dims together <sup>[3]</sup>	<b>UNV</b> 120-277V
	<b>LUMENS <sup>[4]</sup></b>	<b>U OR D</b>		<b>347</b> 347V
	<b>L10</b> 1,000lm	<b>U</b> Uplight		
	<b>L12</b> 1,200lm <sup>[5]</sup>	<b>D</b> Downlight		
	<b>L15</b> 1,500lm			
	<b>L20</b> 2,000lm			
	<b>L30</b> 3,000lm			
	<b>L40</b> 4,000lm			
	<b>L50</b> 5,000lm			
	<b>L60</b> 6,000lm			

## TRIM

TRIM TYPE AND DISTRIBUTION <sup>[7]</sup>  
(Example Uplight/Downlight: LW/LM)

TRIM TYPE	DISTRIBUTION
<b>Uplight</b>	<b>Uplight</b>
<b>O</b> Open reflector with clear glass shield <sup>[12]</sup>	<b>W</b> 65° Wide
<b>L</b> Flush lens <sup>[13]</sup>	<b>M</b> 45° Medium <sup>[14]</sup>
	<b>N</b> 10° Narrow <sup>[15]</sup>
<b>Downlight</b>	<b>Downlight</b>
<b>O</b> Open reflector	<b>W</b> 65° Wide
<b>L</b> Flush lens	<b>M</b> 45° Medium <sup>[16]</sup>
<b>R</b> Regressed lens	<b>N</b> 10° Narrow <sup>[17]</sup>

## REFLECTOR FINISH <sup>[8]</sup>

<b>Downlight Open Trim Types</b>
<b>CS</b> Clear semi-specular anodize
<b>SG</b> Satin-glow anodize
<b>GD</b> Gold anodize
<b>CG</b> Champagne gold anodize
<b>PW</b> Pewter anodize
<b>SPC</b> Clear specular anodize
<b>RG</b> Rose gold anodize
<b>WH</b> White texture powder coat
<b>BL</b> Black texture powder coat

<b>Downlight Lens Trim Types</b>
<b>CS</b> Clear semi-specular powder coat
<b>WH</b> White texture powder coat
<b>BL</b> Black texture powder coat
<b>BZ</b> Bronze texture powder coat
<b>NK</b> Nickel texture powder coat
<b>SV</b> Silver texture powder coat
<b>AL</b> Silver sparkle aluminum

## TRIM OPTIONS

<b>AD</b> Diffuse acrylic lens <sup>[9]</sup>
<b>PD</b> Diffuse 1/8" polycarbonate lens <sup>[10]</sup>
<b>TD</b> Diffuse polycarbonate lens media at top of open reflector <sup>[11]</sup>

## MOUNTING

### MOUNTING TYPE <sup>[18]</sup>

<b>CM</b> Adjustable aircraft cable mount, 24" length standard Example: 24" cable = <b>CM24</b> <sup>[19]</sup>
<b>WM</b> Wall mount

### NOTES

- See page 5 for HOUSING FINISH DETAILS.
- See page 4 for ADDITIONAL CONTROL OPTIONS.
- Requires 5 conductor cord.
- Lumen output based on O trim type, W distribution and CS finish, 3500K/80CRI. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA
- Uplight CM Mounting Type only.
- Extended lead times may apply. Consult factory for availability.

- 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 5 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 L60 lumen package.
- CS Reflector Finish standard. Other colors available, consult factory.

- Trim finish matches Housing Finish. Other colors available, consult factory.
- O Trim Type only when specified with WM Mounting Type.
- O Trim Type only.
- O Trim Type only when specified with L50 or L60 lumen packages.
- O Trim Type only when specified with L50 or L60 lumen packages.
- See page 5 for MOUNTING DETAILS.
- L20 lumen package max for uplight. 48" and 96" lengths available. Canopy painted white unless specified otherwise. Must specify cord. See page 5 for CORD OPTIONS.



