

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
- WARRANTY – 5-year limited warranty, see 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	–	–	–	–
RDB OPTION REQUIRED								
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 ⁽¹⁾	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 ⁽¹⁾	0.89
	4000K	0.84	BL ⁽¹⁾	0.47
	5000K	0.88		
	TRIM OPTIONS		R TRIM	
	CATALOG NUMBER	CONVERSION FACTOR		
	F	0.75		
	AD	0.85		
	PD	0.85		
			WH	1.00
			CS ⁽¹⁾	0.98
			BL ⁽¹⁾	0.79
			BZ ⁽¹⁾	0.76
			NK ⁽¹⁾	0.81
			SV ⁽¹⁾	0.81
			AL ⁽¹⁾	0.86

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

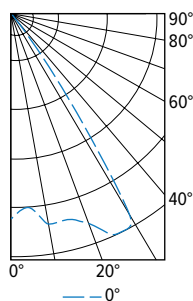
BEAM ANGLE

	TRIM TYPE ⁽²⁾			
	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.

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



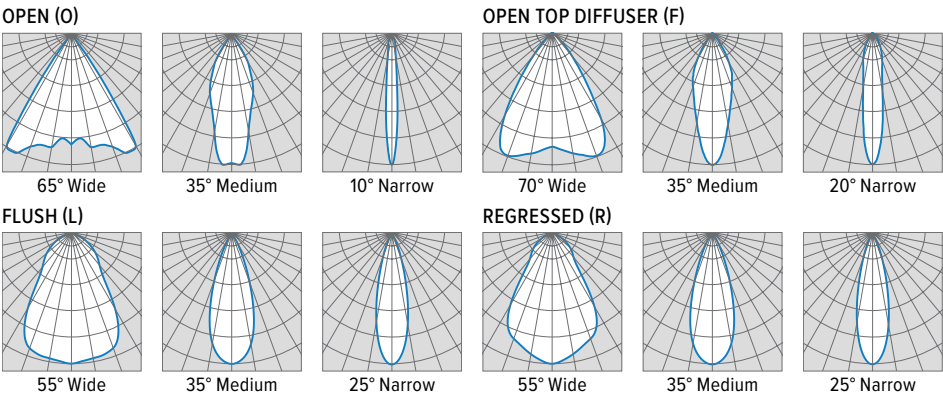
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1672	
	5	1579	151
	15	1735	492
	25	1982	917
	35	604	380
	45	46	36
	55	13	12
	65	2	2
75	0	0	
85	0	0	
90	0		

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



8CR LED

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ADDITIONAL CONTROL/DRIVER OPTIONS

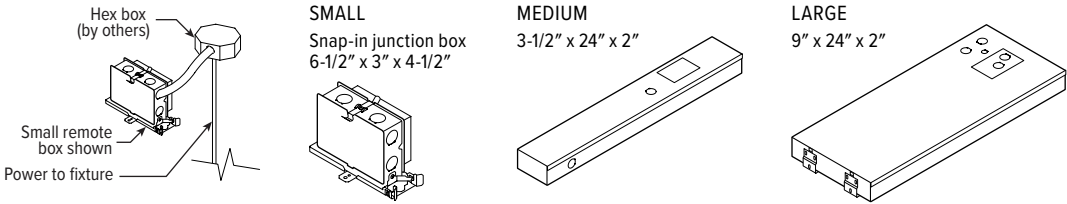
Lumen restrictions apply: L60 max for DALI drivers, L40 max for DMX and LDE1 drivers, L15 min to L60 max for DIM LINE driver.

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
AWN/DA ⁽¹⁾	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

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

REMOTE MOUNT DETAILS

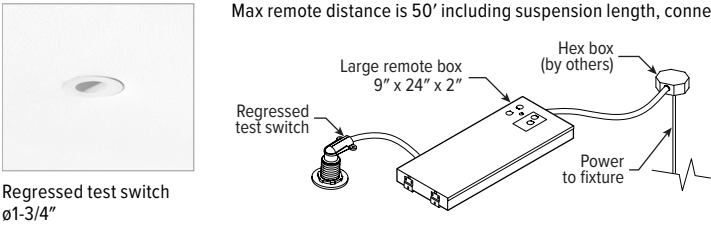
Max remote distance is 50' including suspension length, connection by others. Must be room-side accessible for maintenance.



