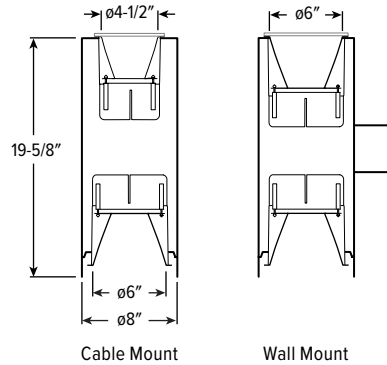


# 8CRDI LED

## 8" Compact Direct/Indirect Cylinder – Round



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

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

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



TrimLock

ORDERING EXAMPLE: 8CRDI - TL - 20 - L20/835U/L20/835D - RDB - OPTIONS - WHT - DIM - UNV - LW/LM - CS - TRIM OPTIONS - CM

HOUSING TRIM MOUNT.

### HOUSING

SERIES	HEIGHT	LUMEN PACKAGE (Example: L20/835U/L15/835D)	REMOTE	OPTIONS	HOUSING FINISH
8CRDI - TL	20 20"	Specify lumen packages: U for Up and D for Down	RDB Remote mount control/driver box, galvanized steel <sup>(1)</sup>	EM/10WRM/RTS Remote mount 10-watt emergency battery with regressed test switch <sup>(2)</sup>	ALUM Silver sparkle aluminum
TrimLock		LUMENS <sup>(3)</sup> CRI CCT U OR D		F Fuse	BLK Textured black
		L10 1,000lm 8 80 27 2700K U Uplight			BRZ Textured bronze
		L20 2,000lm 9 90 30 3000K D Downlight			NKL Textured nickel
		L30 3,000lm 35 3500K			SLV Textured silver
		L40 4,000lm 40 4000K			WHT Textured white
		L50 5,000lm 50 5000K			
		L60 6,000lm			
		L70 7,000lm			

### CONTROL

See page 4 for ADDITIONAL CONTROL/DRIVER OPTIONS.

– None

AVI-LVFA Avi-on wireless fixture control <sup>(4)</sup>

AWNRLutron Athena wireless node fixture control, RF only <sup>(5)</sup>

### DRIVER

See page 4 for ADDITIONAL CONTROL/DRIVER OPTIONS.

DIM Entire fixture switches and dims together <sup>(6)</sup>

DIM1 1% Dimming driver, 0-10V

DA Driver with 12V auxiliary power, without external dimming wires <sup>(7)</sup>

### VOLTAGE

UNV 120-277V

347 347V <sup>(8)</sup>

### TRIM

#### TRIM TYPE AND DISTRIBUTION

(Example Uplight/Downlight: LW/LM)

#### TRIM TYPE

##### Uplight

O Open reflector with clear glass shield <sup>(12)</sup>

L Flush lens <sup>(13)</sup>

##### Downlight

O Open reflector

F Open reflector with frosted top diffuser <sup>(14)</sup>

L Flush lens

R Regressed lens

#### DISTRIBUTION

See page 2 for BEAM ANGLE.

##### Uplight

W Wide

M Medium <sup>(15)</sup>

N Narrow <sup>(16)</sup>

##### Downlight

W Wide

M Medium <sup>(17)</sup>

N Narrow <sup>(18)</sup>

#### REFLECTOR FINISH <sup>(9)</sup>

##### Downlight Open Trim Types

CS Clear semi-specular anodize

SG Satin-glow anodize

GD Gold anodize

CG Champagne gold anodize

PW Pewter anodize

SPC Clear specular anodize

RG Rose gold anodize

WH White texture powder coat

BL Black texture powder coat

##### Downlight Lens Trim Types

CS Clear semi-specular powder coat

WH White texture powder coat

BL Black texture powder coat

BZ Bronze texture powder coat

NK Nickel texture powder coat

SV Silver texture powder coat

AL Silver sparkle aluminum

#### TRIM OPTIONS

AD Diffuse acrylic lens <sup>(10)</sup>

PD Diffuse 1/8" polycarbonate lens <sup>(11)</sup>

### MOUNTING

#### MOUNTING TYPE <sup>(19)</sup>

CM\_\_ Adjustable aircraft cable mount, 24", 48", 96", or 144" only, must specify. Example: 24" cable = CM24 <sup>(20)</sup>

WM Wall mount

### NOTES

<sup>1</sup> Painted driver box available, specify RDB/BLK or RDB/WHT.