# 6CRDI<sup>LED</sup> 6.5" Direct/Indirect Cylinder – Round

## FIXTURE PERFORMANCE DATA

		DOWNLIGHT							UPLIGHT WALL MOUNT					UPLIGHT CABLE MOUNT					
		WATTAGE	OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS		WATTAGE	OPEN REFLECTOR		FLUSH LENS		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)	DELIVERED LUMENS	EFFICACY (lm/W)	
L10	DIST.	W	9.0	1027	114	674	75	660	73	9.0	871	97	681	76	10.6	760	72	1019	96
		M	9.0	999	111	895	99	895	99	9.0	847	94	—	—	10.6	734	69	1004	95
		N	9.0	1000	111	914	102	882	98	9.0	848	94	—	—	10.6	653	62	—	—
L12		W	—	—	—	—	—	—	—	—	—	—	—	—	14.2	1036	73	1390	98
		M	—	—	—	—	—	—	—	—	—	—	—	—	14.2	1001	70	1369	96
		N	—	—	—	—	—	—	—	—	—	—	—	—	14.2	818	58	—	—
L15		W	13.9	1466	105	994	72	972	70	13.9	1243	89	1004	72	17.5	1285	73	1723	98
		M	13.9	1471	106	1319	95	1319	95	13.9	1247	90	—	—	17.5	1241	71	1697	97
		N	13.9	1473	106	1347	97	1300	94	13.9	1249	90	—	—	17.5	1014	58	-	-
L20		W	19.8	2005	101	1352	68	1323	67	19.8	1700	86	1366	69	23.2	1687	73	2263	98
		M	19.8	2002	101	1794	91	1795	91	19.8	1697	86	—	—	23.2	1630	70	2228	96
		N	19.8	2004	101	1833	93	1769	89	19.8	1699	86	—	—	23.3	1332	57	—	—
L30		W	27.8	2985	107	2022	73	1979	71	27.8	2531	91	2043	73					
		M	27.8	2900	104	2683	97	2685	97	27.8	2459	88	—	—					
		N	27.8	2734	98	2741	99	2646	95	27.8	2318	83	—	—					
L40		W	38.0	3979	105	2695	71	2638	69	38.0	3373	89	2722	72					
		M	38.0	3865	102	3577	94	3579	94	38.0	3277	86	—	—					
		N	38.0	3644	96	3654	96	3527	93	38.0	3089	81	—	—					
L50		W	45.2	5124	113	3364	74	3292	73	45.2	4344	96	3398	75					
		M	45.2	4956	110	—	—	—	—	45.2	4202	93	—	—					
		N	45.2	4818	107	—	—	—	—	45.2	4085	90	—	—					
L60		W	46.2	5830	126	3827	83	3745	81	46.3	5220	113	4083	88					
		M	46.2	5639	122	—	—	—	—	46.3	5049	109	—	—					
		N	46.2	5482	119	—	—	—	—	46.3	4908	106	—	—					

- 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 3500K/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.
- Use multiplier tables to calculate additional options.

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- Wattage shown is based on 120V input.
- Results based on 3500K/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.
- Use multiplier tables to calculate additional options.

### 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
R TRIM	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

TRIM OPTIONS	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85
TD	0.67

<sup>1</sup> Distribution will also be affected, consult factory.

### BEAM ANGLE

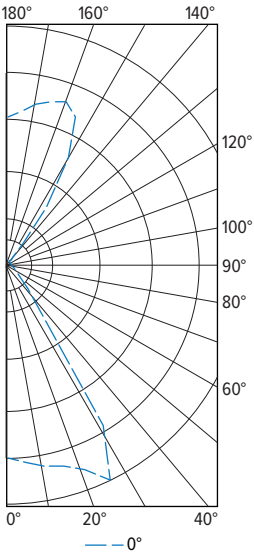
TRIM TYPE							
DOWNLIGHT			WM UPLIGHT		CM UPLIGHT		
	OPEN	FLUSH	REGRESSED	OPEN	FLUSH	OPEN	FLUSH
W	65°	50°	50°	65°	50°	70°	50°
M	45°	35°	30°	45°	35°	40°	30°
N	10°	25°	25°	10°	25°	15°	20°



