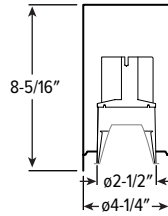


4CR LED

4" Compact Cylinder – Round



CATALOG #: _____

TYPE: _____

PROJECT: _____



TwistLock™

ORDERING EXAMPLE: 4CR - 08 - L20/835 - RDB - OPTIONS - WHT - CONTROL/DIM - UNV - OW - CS - TRIM OPTIONS - CM
HOUSING TRIM MOUNT

HOUSING

SERIES	HEIGHT	LUMENS ^[1]	CRI	CCT	REMOTE	OPTIONS	HOUSING FINISH ^[2]
4CR	08 8"	L5 500lm	8 80	27 2700K	RDB Remote mount control/driver box, galvanized steel ^[3]	See page 3 for EMERGENCY BATTERY OPTIONS.	ALUM Silver sparkle aluminum
		L7 700lm	9 90	30 3000K			BLK Textured black
		L9 900lm		35 3500K			BRZ Textured bronze
		L12 1,200lm		40 4000K			NKL Textured nickel
		L15 1,500lm		50 5000K			SLV Textured silver
		L20 2,000lm					WHT Textured white
		L25 2,500lm					

CONTROL

See page 3 for ADDITIONAL CONTROL/DRIVER OPTIONS.

- None
- AVI-LVFA Avi-on wireless fixture control ^[4]
- AWNR Lutron Athena wireless node integral fixture control, RF only ^[5]

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 ^[6]

VOLTAGE

- UNV 120-277V
- 347 347V ^[7]

TRIM

TRIM TYPE	DISTRIBUTION ^[8]	REFLECTOR FINISH ^[9]	TRIM OPTIONS
O Open reflector	W 70° Wide	Open Trim Types	AD Diffuse acrylic lens ^[12]
L Flush lens	M 40° Medium	CS Clear semi-specular anodize	PD Diffuse 1/8" polycarbonate lens ^[13]
R Regressed lens	N 15° Narrow ^[10]	SG Satin-glow anodize	TD Diffuse polycarbonate lens media at top of open reflector ^[14]
	S 8° Narrow spot ^[11]	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	
		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	

MOUNTING

MOUNTING TYPE ^[15]

- CM__ Adjustable aircraft cable mount, 24", 48", 96", or 144" only, must specify. Example: 24" cable = CM24 ^[16]
- PM__ Pendant mount. Example: 24" pendant = PM24 ^[17]
- PC__ Power cord mount. Example: 24" cord = PC24 ^[18]
- SM TwistLock surface mount to octagonal J-box
- WM Wall mount

NOTES

- ¹ 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.
- ² See page 4 for HOUSING FINISH DETAILS.
- ³ Painted driver box available, specify RDB/BLK or RDB/WHT.
- ⁴ DA Driver only. See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- ⁵ DA Driver only.
- ⁶ Avi-on and Lutron Athena Controls only.
- ⁷ Not available with EM batteries, DA, or DMX drivers.
- ⁸ Beam angle based on O Trim Type and CS Reflector Finish. Trim Type affects beam angle. See page 2 for FIXTURE PERFORMANCE DATA.
- ⁹ See page 4 for REFLECTOR FINISH DETAILS.
- ¹⁰ Not available with L25 lumen package when specified with L or R Trim Types.
- ¹¹ Not available with L20 or L25 lumen packages or 950 CRI/CCT.
- ¹² Not available with O Trim Type, W Distribution only.
- ¹³ Not available with O Trim Type, W Distribution only.
- ¹⁴ O Trim Type only.
- ¹⁵ See page 4 for MOUNTING DETAILS.
- ¹⁶ Canopy painted white unless specified otherwise. Must specify cord. See page 4 for CORD OPTIONS.
- ¹⁷ Specify length in 1" increments, minimum 6". Canopy and pendant match fixture housing color unless specified otherwise.
- ¹⁸ 48" and 96" lengths available. Canopy painted white unless specified otherwise. Must specify cord. See page 4 for CORD OPTIONS.