<sup>2</sup> Max remote distance 50', including suspension length. Large remote box provided. EM light defaults to downlight output. Specify CEC in the option code when California Energy Commission regulations are required. See page 4 for EMERGENCY BATTERY DETAILS.

<sup>3</sup> Lumen output based on O Trim Type, W Distribution and CS Reflector Finish, 80 CRI/3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.

<sup>4</sup> DA Driver only. See page 6 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.

<sup>5</sup> DA Driver only.

<sup>6</sup> Requires 5 conductor cord.

<sup>7</sup> Avi-on and Lutron Athena Controls only.

<sup>8</sup> Not available with L70 lumen package, EM batteries, DA, or DMX drivers.

<sup>9</sup> Specified for Downlight Trim Type only. See page 5 for REFLECTOR FINISH DETAILS.

<sup>10</sup> Not available with O or F Trim Types. Downlight only. W Distribution only.

<sup>11</sup> Not available with O or F Trim Types. Downlight only. W Distribution only.

<sup>12</sup> CS Reflector Finish standard. Other colors available, consult factory.

<sup>13</sup> Not available with WM Mounting Type. Trim finish matches Housing Finish. Other colors available, consult factory.

<sup>14</sup> L50 lumen package max.

<sup>15</sup> O Trim Type only.

<sup>16</sup> O Trim Type only.

<sup>17</sup> Not available with lumen stops L50 and higher when specified with L or R trim types.

<sup>18</sup> Not available with lumen stops L50 and higher when specified with L or R trim types.

<sup>19</sup> See page 5 for MOUNTING DETAILS.

<sup>20</sup> Not available with L70 lumen package when specified with Uplight. Canopy painted white unless specified otherwise. Must specify cord. See page 5 for CORD OPTIONS.



# 8CRDI<sup>LED</sup> 8" Compact Direct/Indirect Cylinder – Round

## FEATURES

- Engineered to deliver great performance in a sleek, space-saving design
- 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
- Made Right Here® in the USA

## 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. 50/60 Hz constant current driver.
- 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.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at [hew.com/buy-american](http://hew.com/buy-american)
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty)

## FIXTURE PERFORMANCE DATA

	DIST.	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)
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	—	—
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	46.8	6021	129	4594	98	4248	91	46.8	5201	111	50.6	5372	106	4046	80
	M	46.8	5926	127	—	—	—	—	46.8	5120	109	—	—	—	—	—
	N	46.8	6061	130	—	—	—	—	46.8	5237	112	—	—	—	—	—
L70	W	53.5	7042	132	5371	100	4972	93	53.5	6417	120	—	—	—	—	—
	M	53.5	6932	130	—	—	—	—	53.5	6317	118	—	—	—	—	—
	N	53.5	7090	133	—	—	—	—	53.5	6461	121	—	—	—	—	—

## 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
F	0.75
AD	0.85
PD	0.85

## BEAM ANGLE

	TRIM TYPE <sup>[2]</sup>							
	DOWNLIGHT				WM UPLIGHT		CM UPLIGHT	
	O	F	L	R	O	O	L	
W	65°	70°	55°	55°	65°	65°	50°	
M	35°	35°	35°	35°	35°	45°	35°	
N	10°	20°	25°	25°	10°	10°	25°	

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

<sup>2</sup> Beam angle based on CS or WH Reflector Finish.

Photometrics tested in accordance with IESNA LM-79. Results based on CS (O Trim Type) or WH (L and R Trim Types) Reflector Finish, W Distribution, 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.

PHOTOMETRY CONTINUED ON NEXT PAGE.



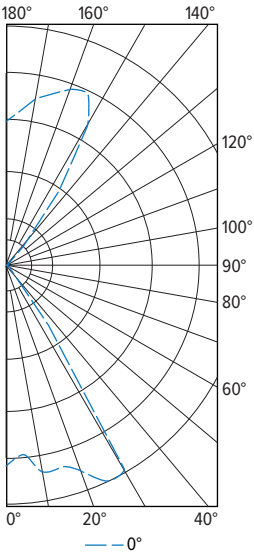
8CRDI

LED

8" Compact Direct/Indirect Cylinder – Round

PHOTOMETRY

8CRDI-TL-20-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

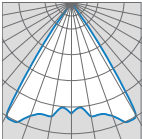


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1672	
	5	1579	158
	15	1735	498
	25	1982	895
	35	604	490
	45	46	39
	55	13	13
	65	2	3
	75	0	0
	85	0	1
	90	4	
	95	4	5
	105	6	7
	115	10	10
	125	21	20
	135	53	67
	145	755	469
	155	1585	699
	165	1470	420
	175	1285	126
	180	1193	

