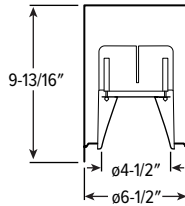


6CR LED 6.5" Compact Cylinder – Round



CATALOG #: _____

TYPE: _____

PROJECT: _____



TrimLock® TwistLock™

ORDERING EXAMPLE: **6CR - TL - 10 - L20/835 - OPTIONS - WHT - CONTROL/DIM - UNV** | **OW - CS - TRIM OPTIONS** | **CM**
 HOUSING TRIM MOUNT.

HOUSING

SERIES	HEIGHT	LUMENS ^[1]	CRI	CCT	OPTIONS	HOUSING FINISH ^[2]	CONTROL	DRIVER	VOLTAGE
6CR - TL TrimLock	10 10" ^[3]	L10 1,000lm	8	80	27 2700K	ALUM Silver sparkle aluminum BLK Textured black BRZ Textured bronze NKL Textured nickel SLV Textured silver WHT Textured white	See page 3 for ADDITIONAL CONTROL/ DRIVER OPTIONS. - None AVI-LVFA Avi-on wireless fixture control ^[6] AWN R Lutron Athena wireless node integral fixture control, RF only ^[7]	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 ^[8]	UNV 120- 277V 347 347V ^[9]
		L15 1,500lm	9	90	30 3000K				
		L20 2,000lm			35 3500K				
		L30 3,000lm			40 4000K				
		L40 4,000lm			50 5000K				
		L50 5,000lm							
		L60 6,000lm							
L70 7,000lm ^[4]									
					F Fuse RDB Remote mount control/ driver box, galvanized steel ^[5]				

TRIM

TRIM TYPE	DISTRIBUTION ^[10]	REFLECTOR FINISH ^[11]	TRIM OPTIONS
O Open reflector	W 65° Wide	Open Trim Types	AD Diffuse acrylic lens ^[14]
L Flush lens	M 45° Medium ^[12]	CS Clear semi-specular anodize	PD Diffuse 1/8" polycarbonate lens ^[15]
R Regressed lens	N 10° Narrow ^[13]	SG Satin-glow anodize	TD Diffuse polycarbonate lens media at top of open reflector ^[16]
		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 ^[17]

- CM__ Adjustable aircraft cable mount, 24", 48", 96", or 144" only, must specify. Example: 24" cable = **CM24** ^[18]
- PM__ Pendant mount. Example: 24" pendant = **PM24** ^[19]
- PC__ Power cord mount. Example: 24" cord = **PC24** ^[20]
- 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 Must specify RDB Option with L50 lumen package and higher.
- ⁴ O Trim Type only.
- ⁵ Painted driver box available, specify RDB/BLK or RDB/WHT.
- ⁶ DA Driver only. Installed in remote box, must specify RDB Option. See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- ⁷ DA Driver only. Installed in remote box, must specify RDB Option.
- ⁸ Avi-on and Lutron Athena Controls only.
- ⁹ Not available with EM batteries, DA, or DMX drivers.
- ¹⁰ Beam angle based on O Trim Type and CS Reflector Finish. Trim Type affects beam angle. See page 2 for FIXTURE PERFORMANCE DATA.
- ¹¹ See page 4 for REFLECTOR FINISH DETAILS.
- ¹² Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
- ¹³ Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
- ¹⁴ Not available with O Trim Type, W Distribution only.
- ¹⁵ Not available with O Trim Type, W Distribution only.
- ¹⁶ O Trim Type only, L50 lumen package max.
- ¹⁷ See page 4 for MOUNTING DETAILS.
- ¹⁸ Canopy painted white unless specified otherwise. Must specify cord. See page 4 for CORD OPTIONS.
- ¹⁹ Specify length in 1" increments, minimum 6". Canopy and pendant match fixture housing color unless specified otherwise.
- ²⁰ 48" and 96" lengths available. Canopy painted white unless specified otherwise. Must specify cord. See page 4 for CORD OPTIONS.



