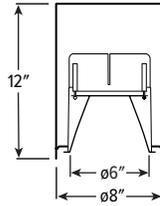


# 8CR LED 8" Compact Cylinder – Round



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

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

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



TrimLock® TwistLock®

ORDERING EXAMPLE: **8CR - TL - 12 - L20/835 - OPTIONS - WHT - CONTROL/DIM - UNV - OW - CS - TRIM OPTIONS - CM**  
 HOUSING TRIM MOUNT.

## HOUSING

SERIES	HEIGHT	LUMENS <sup>[1]</sup>		CRI	CCT	OPTIONS		HOUSING FINISH <sup>[2]</sup>
8CR - TL	12 12" <sup>[3]</sup>	<b>Integral Driver<sup>[4]</sup></b>	<b>Remote Driver</b>	8 80	27 2700K	<b>EM/10WRM/RTS</b>	Remote mount 10-watt emergency battery with regressed test switch <sup>[5]</sup>	<b>ALUM</b> Silver sparkle aluminum
TrimLock		<b>L10</b> 1,000lm	<b>L70</b> 7,000lm	9 90	30 3000K	<b>F</b>	Fuse	<b>BLK</b> Textured black
		<b>L20</b> 2,000lm	<b>L80</b> 8,000lm		35 3500K	<b>RDB</b>	Remote mount control/driver box, galvanized steel <sup>[6]</sup>	<b>BRZ</b> Textured bronze
		<b>L30</b> 3,000lm	<b>L90</b> 9,000lm		40 4000K			<b>NKL</b> Textured nickel
		<b>L40</b> 4,000lm	<b>L100</b> 10,000lm		50 5000K			<b>SLV</b> Textured silver
		<b>L50</b> 5,000lm						<b>WHT</b> Textured white
		<b>L60</b> 6,000lm						

## CONTROL

See page 3 for ADDITIONAL CONTROL/DRIVER OPTIONS.

– None

**AVI-LVFA** Avi-on wireless fixture control<sup>[7]</sup>

**AWNRR** Lutron Athena wireless node integral fixture control, RF only<sup>[8]</sup>

## DRIVER

See page 3 for ADDITIONAL CONTROL/DRIVER OPTIONS.

**DIM** Dimming driver, 0-10V

**DIM1** 1% Dimming driver, 0-10V

**DA** Driver with 12V auxiliary power, without external dimming wires<sup>[9]</sup>

## VOLTAGE

**UNV** 120-277V

**347** 347V<sup>[10]</sup>

## TRIM

TRIM TYPE	DISTRIBUTION	REFLECTOR FINISH <sup>[11]</sup>	TRIM OPTIONS
<b>O</b> Open reflector	See page 2 for BEAM ANGLE.	<b>Open Trim Types</b>	<b>Lens Trim Types</b>
<b>F</b> Open reflector with frosted top diffuser <sup>[12]</sup>	<b>W</b> Wide	<b>CS</b> Clear semi-specular anodize	<b>CS</b> Clear semi-specular powder coat
<b>L</b> Flush lens	<b>M</b> Medium <sup>[13]</sup>	<b>SG</b> Satin-glow anodize	<b>WH</b> White texture powder coat
<b>R</b> Regressed lens	<b>N</b> Narrow <sup>[14]</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>RG</b> Rose gold anodize	<b>AL</b> Silver sparkle aluminum
		<b>WH</b> White texture powder coat	
		<b>BL</b> Black texture powder coat	

## MOUNTING

### MOUNTING TYPE<sup>[17]</sup>

**CM** Adjustable aircraft cable mount, 24", 48", 96", or 144" only, must specify. Example: 24" cable = **CM24**<sup>[18]</sup>

**PM** Pendant mount. Example: 24" pendant = **PM24**<sup>[19]</sup>

**SM** TwistLock surface mount to octagonal J-box

**WM** Wall mount

## NOTES

- 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
- See page 4 for HOUSING FINISH DETAILS.
- Must specify RDB Option with L70 lumen package and higher.
- Restrictions apply. See page 3 for ADDITIONAL CONTROL/DRIVER OPTIONS.
- Max remote distance 50', including suspension length. Large remote box provided. Specify CEC in the option code when California Energy Commission regulations are required. See page 3 for EMERGENCY BATTERY DETAILS.
- Painted driver box available, specify RDB/BLK or RDB/WHT.
- DA Driver only. See page 6 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- DA Driver only. SM Mounting Type installed in remote box, must specify RDB Option.
- Avi-on and Lutron Athena Controls only.

