

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

TYPE:

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



TwistLock™

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

SERIES	HEIGHT	LUMENS <sup>[1]</sup>	CRI	CCT	REMOTE	OPTIONS	HOUSING FINISH <sup>[2]</sup>
4CR	08 8"	L5 500lm	8 80	27 2700K	RDB Remote mount control/driver box, galvanized steel <sup>[3]</sup>	EM/10WRM/RTS Remote mount 10-watt emergency battery with regressed test switch <sup>[4]</sup>	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					

See page 3 for **ADDITIONAL CONTROL/DRIVER OPTIONS**.

—	None
<b>AVI-LVFA</b>	Avi-on wireless fixture control <sup>[5]</sup>
<b>AWNRR</b>	Lutron Athena wireless node integral fixture control. RF only <sup>[6]</sup>

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 [7]

UNV 120-277V  
347 347V<sup>[8]</sup>

TRIM TYPE	DISTRIBUTION	REFLECTOR FINISH <sup>[9]</sup>	TRIM OPTIONS
O Open reflector	See page 2 for	Open Trim Types	AD Diffuse acrylic lens <sup>[12]</sup>
F Open reflector with	BEAM ANGLE.	CS Clear semi-specular anodize	PD Diffuse 1/8" polycarbonate lens <sup>[13]</sup>
frosted top diffuser	W Wide	SG Satin-glow anodize	
L Flush lens	M Medium	GD Gold anodize	WH White texture powder coat
R Regressed lens	N Narrow <sup>[10]</sup>	CG Champagne gold anodize	BL Black texture powder coat
	S Narrow spot <sup>[11]</sup>	PW Pewter anodize	BZ Bronze texture powder coat
		SPC Clear specular anodize	NK Nickel texture powder coat
		RG Rose gold anodize	SV Silver texture powder coat
		WH White texture powder coat	AL Silver sparkle aluminum
		BL Black texture powder coat	

MOUNTING TYPE <sup>[14]</sup>	
<b>CM</b> __	Adjustable aircraft cable mount, 24", 48", 96", or 144" only, must specify. Example: 24" cable = <b>CM24</b> <sup>[15]</sup>
<b>PM</b> __	Pendant mount. Example: 24" pendant = <b>PM24</b> <sup>[16]</sup>
<b>PC</b> __	Power cord mount. Example: 24" cord = <b>PC24</b> <sup>[17]</sup>
<b>SM</b>	TwistLock surface mount to octagonal J-box
<b>WM</b>	Wall mount

<p><sup>1</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.</p> <p><sup>2</sup> See page 4 for HOUSING FINISH DETAILS.</p> <p><sup>3</sup> Painted driver box available, specify RDB/BLK or RDB/WHT.</p> <p><sup>4</sup> 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.</p> <p><sup>5</sup> DA Driver only. See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.</p> <p><sup>6</sup> DA Driver only.</p> <p><sup>7</sup> Avi-on and Lutron Athena Controls only.</p> <p><sup>8</sup> Not available with EM batteries, DA, or DMX drivers.</p>	<p><sup>9</sup> See page 4 for REFLECTOR FINISH DETAILS.</p> <p><sup>10</sup> Not available with L25 lumen package when specified with L or R Trim Types.</p> <p><sup>11</sup> Not available with L20 or L25 lumen packages or 950 CRI/CCT.</p> <p><sup>12</sup> Not available with O or F Trim Types. W Distribution only.</p> <p><sup>13</sup> Not available with O or F Trim Types. W Distribution only.</p> <p><sup>14</sup> See page 4 for MOUNTING DETAILS.</p> <p><sup>15</sup> Canopy painted white unless specified otherwise. Must specify cord. See page 4 for CORD OPTIONS.</p> <p><sup>16</sup> Specify length in 1" increments, minimum 6". Canopy and pendant match fixture housing color unless specified otherwise.</p> <p><sup>17</sup> 48" and 96" lengths available. Canopy painted white unless specified otherwise. Must specify cord. See page 4 for CORD OPTIONS.</p>
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# 4CR<sup>LED</sup> 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
- 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.
- 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.
  - 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		FLUSH LENS		REGRESSED LENS	
			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
90 CRI	2700K	0.76
	3000K	0.79
	3500K	0.82
	4000K	0.84
	5000K	0.88

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

## BEAM ANGLE

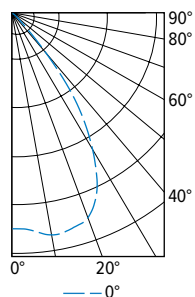
	TRIM TYPE [2]			
	O	F	L	R
W 70°	Consult Factory		50°	55°
M 40°			30°	30°
N 15°			20°	20°
S 8°			14°	14°

	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
	RG	0.88
	WH [1]	0.89
R TRIM	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

- Distribution will also be affected, consult factory.
  - Beam angle based on CS 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%.
  - 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

PHOTOMETRY CONTINUED ON NEXT PAGE.