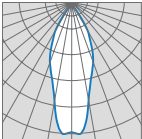
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1551	40
	0 - 40	2041	52
	0 - 60	2093	53
	0 - 90	2097	54
	90 - 120	21	1
	90 - 150	578	15
	90 - 180	1822	47
	0 - 180	3919	100

DOWNLIGHT

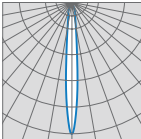
OPEN (O)



65° Wide

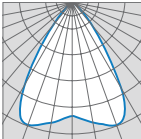


35° Medium

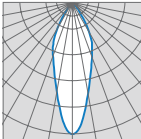


10° Narrow

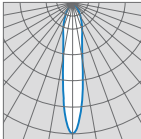
OPEN TOP DIFFUSER (F)



70° Wide

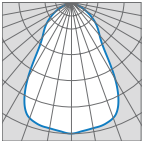


35° Medium

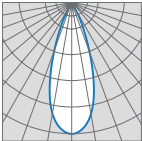


20° Narrow

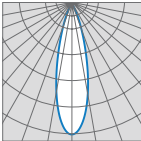
FLUSH (L)



55° Wide

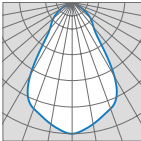


35° Medium

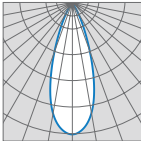


25° Narrow

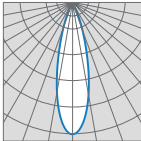
REGRESSED (R)



55° Wide



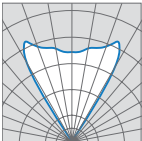
35° Medium



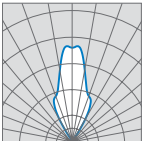
25° Narrow

UPLIGHT CABLE MOUNT

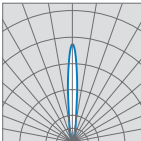
OPEN (O)



65° Wide

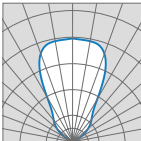


45° Medium

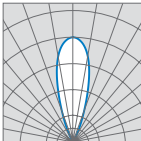


10° Narrow

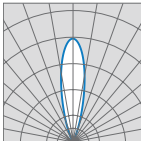
FLUSH (L)



50° Wide



35° Medium



25° Narrow

SEE NEXT PAGE FOR CONTROL DETAILS.



# 8CRDI<sup>LED</sup> 8" Compact Direct/Indirect Cylinder – Round

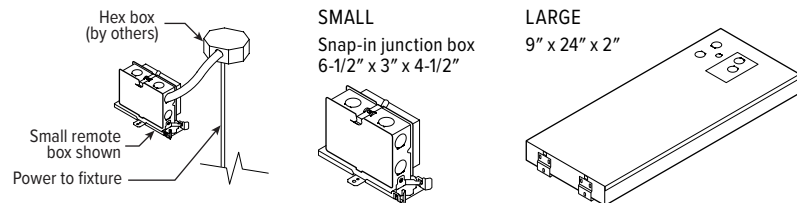
## ADDITIONAL CONTROL/DRIVER OPTIONS

Lumen restrictions apply: L40 max for DMX and LDE1 drivers, L60 max for DALI driver, L15 min to L60 max for DIM LINE driver. 347V only available with DIM and DIM1 drivers. If using two different stops for U/D, see highest lumen stop for RDB.