- RDB Option required when specified with L70 to L100 lumen packages. Not available with EM batteries, DA, or DMX drivers.
- See page 4 for REFLECTOR FINISH DETAILS.
- L50 lumen package max.
- Not available with lumen stops L50 and higher when specified with L or R Trim Types.
- Not available with lumen stops L50 and higher when specified with L or R Trim Types.
- Not available with O or F Trim Types. W Distribution only.
- Not available with O or F Trim Types. W Distribution only.
- See page 5 for MOUNTING DETAILS.
- Canopy painted white unless specified otherwise. Must specify cord. See page 5 for CORD OPTIONS.
- Specify length in 1" increments, minimum 6". Canopy and pendant match fixture housing color unless specified otherwise.



# 8CR LED 8" Compact Cylinder – Round

## FEATURES

- Engineered to deliver great performance in a sleek, space-saving design
- 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
- Limitless application opportunities via pendant, cable, wall and ceiling mounts
- Ensure a simple and secure installation with TwistLock™ surface mount
- Industry-leading efficacies as high as 117 lm/W
- 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, acrylic 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 – Surface, cable, pendant, or wall mount. Indoor applications only.
- 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

	DISTRIBUTION	WATTAGE	OPEN REFLECTOR TRIM TYPE		FLUSH LENS TRIM TYPE		REGRESSED LENS TRIM TYPE	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
L10	W	8.7	1014	117	774	89	716	82
	M	8.7	982	113	910	105	883	101
	N	8.7	1003	115	909	104	897	103
L20	W	19.0	1988	105	1562	82	1445	76
	M	19.1	1983	104	1837	96	1782	93
	N	19.1	2026	106	1836	96	1812	95
L30	W	26.9	3062	114	2335	87	2160	80
	M	26.9	3003	112	2782	103	2699	100
	N	26.9	3000	112	2718	101	2683	100
L40	W	36.5	4094	112	3122	86	2889	79
	M	36.4	4016	110	3720	102	3609	99
	N	36.4	4011	110	3635	100	3587	99
L50	W	43.9	5014	114	3824	87	3537	81
	M	43.9	4935	112	–	–	–	–
	N	43.9	5047	115	–	–	–	–
L60	W	54.0	6043	112	4609	85	4264	79
	M	54.0	5948	110	–	–	–	–
	N	54.0	6083	113	–	–	–	–
<b>RDB OPTION REQUIRED</b>								
L70	W	67.8	7008	103	5345	79	4945	73
	M	67.8	6898	102	–	–	–	–
	N	67.8	7055	104	–	–	–	–
L80	W	79.8	8018	100	6115	77	5657	71
	M	79.8	7891	99	–	–	–	–
	N	79.8	8071	101	–	–	–	–
L90	W	70.8	9077	128	6923	98	6404	90
	M	70.8	8934	126	–	–	–	–
	N	70.8	9136	129	–	–	–	–
L100	W	79.7	10018	126	7640	96	7068	89
	M	79.7	9860	124	–	–	–	–
	N	79.7	10083	127	–	–	–	–

## MULTIPLIER TABLES

	COLOR TEMPERATURE		REFLECTOR FINISH	
	CCT	CONVERSION FACTOR	CATALOG NUMBER	CONVERSION FACTOR
80 CRI	2700K	0.92	CS	1.00
	3000K	0.98	SG <sup>(1)</sup>	0.92
	3500K	1.00	GD	0.93
	4000K	1.01	CG	0.96
	5000K	1.02	PW	0.86
90 CRI	2700K	0.76	SPC	1.02
	3000K	0.79	RG	0.88
	3500K	0.82	WH <sup>(1)</sup>	0.89
	4000K	0.84	BL <sup>(1)</sup>	0.47
	5000K	0.88	WH	1.00
TRIM OPTIONS	CATALOG NUMBER	CONVERSION FACTOR	CS <sup>(1)</sup>	0.98
	F	0.75	BL <sup>(1)</sup>	0.79
	AD	0.85	BZ <sup>(1)</sup>	0.76
	PD	0.85	NK <sup>(1)</sup>	0.81
R TRIM			SV <sup>(1)</sup>	0.81
			AL <sup>(1)</sup>	0.86

## BEAM ANGLE

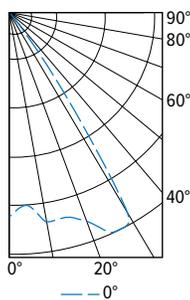
	TRIM TYPE <sup>(2)</sup>			
	O	F	L	R
W	65°	70°	55°	55°
M	35°	35°	35°	35°
N	10°	20°	25°	25°

- 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%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

<sup>1</sup> Distribution will also be affected, consult factory.  
<sup>2</sup> Beam angle based on CS or WH Reflector Finish.