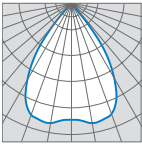




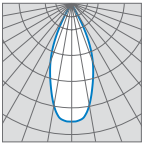
# 4CR<sup>LED</sup>

## 4" Compact Cylinder – Round

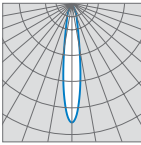
### OPEN (O)



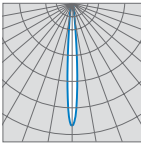
70° Wide



40° Medium

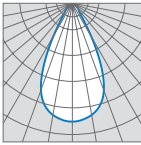


15° Narrow

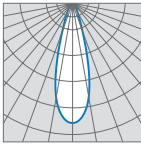


8° Spot

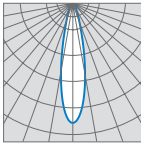
### FLUSH (L)



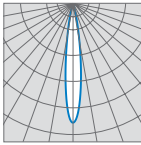
50° Wide



30° Medium

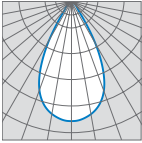


20° Narrow

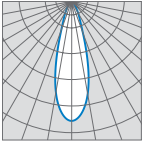


14° Spot

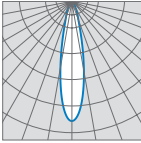
### REGRESSED (R)



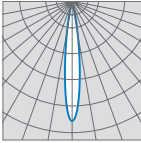
55° Wide



30° Medium



20° Narrow



14° Spot

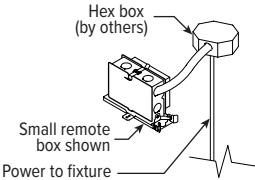
### ADDITIONAL CONTROL/DRIVER OPTIONS

Lumen restrictions apply: L9 min for DIM LINE driver.

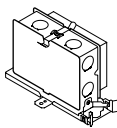
CONTROL/ DRIVER	DESCRIPTION	RDB DETAILS BY LUMEN STOP							
		L5	L7	L9	L12	L15	L20	L25	w/EM
DIM	Dimming driver prewired for 0-10V low voltage applications	RIS	RIS	RIS	RIS	RIS	RIS	RIS	RIL
DIM1	1% dimming driver prewired for 0-10V low voltage applications	RIS	RIS	RIS	RIS	RIS	RIS	RIS	RIL
DIM LINE	Line 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

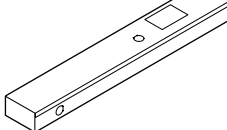
Max remote distance is 50' including suspension length, connection by others. Must be room-side accessible for maintenance.



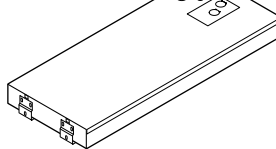
**SMALL**  
Snap-in junction box  
6-1/2" x 3" x 4-1/2"



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



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

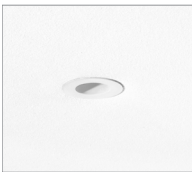


### REMOTE MOUNT KEY

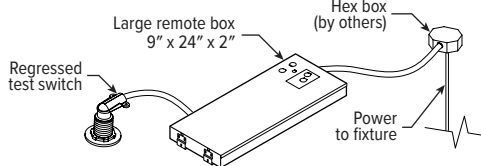
RIS	RDB Required, Small Box
RIM	RDB Required, Medium Box
RIL	RDB Required, Large Box

### EMERGENCY BATTERY DETAILS

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

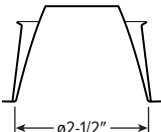


Regressed test switch  
ø1-3/4"