4CR^{LED} 4" 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 8° narrow spot to 70° wide optics
- Complement the architectural elements of any space with a multitude of housing, trim and cord finishes
- Limitless application opportunities via pendant, cable, power cord, wall and ceiling mounts
- Ensure a simple and secure installation with TwistLock™ surface mount technology
- Low UGR meets LEED and WELL requirements
- Wireless in-fixture control solutions available

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.
- 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 = 49,000 hours. Estimated L70 = 179,000 hours.
- MOUNTING** – Surface, cable, pendant, power cord 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.
 - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- 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)
L5	W	6.7	516	77	540	81	535	80
	M	6.7	499	74	532	79	509	76
	N	6.7	407	61	528	79	515	77
	S	7.8	451	58	624	80	602	77
L7	W	8.7	725	83	759	87	751	86
	M	8.7	700	80	748	86	715	82
	N	8.7	572	66	742	85	723	83
	S	11.2	630	56	871	78	840	75
L9	W	10.7	929	87	973	91	963	90
	M	10.7	898	84	958	90	917	86
	N	10.7	799	75	950	89	927	87
	S	14.1	807	57	1115	79	1075	76
L12	W	14.3	1267	89	1327	93	1313	92
	M	14.3	1224	86	1307	91	1250	87
	N	14.3	1000	70	1296	91	1264	88
	S	20.4	1071	53	1480	73	1427	70
L15	W	17.7	1571	89	1645	93	1628	92
	M	17.7	1518	86	1620	92	1550	88
	N	17.7	1240	70	1607	91	1567	89
	S	26.7	1326	50	1832	69	1767	66
L20	W	23.9	2063	86	2160	90	2138	89
	M	23.9	1993	83	2127	89	2035	85
	N	23.9	1629	68	2110	88	2058	86
	S	–	–	–	–	–	–	–
L25	W	30.1	2479	82	2596	86	2569	85
	M	30.1	2395	80	2556	85	2446	81
	N	30.1	1957	65	–	–	–	–
	S	–	–	–	–	–	–	–

MULTIPLIER TABLES

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.92
	3000K	0.98
	3500K	1.00
	4000K	1.01
	5000K	1.02

	CONVERSION FACTOR	
	2700K	0.76
3000K	0.79	
3500K	0.82	
4000K	0.84	
5000K	0.88	

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

	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
O TRIM	CS	1.00
	SG ⁽¹⁾	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
R TRIM	RG	0.88
	WH ⁽¹⁾	0.89
	BL ⁽¹⁾	0.47
	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.

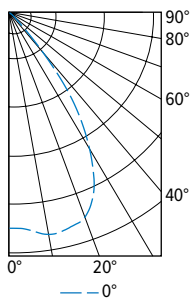
BEAM ANGLE

	TRIM TYPE		
	OPEN	FLUSH	REGRESSED
W	70°	50°	55°
M	40°	30°	30°
N	15°	20°	20°
S	8°	14°	14°

- 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

4CR-08-L25/835-DIM-UNV-OW-CS Total Luminaire Output: 2479 lumens; 30.1 Watts | Efficacy: 82.3 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	2011	
	5	2033	148
	15	2087	341
	25	1859	429
	35	1089	271
	45	150	39
	55	35	12
	65	12	4
	75	2	1
	85	0	0
	90	0	

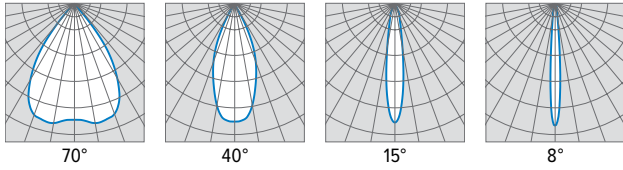
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2281	92
0 - 60	2464	99	
0 - 90	2479	100	
0-180	2479	100	



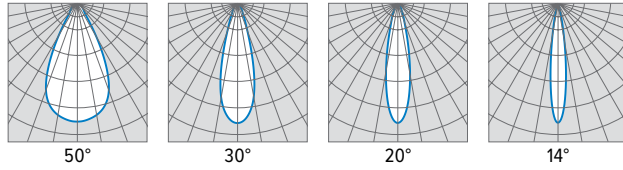
4CR LED

4" Compact Cylinder – Round

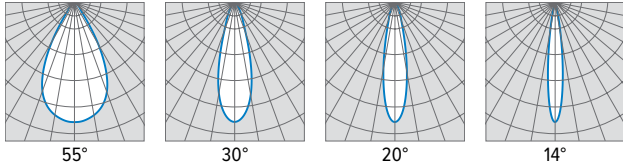
OPEN



FLUSH



REGRESSED



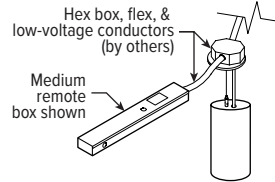
ADDITIONAL CONTROL/DRIVER OPTIONS

Lumen restrictions apply: L9 min for DIM LINE driver.