6CR LED 6.5" 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
- 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
- Limitless application opportunities via pendant, cable, power cord, wall and ceiling mounts
- Ensure a simple and secure installation with TwistLock™ surface mount technology
- Precision-engineered extruded aluminum housing and die-cast aluminum trim face for clean aesthetic
- 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.
- 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, power cord, 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.
 - 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)
L10	W	9.0	1027	114	674	75	660	73
	M	9.0	999	111	895	99	895	99
	N	9.0	1000	111	914	102	882	98
L15	W	13.9	1466	105	994	72	972	70
	M	13.9	1471	106	1319	95	1319	95
	N	13.9	1473	106	1347	97	1300	94
L20	W	19.8	2005	101	1352	68	1323	67
	M	19.8	2002	101	1794	91	1795	91
	N	19.8	2004	101	1833	93	1769	89
L30	W	27.8	2985	107	2022	73	1979	71
	M	27.8	2900	104	2683	97	2685	97
	N	27.8	2734	98	2741	99	2646	95
L40	W	38.0	3979	105	2695	71	2638	69
	M	38.0	3865	102	3577	94	3579	94
	N	38.0	3644	96	3654	96	3527	93
L50	W	45.2	5124	113	3364	74	3292	73
	M	45.2	4956	110	–	–	–	–
	N	45.1	4818	107	–	–	–	–
L60	W	50.4	6041	120	4074	81	3986	79
	M	50.4	5842	116	–	–	–	–
	N	50.4	5679	113	–	–	–	–
L70	W	61.7	7044	114	–	–	–	–
	M	61.7	6812	110	–	–	–	–
	N	61.7	6623	107	–	–	–	–

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	WH	1.00
TRIM OPTIONS	CATALOG NUMBER	CONVERSION FACTOR	CS ⁽¹⁾	0.98
	AD	0.85	BL ⁽¹⁾	0.79
	PD	0.85	BZ ⁽¹⁾	0.76
	TD	0.75	NK ⁽¹⁾	0.81
			SV ⁽¹⁾	0.81
		AL ⁽¹⁾	0.86	

BEAM ANGLE

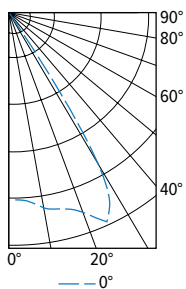
	TRIM TYPE		
	OPEN	FLUSH	REGRESSED
W	65°	50°	50°
M	45°	35°	30°
N	10°	25°	25°

¹ Distribution will also be affected, consult factory.

- 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

6CR-TL-10-L20/835-DIM-UNV-OW-CS Total Luminaire Output: 2005 lumens; 19.8 Watts | Efficacy: 101.0 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1810	
	5	1864	178
	15	1960	556
	25	2231	1033
	35	307	193
	45	44	35
	55	11	10
	65	1	1
	75	0	0
	85	0	0
	90	0	0

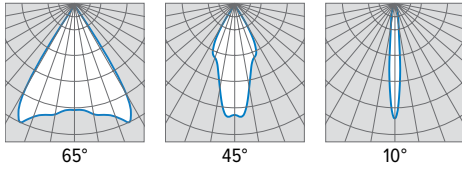
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1959	98
	0 - 60	2004	100
	0 - 90	2005	100
	0-180	2005	100

PHOTOMETRY CONTINUED ON NEXT PAGE.

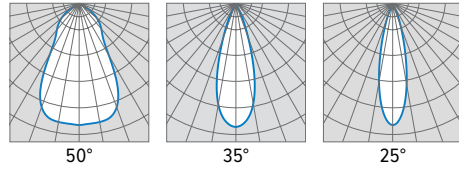


6CR LED 6.5" Compact Cylinder – Round

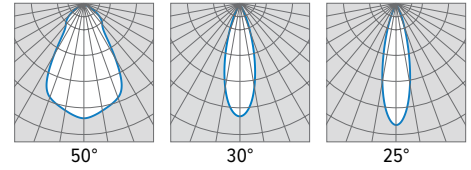
OPEN



FLUSH



REGRESSED



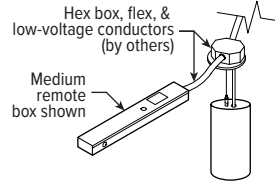
ADDITIONAL CONTROL/DRIVER OPTIONS

Lumen restrictions apply: L50 max DALI driver, L40 max for DMX and LDE1 drivers, L15 min to L60 max for DIM LINE driver.