CONTROL/DRIVER	DESCRIPTION	RDB DETAILS BY LUMEN STOP							
		L10	L20	L30	L40	L50	L60	L70	w/EM
DIM	Dimming driver prewired for 0-10V low voltage applications; entire fixture switches and dims together	RIS	RIS	RIS	RIL	RIL	RIL	RIL	RIL
DIMU/DIMD	Dimming driver prewired for 0-10V low voltage applications; up and down portions switch and dim separately	RIS	RIS	RIS	RIL	RIL	RIL	RIL	RIL
DIM1	1% dimming driver prewired for 0-10V low voltage applications	RIS	RIS	RIS	RIL	RIL	RIL	RIL	RIL
DIM1U/DIM1D	1% dimming driver prewired for 0-10V low voltage applications; up and down portions switch separately	RIS	RIS	RIS	RIL	RIL	RIL	RIL	RIL
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)	—	RIS	RIS	RIL	RIL	RIL	—	RIL
DIM LINEU/DIM LINED	Line voltage switching and line voltage dimming; up and down portions switch separately	—	RIS	RIS	RIL	RIL	RIL	—	RIL
DMX	0.1% dimming driver for DMX controls	RIL	RIL	RIL	RIL	—	—	—	RIL
DMX/DMX	0.1% dimming driver for DMX controls; up and down portions switch separately	RIL	RIL	RIL	RIL	—	—	—	RIL
DALI	DALI dimming driver	RIL	RIL	RIL	RIL	RIL	—	—	RIL
DALI/DALI	DALI dimming driver; up and down portions switch separately	RIL	RIL	RIL	RIL	RIL	—	—	RIL
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver	RIL	RIL	RIL	RIL	—	—	—	RIL
LDE1/LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver; up and down portions switch separately	RIL	RIL	RIL	RIL	—	—	—	RIL
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power. Up and down switch together.	RIL	RIL	RIL	RIL	RIL	RIL	RIL	RIL
AVI-LVFA/DA-U/D	Avi-on wireless fixture control for use with driver with 12V auxiliary power. Up and down switch separately.	RIL	RIL	RIL	RIL	RIL	RIL	RIL	RIL
AWNDR/DA	Lutron Athena wireless node fixture control, RF only, for use with driver with 12V auxiliary power. Up and down switch together.	RIS	RIS	RIS	RIL	RIL	RIL	RIL	RIL
AWNDR/DA-U/D	Lutron Athena wireless node fixture control, RF only, for use with driver with 12V auxiliary power. Up and down switch separately.	RIS	RIS	RIS	RIL	RIL	RIL	RIL	RIL

## REMOTE MOUNT DETAILS

Max remote distance is 50', connection by others. Must be room-side accessible for maintenance.



## REMOTE MOUNT KEY

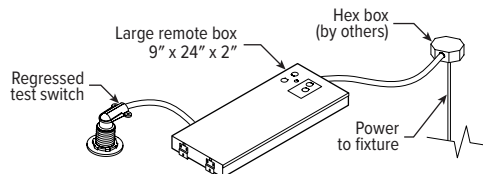
RIS	RDB Required, Small Box
RIL	RDB Required, Large Box

## EMERGENCY BATTERY DETAILS



Regressed test switch  
ø1-3/4"

Max remote distance is 50' including suspension length, connection by others.



## TRIMLOCK DETAILS

### TWIST



### PULL



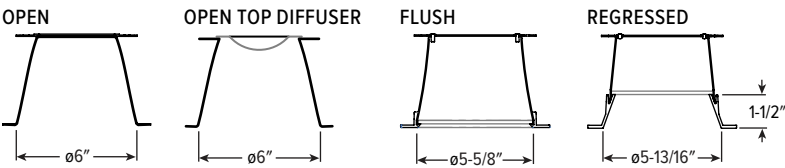
### RELEASE



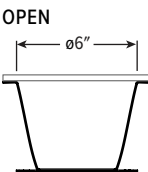
# 8CRDI<sup>LED</sup> 8" Compact Direct/Indirect Cylinder – Round

## TRIM TYPE DETAILS

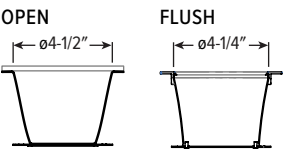
### DOWNLIGHT



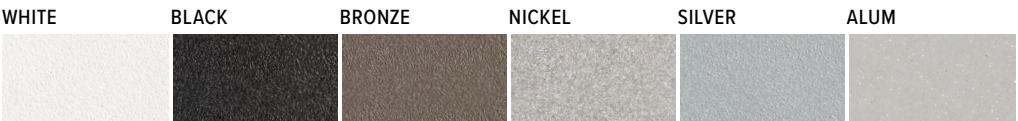
### UPLIGHT WALL MOUNT



### UPLIGHT CABLE MOUNT



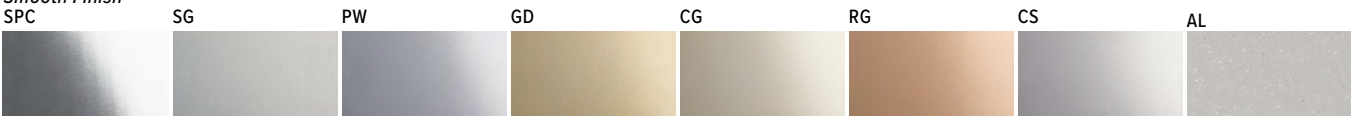
## HOUSING FINISH DETAILS



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 SPC



### Textured Finish WH



## MOUNTING DETAILS

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

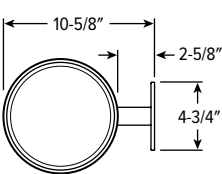


- Provided with:
- Adjustable length aircraft cable, must specify length in 24", 48", 96", or 144" inches.
  - 18-gauge cord, see Cord Options for ordering info.
  - One 5" canopy
  - T-bar clip with 1/4-20 stud
  - Hard ceiling anchor provided by others