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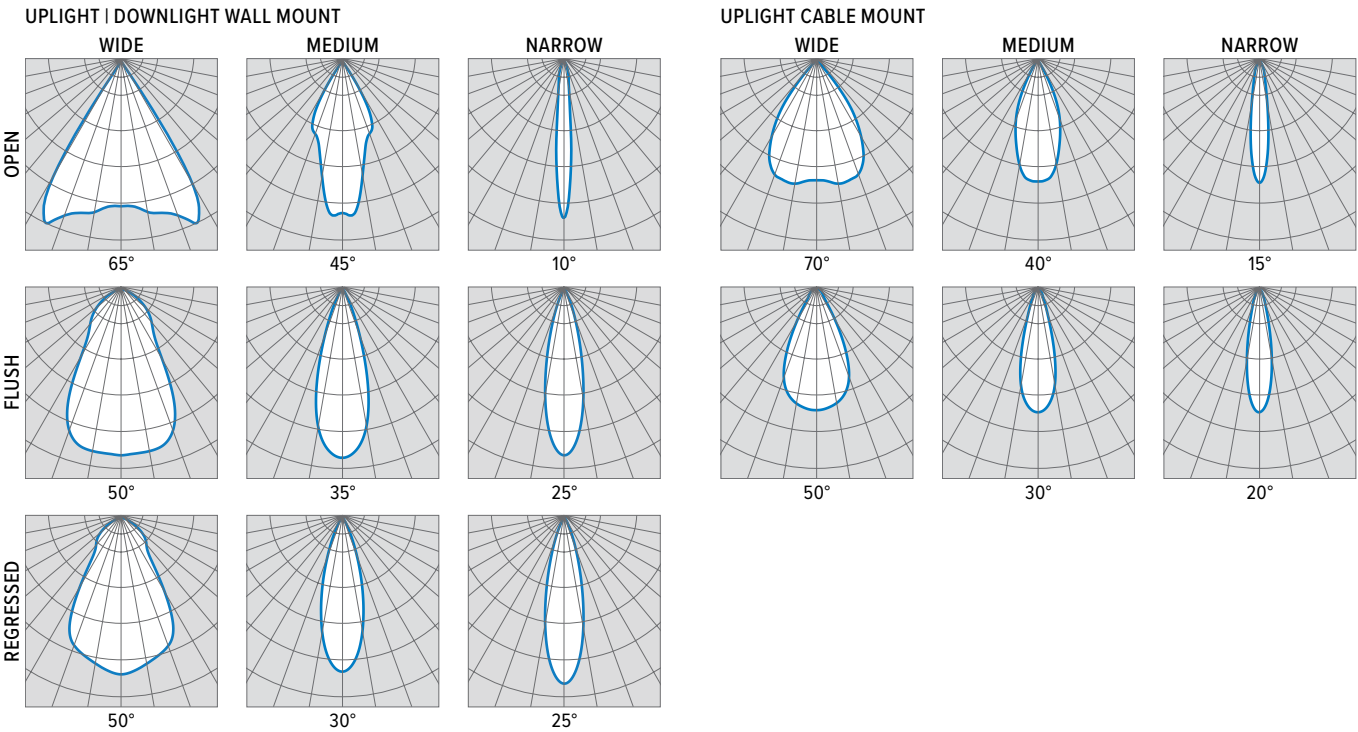
## PHOTOMETRY

6CRDI-TL-L20/835U/L20/835D-DIM-UNV-OW/OW-CS-WM Total Luminaire Output: 3820 lumens; 38.8 Watts | Efficacy: 98 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1810	
	5	1864	179
	15	1960	560
	25	2231	952
	35	307	367
	45	44	37
	55	11	11
	65	1	2
	75	0	0
	85	0	1
	90	3	
	95	4	4
	105	5	6
	115	9	9
	125	18	18
	135	58	68
	145	608	391
	155	1474	647
	165	1528	433
	175	1389	135
	180	1333	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1692	44
	0 - 40	2059	54
	0 - 60	2107	55
	0 - 90	2110	55
	90 - 120	19	1
	90 - 150	496	13
	90 - 180	1710	45
	0 - 180	3820	100



# 6CRDI<sup>LED</sup> 6.5" Direct/Indirect Cylinder – Round

## ADDITIONAL CONTROL OPTIONS

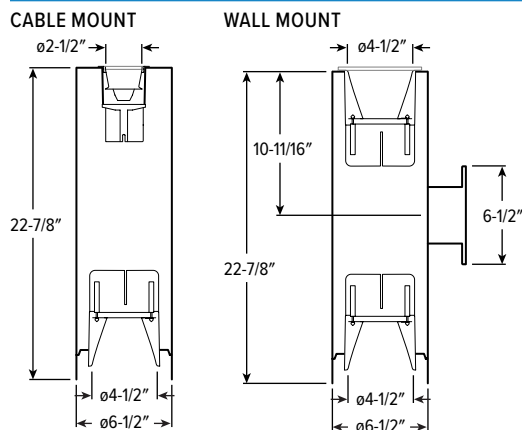
Lumen restrictions apply: L50 max for ELDO drivers and L40 max for Lutron drivers. 347V only available with DIM and DIM1 drivers.