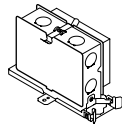
DRIVER/CONTROL	DESCRIPTION	RDB DETAILS BY LUMEN STOP								
		L10	L15	L20	L30	L40	L50	L60	L70	w/EM
DIM	Dimming driver prewired for 0-10V low voltage applications	OIS	OIS	OIS	OIS	OIM	RIM	RIM	RIM	RIL
DIM1	1% dimming driver prewired for 0-10V low voltage applications	OIS	OIS	OIS	OIS	OIM	RIM	RIM	RIM	RIL
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)	—	OIS	OIS	OIS	OIM	RIM	RIM	—	RIL
DMX	0.1% dimming driver for DMX controls	RIM	RIM	RIM	RIM	RIM	—	—	—	RIL
DALI	DALI dimming driver	RIM	RIM	RIM	RIM	RIM	RIM	—	—	RIL
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver	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	RIM	RIM	RIM	RIM	RIL
AWNDR/DA	Lutron Athena wireless node integral fixture control, RF only, for use with driver with 12V auxiliary power	RIS	RIS	RIS	RIS	RIM	RIM	RIM	RIM	RIL

REMOTE MOUNT DETAILS

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



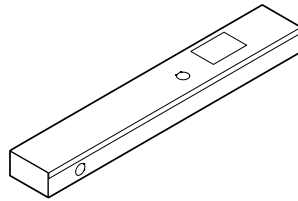
SMALL



Snap-in Junction Box

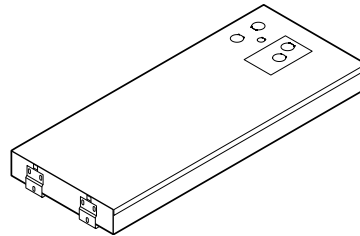
6-1/2" x 3" x 4-1/2"

MEDIUM



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

LARGE



9" x 24" x 2"

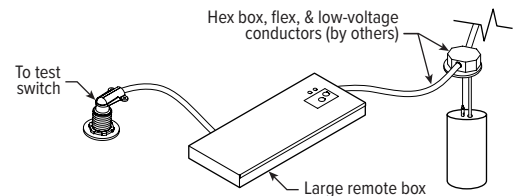
REMOTE MOUNT KEY	
RIS	RDB Required, Small Box
OIS	RDB Optional, Small Box
OIM	RDB Optional, Medium Box
RIM	RDB Required, Medium Box
RIL	RDB Required, Large Box

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.

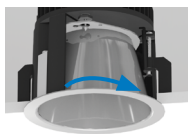
CATALOG NUMBER	DESCRIPTION
EM/7WRM/RTS	Remote mount 7-watt emergency battery with regressed test switch
EM/10WRM/RTS	Remote mount 10-watt emergency battery with regressed test switch
EM/12WRM/RTS	Remote mount 12-watt emergency battery with regressed test switch ¹⁾

¹⁾ Not available when CEC regulations are required.