### TRIM TYPE DETAILS

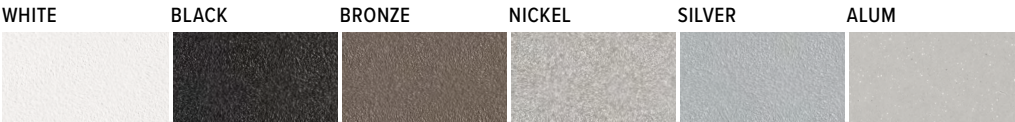
#### OPEN





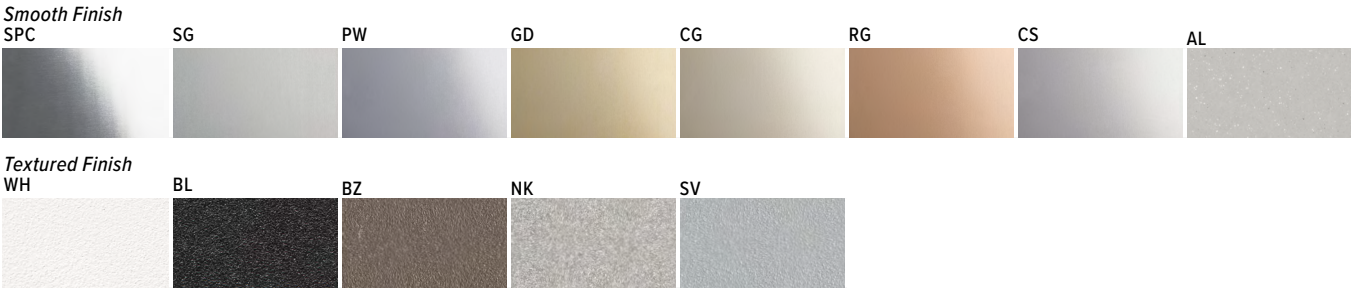
# 4CR<sup>LED</sup> 4" Compact Cylinder – Round

## 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



## MOUNTING DETAILS

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

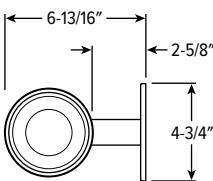


- Provided with:
- 38° Swivel canopy
  - 3/8" IPS Threaded stem
  - Specify length of stem, 6" minimum, 24" default length

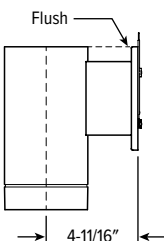
### WALL MOUNT (WM)



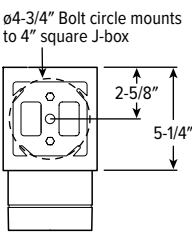
#### TOP VIEW



#### 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

### 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 24"	3 3	8 18-gauge	Standard
	48 48"	4 4		/W White
	96 96"	5 5		/B Black
		6 6		Braided <sup>(1)</sup>
				/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.





# 4CR<sup>LED</sup>

## 4" 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

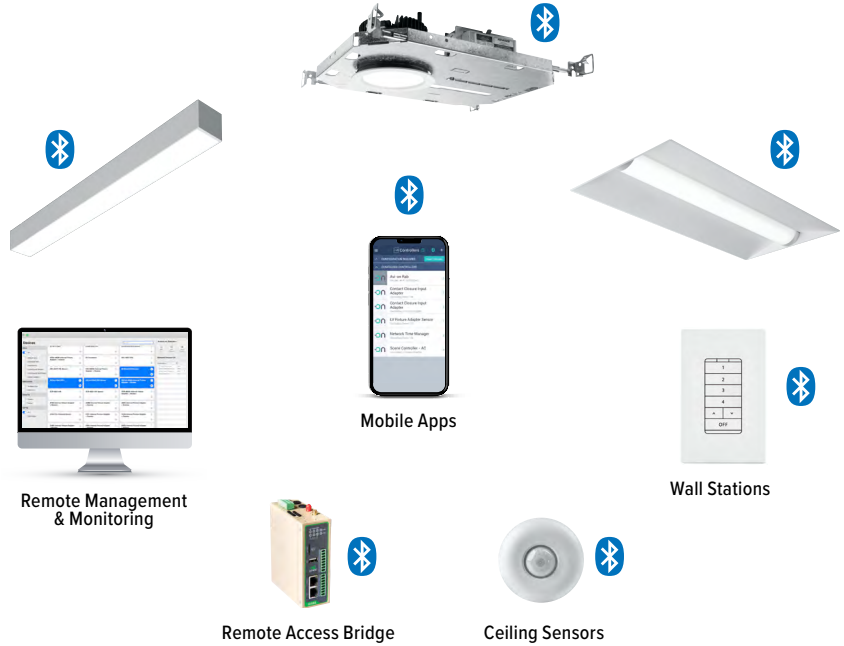


Zone Scanner  
Web App



Commissioning  
Pro App

#### SYSTEM COMPONENTS



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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)