CATALOG NUMBER	DESCRIPTION
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
LTE LINE	Lutron Hi-lume 1% 2-wire dimming driver forward phase line voltage controls (120V only)
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
ELDO SOLOB	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls
ELDO SOLOB/ELDO SOLOB	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls; up and down portions switch separately
ELDO SOLOB DALI	EldoLED Solodrive, 0.1% dimming driver for DALI controls
ELDO SOLOB DALI/ ELDO SOLOB DALI	EldoLED Solodrive, 0.1% dimming driver for DALI controls; up and down portions switch separately
ELDO ECO1	EldoLED Ecodrive, 1% dimming driver for 0-10V controls
ELDO ECO1/ELDO ECO1	EldoLED Ecodrive, 1% dimming driver for 0-10V controls; up and down portions switch separately
ELDO ECO1 DALI	EldoLED Ecodrive, 1% dimming driver for DALI controls
ELDO ECO1 DALI/ELDO ECO1 DALI	EldoLED Ecodrive, 1% dimming driver for DALI controls; up and down portions switch separately

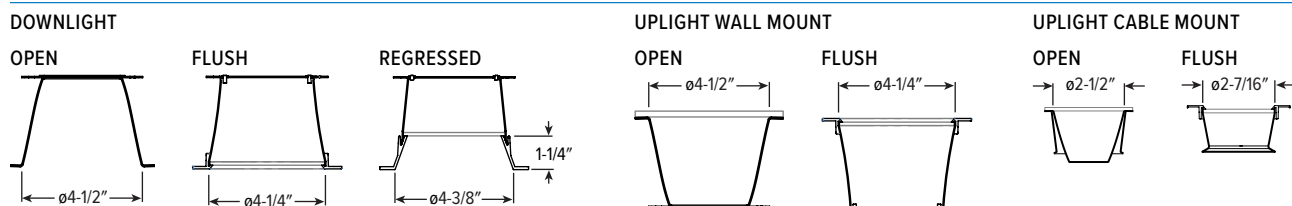
## TRIMLOCK DETAILS



## CROSS SECTIONS



## TRIM TYPE DETAILS



# 6CRDI<sup>LED</sup> 6.5" Direct/Indirect Cylinder – Round

## MOUNTING DETAILS

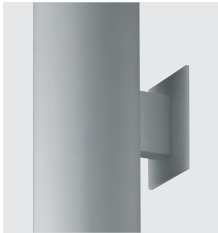
### CABLE MOUNT (CM\_)



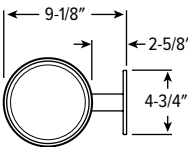
Cable mount fixtures are provided with:

- Adjustable length aircraft cable, must specify length in 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.



## 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 <sup>(1)</sup>		/W White
	96 96"	5 5		/B Black
		6 6 <sup>(1)</sup>		<b>Braided</b>
				/WH White
				/BL Black
				/BR Brass
				/AE Aegean Blue
				/RE Red
				/SV Silver
				/GU Gunmetal
				/NK Nickel
				/GR Gray

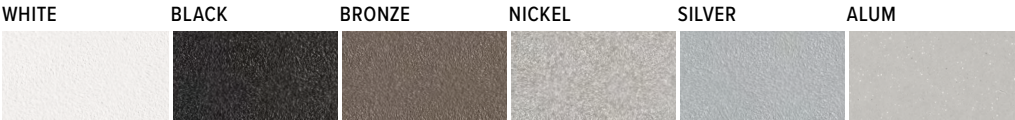
<sup>1</sup> Standard cord only.

### COLOR DETAILS

Additional colors may be available, consult factory.



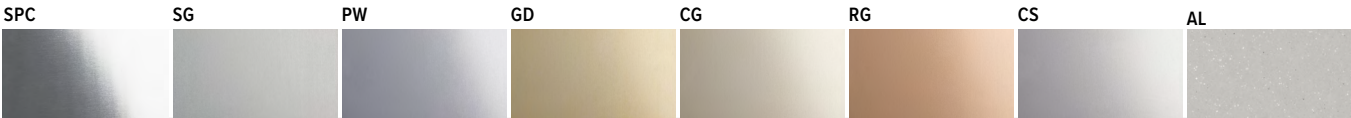
## HOUSING FINISH DETAILS



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