TRIMLOCK DETAILS

TWIST



PULL

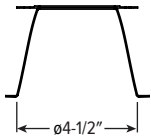


RELEASE

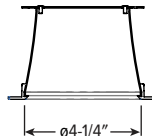


TRIM TYPE DETAILS

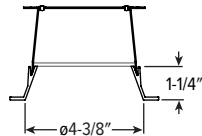
OPEN



FLUSH

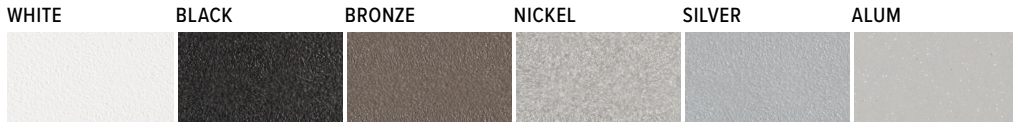


REGRESSED



6CR LED 6.5" Compact Cylinder – Round

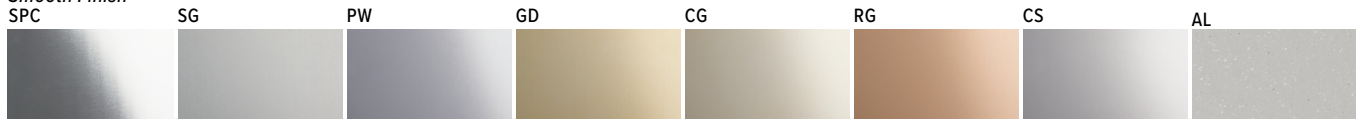
HOUSING FINISH DETAILS



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



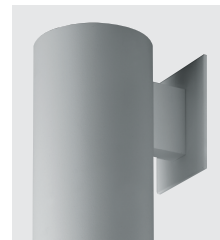
MOUNTING DETAILS

PENDANT MOUNT (PM__)

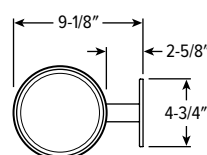


- Provided with:
- 45° Swivel canopy
 - 3/8" IPS Threaded stem
 - Specify length of stem, 6" minimum, 24" default length

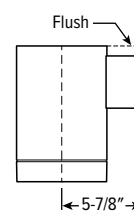
WALL MOUNT (WM)



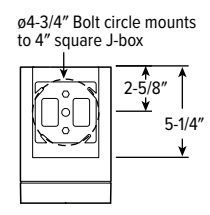
TOP VIEW



SIDE VIEW



BACK VIEW



SURFACE MOUNT (SM)



TwistLock™
Simple lift-and-twist mounting secures fixture to J-box w

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
	48	4		/W White
	96	5		/B Black
		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.



6CR LED 6.5" 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

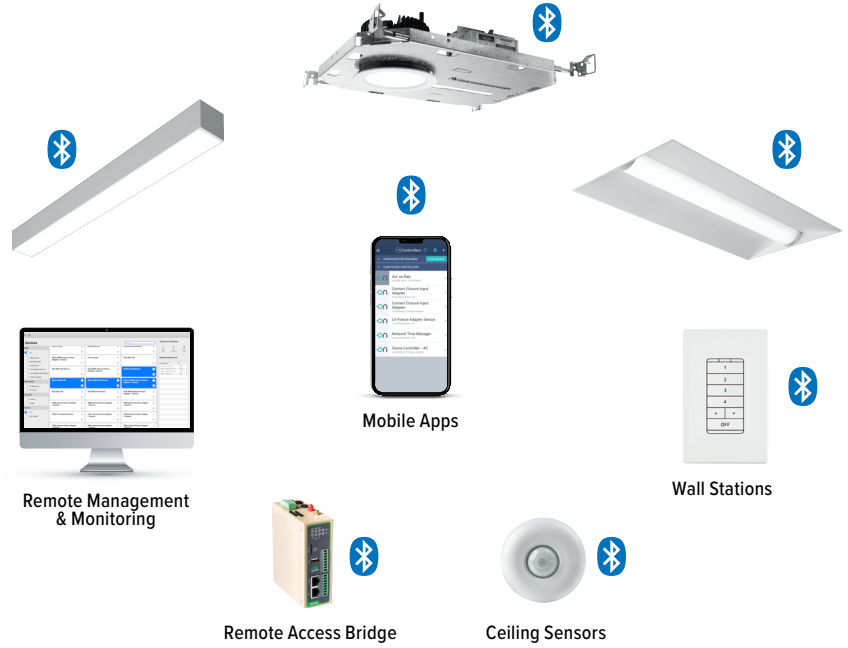


Zone Scanner Web App



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