## PHOTOMETRY

8CR-TL-12-L20/835-DIM-UNV-OW-CS Total Luminaire Output: 1988 lumens; 19.0 Watts | Efficacy: 104.6 lm/W | 80 CRI; 3500K CCT



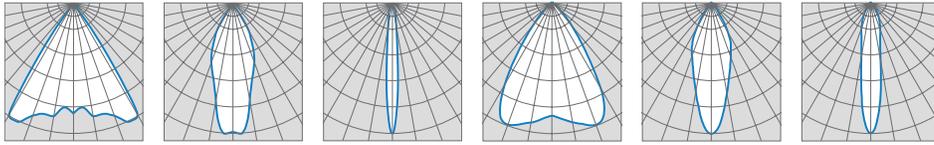
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1672	
	5	1579	151
	15	1735	492
	25	1982	917
	35	604	380
	45	46	36
	55	13	12
	65	2	2
	75	0	0
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1939	98
	0 - 60	1987	100
	0 - 90	1988	100
	0 - 180	1988	100

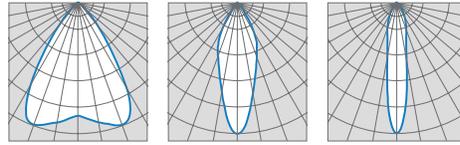


# 8CR LED 8" Compact Cylinder – Round

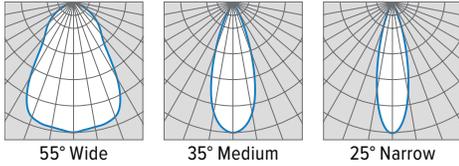
## OPEN (O)



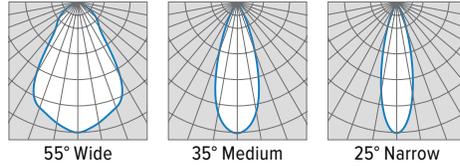
## OPEN TOP DIFFUSER (F)



## FLUSH (L)



## REGRESSED (R)



## ADDITIONAL CONTROL/DRIVER OPTIONS

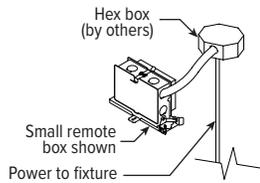
Lumen restrictions apply: L60 max for DALI drivers, L40 max for DMX and LDE1 drivers, L15 min to L60 max for DIM LINE driver.

CONTROL/DRIVER	DESCRIPTION	RDB DETAILS BY LUMEN STOP										
		L10	L20	L30	L40	L50	L60	L70	L80	L90	L100	w/EM
DIM	Dimming driver prewired for 0-10V low voltage applications	OIS	OIS	OIS	OIM	OIM	OIM	RIM	RIM	RIM	RIM	RIL
DIM1	1% dimming driver prewired for 0-10V low voltage applications	OIS	OIS	OIS	OIM	OIM	OIM	RIM	RIM	RIM	RIM	RIL
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)	—	OIS	OIS	OIM	OIM	OIM	—	—	—	—	RIL
DMX	0.1% dimming driver for DMX controls	RIM	RIM	RIM	RIM	—	—	—	—	—	—	RIL
DALI	DALI dimming driver	OIM	OIM	OIM	OIM	RIM	RIM	—	—	—	—	RIL
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver	OIM	OIM	OIM	OIM	—	—	—	—	—	—	RIL
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power	OIS	OIS	OIS	OIM	RIM	RIM	RIM	RIM	RIM	RIM	RIL
AWNDR/DA <sup>(1)</sup>	Lutron Athena wireless node integral fixture control, RF only, for use with driver with 12V auxiliary power	OIS	OIS	OIS	OIM	RIM	RIM	RIM	RIM	RIM	RIM	RIL

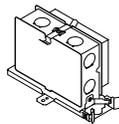
<sup>1</sup> RDB Option required when specified with SM Mounting Type, size follows table above.

## REMOTE MOUNT DETAILS

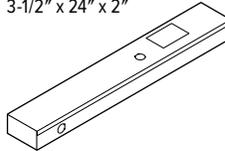
Max remote distance is 50' including suspension length, connection by others. Must be room-side accessible for maintenance.



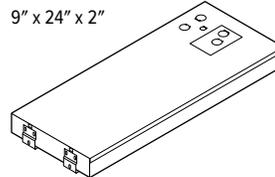
**SMALL**  
Snap-in junction box  
6-1/2" x 3" x 4-1/2"



**MEDIUM**  
3-1/2" x 24" x 2"



**LARGE**  
9" x 24" x 2"



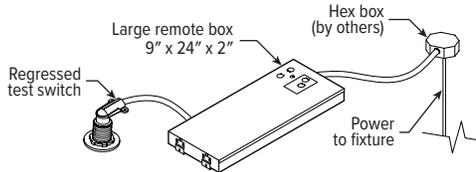
REMOTE MOUNT KEY	
OIS	RDB Optional, Small Box
OIM	RDB Optional, Medium Box
RIM	RDB Required, Medium Box
RIL	RDB Required, Large Box