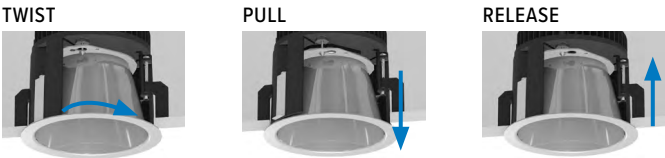
REMOTE MOUNT KEY	
OIS	RDB Optional, Small Box
OIM	RDB Optional, Medium Box
RIM	RDB Required, Medium Box
RIL	RDB Required, Large Box

EMERGENCY BATTERY DETAILS

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

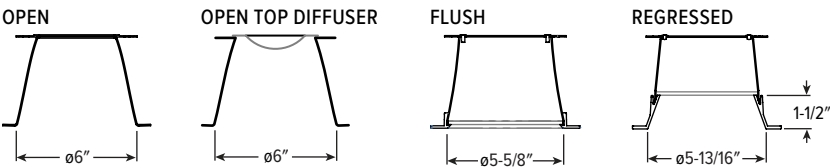


TRIMLOCK DETAILS

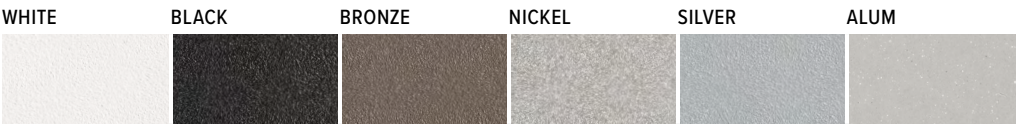


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TRIM TYPE DETAILS



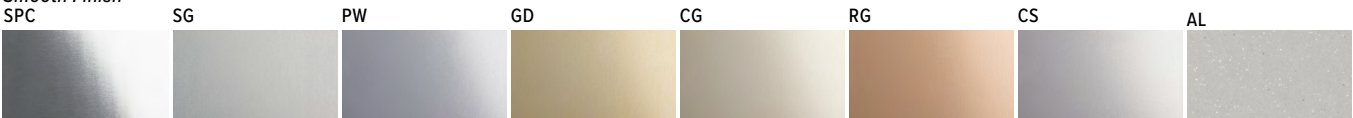
HOUSING FINISH DETAILS



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



Textured Finish



SEE NEXT PAGE FOR MOUNTING DETAILS



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MOUNTING DETAILS

PENDANT MOUNT (PM__)

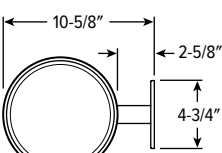


- Provided with:
- 38° Swivel canopy
 - 3/8" IPS Threaded stem
 - Specify length of stem, 6" minimum, 24" default length

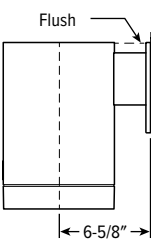
WALL MOUNT (WM)



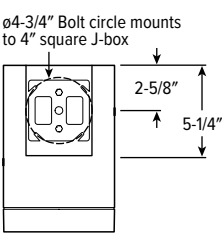
TOP VIEW



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	Standard
	48 48"	4 4		/W White
	96 96"	5 5		/B Black
		6 6		Braided ⁽¹⁾
				/WH White
				/BL Black
				/BR Brass
				/AE Aegean Blue
				/RE Red
				/SV Silver
				/GU Gunmetal
				/NK Nickel
				/GR Gray

¹ (5) conductors cord only.

COLOR DETAILS

Additional colors may be available, consult factory.



SEE NEXT PAGE FOR CONTROL DETAILS.



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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

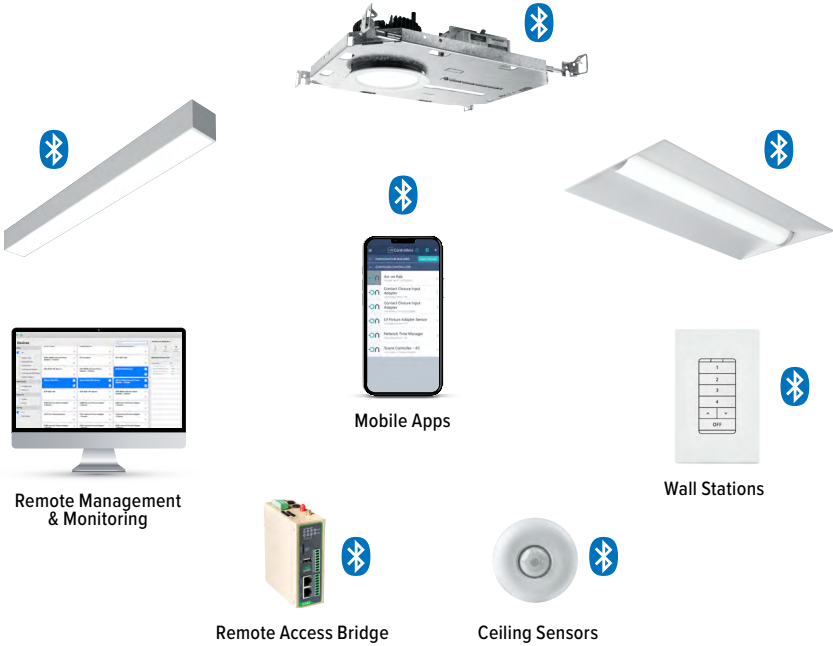


Zone Scanner
Web App



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