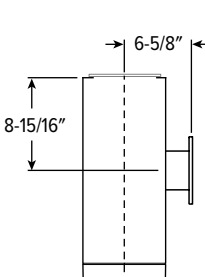
### WALL MOUNT (WM)



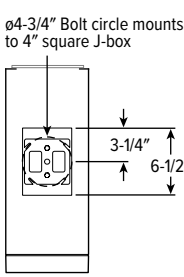
### TOP VIEW



### 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 24" 48 48" 96 96"	3 3 4 4 5 5 6 6	8 18-gauge	Standard
				/W White
				/B Black
				Braided <sup>[1]</sup>
				/WH White
				/BL Black
S Straight	24 24" 48 48" 96 96"	3 3 4 4 5 5 6 6	8 18-gauge	/BR Brass
				/AE Aegean Blue
				/RE Red
				/SV Silver
				/GU Gunmetal
				/NK Nickel
S Straight	24 24" 48 48" 96 96"	3 3 4 4 5 5 6 6	8 18-gauge	/GR Gray

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

## COLOR DETAILS

Additional colors may be available, consult factory.



# 8CRDI<sup>LED</sup> 8" Compact Direct/Indirect Cylinder – Round

## AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

### FEATURES

#### Simple

- Gateway-free distributed control
- 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

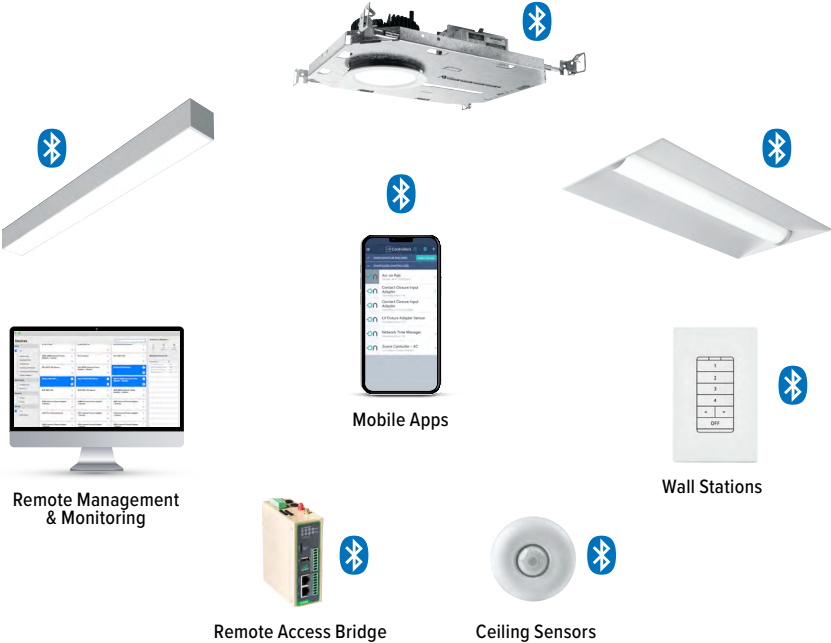


Zone Scanner  
Web App



Commissioning  
Pro App

### SYSTEM COMPONENTS



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### ACCESSORIES

WALL STATIONS	
AVI-B-2401AC-1	Scene controller - buttons numbered 1-4 and up/down/off, 120-277VAC
AVI-B-2402BAT-1	Scene controller - buttons numbered 1-4 and up/down/off, battery powered
AVI-B-2401AC-2	Dimmer with presets - buttons with percentages and up/down/off, 120-277VAC
AVI-B-2402BAT-2	Dimmer with presets - buttons with percentages and up/down/off, battery powered
AVI-B-2401AC-3	Two button control on/off or hold to dim up/down, 120-277VAC
AVI-B-2402BAT-3	Two button control on/off or hold to dim up/down, battery powered

NETWORK	
AVI-RAB-LTE	Remote access bridge
AVI-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)