## EMERGENCY BATTERY DETAILS

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



Regressed test switch  
ø1-3/4"



## TRIMLOCK DETAILS

### TWIST



### PULL

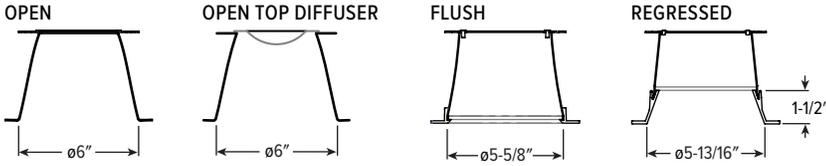


### RELEASE



# 8CR<sup>LED</sup> 8" Compact Cylinder – Round

## TRIM TYPE DETAILS



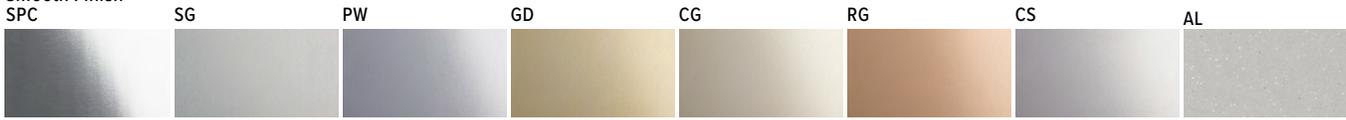
## HOUSING FINISH DETAILS



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



SEE NEXT PAGE FOR MOUNTING DETAILS



# 8CR LED 8" Compact Cylinder – Round

## MOUNTING DETAILS

### PENDANT MOUNT (PM\_\_)



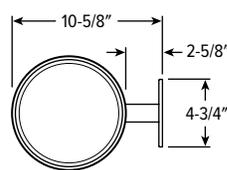
Provided with:

- 38° Swivel canopy
- 3/8" IPS Threaded stem
- Specify length of stem, 6" minimum, 24" default length

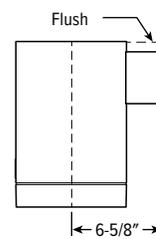
### WALL MOUNT (WM)



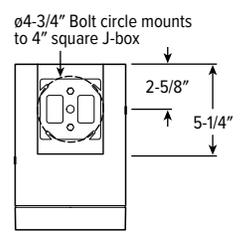
#### TOP VIEW



#### SIDE VIEW



#### BACK VIEW



### SURFACE MOUNT (SM)



#### TwistLock™

Simple lift-and-twist mounting secures fixture to J-box.

### 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

## 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.



SEE NEXT PAGE FOR CONTROL DETAILS.



# 8CR LED 8" Compact 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

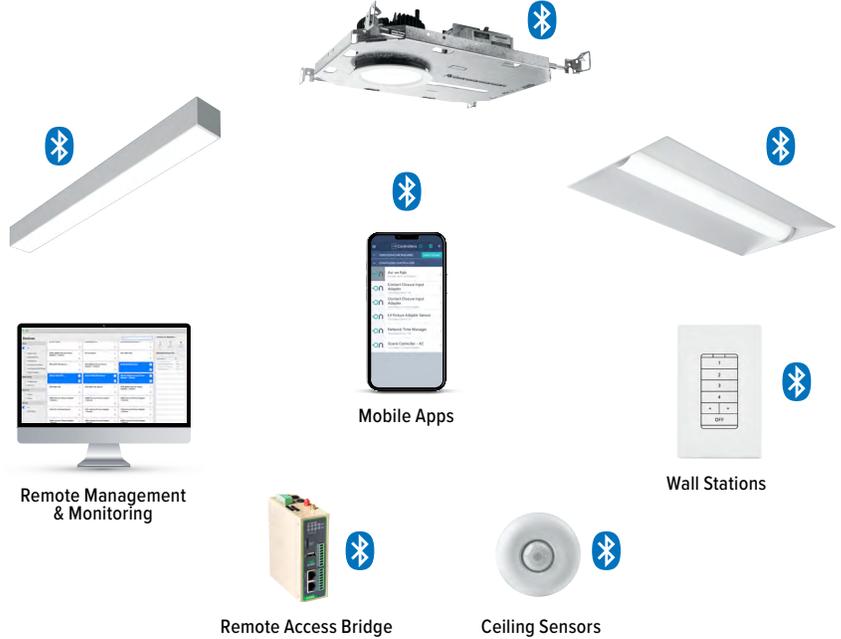


Zone Scanner Web App



Commissioning Pro App

### SYSTEM COMPONENTS



The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Avi-on is under license. Other trademarks and trade names are those of their respective owners.

### 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)