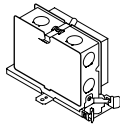
DRIVER/CONTROL	DESCRIPTION	RDB DETAILS BY LUMEN STOP							
		L5	L7	L9	L12	L15	L20	L25	w/EM
DIM	Dimming driver prewired for 0-10V low voltage applications	RIS	RIS	RIS	RIS	RIS	RIS	RIS	RIL
DIM1	1% dimming driver prewired for 0-10V low voltage applications	RIS	RIS	RIS	RIS	RIS	RIS	RIS	RIL
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)	—	—	RIS	RIS	RIS	RIS	RIS	RIL
DMX	0.1% dimming driver for DMX controls	RIM	RIM	RIM	RIM	RIM	RIM	RIM	RIL
DALI	DALI dimming driver	RIM	RIM	RIM	RIM	RIM	RIM	RIM	RIL
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver	RIM	RIM	RIM	RIM	RIM	RIM	RIM	RIL
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power	RIS	RIS	RIS	RIS	RIS	RIS	RIS	RIL
AWNDR/DA	Lutron Athena wireless node integral fixture control, RF only, for use with driver with 12V auxiliary power	RIS	RIS	RIS	RIS	RIS	RIS	RIS	RIL

REMOTE MOUNT DETAILS

Max remote distance is 50' including suspension. Must be room-side accessible for maintenance.



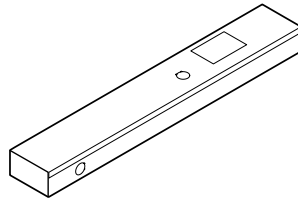
SMALL



Snap-in Junction Box

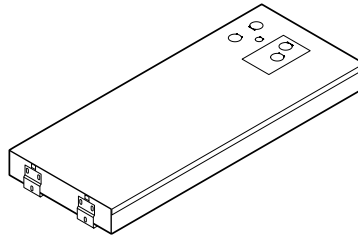
6-1/2" x 3" x 4-1/2"

MEDIUM



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

LARGE



9" x 24" x 2"

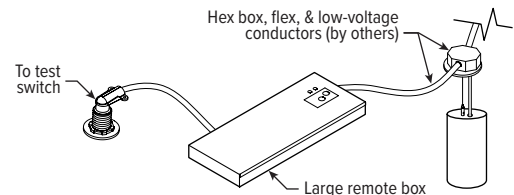
REMOTE MOUNT KEY	
RIS	RDB Required, Small Box
RIM	RDB Required, Medium Box
RIL	RDB Required, Large Box

EMERGENCY BATTERY 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.

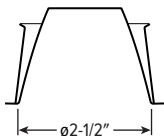
CATALOG NUMBER	DESCRIPTION
EM/7WRM/RTS	Remote mount 7-watt emergency battery with regressed test switch
EM/10WRM/RTS	Remote mount 10-watt emergency battery with regressed test switch
EM/12WRM/RTS	Remote mount 12-watt emergency battery with regressed test switch ¹⁾

¹⁾ Not available when CEC regulations are required.

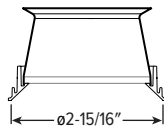


TRIM TYPE DETAILS

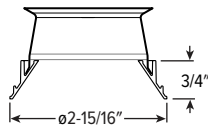
OPEN



FLUSH

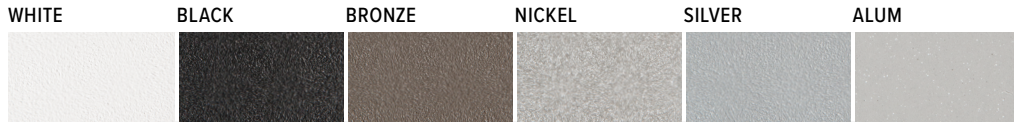


REGRESSED



4CR^{LED} 4" Compact Cylinder – Round

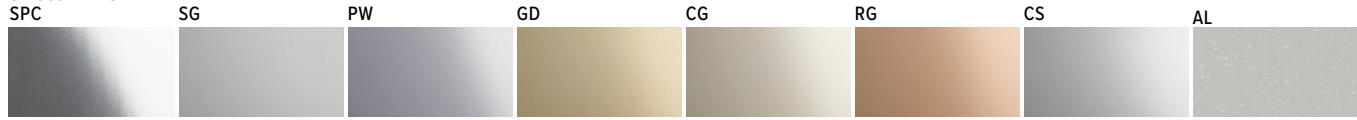
HOUSING FINISH DETAILS



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

PENDANT MOUNT (PM__)

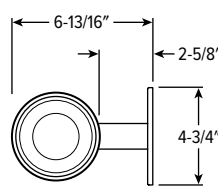


- Provided with:
- 45° Swivel canopy
 - 3/8" IPS Threaded stem
 - Specify length of stem, 6" minimum, 24" default length

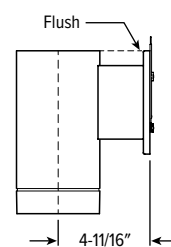
WALL MOUNT (WM)



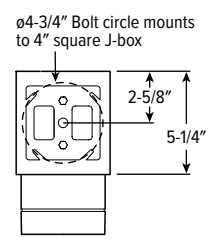
TOP VIEW



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

POWER CORD MOUNT (PC)



- Provided with:
- 18-gauge cord, see Cord Options for ordering info.
 - One 5" canopy
 - Power cord mounting adaptor

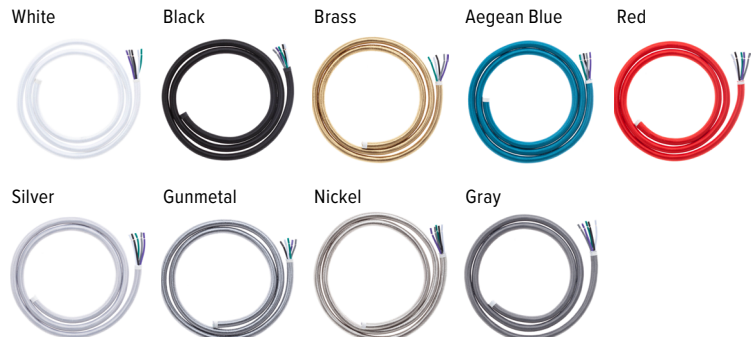
CORD OPTIONS

Must specify cord when cable and power cord mounting.

ORDERING EXAMPLE: S2438/W				
CORD TYPE	LENGTH	# CONDUCTORS	WIRE SIZE	COLOR
S Straight	24	3	8 18-gauge	Standard
	24"	3		/W White
	48	4		/B Black
	48"	4		Braided ⁽¹⁾
	96	5		/WH White
	96"	6		/BL Black
				/BR Brass
				/AE Aegean Blue
				/RE Red
				/SV Silver
				/GU Gunmetal
				/NK Nickel
				/GR Gray

COLOR DETAILS

Additional colors may be available, consult factory.



¹ (5) conductors cord only.

4CR^{LED} 4" Compact Cylinder – Round

AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

FEATURES

Simple

- Gateway-free distributed control
- Factory pre-commissioning
- 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

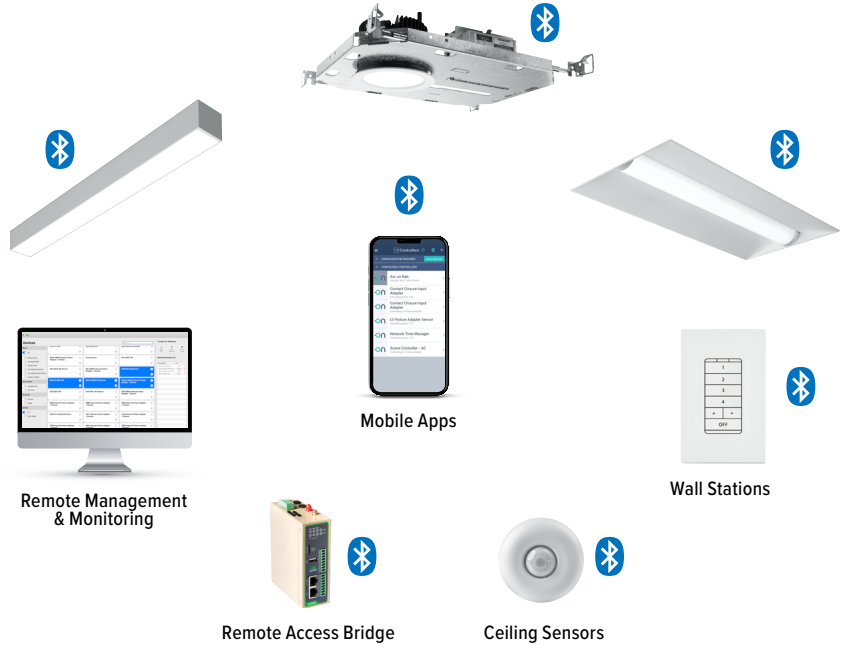


Zone Scanner Web App



Commissioning Pro App

SYSTEM COMPONENTS



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ACCESSORIES

WALL STATIONS	
AVI-2401AC	Scene controller - numbered 1-4, 120-277VAC
AVI-2402BAT	Scene controller - numbered 1-4, battery powered
AVI-2401AC-2	Dimmer with presets - percentages, 120-277VAC
AVI-2402BAT-2	Dimmer with presets - percentages, battery powered
AVI-2401AC-3	On/off/dimming, 120-277VAC
AVI-2402BAT-3	On/off/dimming, battery powered

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

