6CR LED
6.5" Compact Cylinder – Round

Williams

9-13/16″

ø4-1/2″
ø6-1/2″

CATALOG #: _____

TYPE: _____

PROJECT: _____

BAA & BABA COMPLIANT · Low UGR · 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]
6CR - TL TrimLock	10 10″ [3]	**Integral Driver [4]**	**Remote Driver**	8 80	27 2700K	**EM/10WRM/RTS** Remote mount 10-watt emergency battery with regressed test switch [6]	**ALUM** Silver sparkle aluminum
		L10 1,000lm	L50 5,000lm	9 90	30 3000K		**BLK** Textured black
		L15 1,500lm	L60 6,000lm		35 3500K	**F** Fuse	**BRZ** Textured bronze
		L20 2,000lm	L70 7,000lm [5]		40 4000K	**RDB** Remote mount control/driver box, galvanized steel [7]	**NKL** Textured nickel
		L30 3,000lm			50 5000K		**SLV** Textured silver
		L40 4,000lm					**WHT** Textured white

CONTROL
See page 3 for ADDITIONAL CONTROL/DRIVER OPTIONS.
- **–** None
- **AVI-LVFA** Avi-on wireless fixture control [8]
- **AWNR** Lutron Athena wireless node integral fixture control, RF only [9]

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 [10]

VOLTAGE
- **UNV** 120-277V
- **347** 347V [11]

TRIM

TRIM TYPE
- **O** Open reflector
- **F** Open reflector with frosted top diffuser [13]
- **L** Flush lens
- **R** Regressed lens

DISTRIBUTION
See page 2 for BEAM ANGLE.
- **W** Wide
- **M** Medium [14]
- **N** Narrow [15]

REFLECTOR FINISH [12]
Open Trim Types
- **CS** Clear semi-specular anodize
- **SG** Satin-glow anodize
- **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

TRIM OPTIONS
- **AD** Diffuse acrylic lens [16]
- **PD** Diffuse 1/8″ polycarbonate lens [17]

MOUNTING

MOUNTING TYPE [18]
- **CM__** Adjustable aircraft cable mount, 24″, 48″, 96″, or 144″ only, must specify. Example: 24″ cable = **CM24** [19]
- **PM__** Pendant mount. Example: 24″ pendant = **PM24** [20]
- **PC__** Power cord mount. Example: 24″ cord = **PC24** [21]
- **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] Restrictions apply. See page 3 for ADDITIONAL CONTROL/DRIVER OPTIONS.
[5] O Trim Type only.
[6] 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.

[7] Painted driver box available, specify RDB/BLK or RDB/WHT.
[8] DA Driver only. Installed in remote box, must specify RDB Option. See page 6 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
[9] DA Driver only. Installed in remote box, must specify RDB Option.
[10] Avi-on and Lutron Athena Controls only.
[11] RDB Option required. Not available with EM batteries, DA, or DMX drivers.
[12] See page 4 for REFLECTOR FINISH DETAILS.
[13] L50 lumen package max.
[14] Not available with lumen stops L50 and higher when specified with flush or regressed trim types.

[15] Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
[16] Not available with O or F Trim Types. W Distribution only.
[17] Not available with O or F Trim Types. W Distribution only.
[18] See page 5 for MOUNTING DETAILS.
[19] Canopy painted white unless specified otherwise. Must specify cord. See page 5 for CORD OPTIONS.
[20] Specify length in 1″ increments, minimum 6″. Canopy and pendant match fixture housing color unless specified otherwise.
[21] 48″ and 96″ lengths available. Canopy painted white unless specified otherwise. Must specify cord. See page 5 for CORD OPTIONS.

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Cylinders
Page 1 of 6

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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
- 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. 50/60 Hz constant current driver.
- 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.
  - 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 DELIVERED LUMENS	OPEN REFLECTOR TRIM TYPE EFFICACY (lm/W)	FLUSH LENS TRIM TYPE DELIVERED LUMENS	FLUSH LENS TRIM TYPE EFFICACY (lm/W)	REGRESSED LENS TRIM TYPE DELIVERED LUMENS	REGRESSED LENS TRIM TYPE EFFICACY (lm/W)
L10	W	9.0	1027	114	674	75	660	73
L10	M	9.0	999	111	895	99	895	99
L10	N	9.0	1000	111	914	102	882	98
L15	W	13.9	1466	105	994	72	972	70
L15	M	13.9	1471	106	1319	95	1319	95
L15	N	13.9	1473	106	1347	97	1300	94
L20	W	19.8	2005	101	1352	68	1323	67
L20	M	19.8	2002	101	1794	91	1795	91
L20	N	19.8	2004	101	1833	93	1769	89
L30	W	27.8	2985	107	2022	73	1979	71
L30	M	27.8	2900	104	2683	97	2685	97
L30	N	27.8	2734	98	2741	99	2646	95
L40	W	38.0	3979	105	2695	71	2638	69
L40	M	38.0	3865	102	3577	94	3579	94
L40	N	38.0	3644	96	3654	96	3527	93
RDB OPTION REQUIRED								
L50	W	45.2	5124	113	3364	74	3292	73
L50	M	45.2	4956	110	–	–	–	–
L50	N	45.1	4818	107	–	–	–	–
L60	W	50.4	6041	120	4074	81	3986	79
L60	M	50.4	5842	116	–	–	–	–
L60	N	50.4	5679	113	–	–	–	–
L70	W	61.7	7044	114	–	–	–	–
L70	M	61.7	6812	110	–	–	–	–
L70	N	61.7	6623	107	–	–	–	–

MULTIPLIER TABLES

COLOR TEMPERATURE

	CCT	CONVERSION FACTOR
80 CRI	2700K	0.92
80 CRI	3000K	0.98
80 CRI	3500K	1.00
80 CRI	4000K	1.01
80 CRI	5000K	1.02
90 CRI	2700K	0.76
90 CRI	3000K	0.79
90 CRI	3500K	0.82
90 CRI	4000K	0.84
90 CRI	5000K	0.88

TRIM OPTIONS

CATALOG NUMBER	CONVERSION FACTOR
F	0.75
AD	0.85
PD	0.85

REFLECTOR FINISH

	CATALOG NUMBER	CONVERSION FACTOR
O TRIM	CS	1.00
O TRIM	SG [1]	0.92
O TRIM	GD	0.93
O TRIM	CG	0.96
O TRIM	PW	0.86
O TRIM	SPC	1.02
O TRIM	RG	0.88
O TRIM	WH [1]	0.89
O TRIM	BL [1]	0.47
R TRIM	WH	1.00
R TRIM	CS [1]	0.98
R TRIM	BL [1]	0.79
R TRIM	BZ [1]	0.76
R TRIM	NK [1]	0.81
R TRIM	SV [1]	0.81
R TRIM	AL [1]	0.86
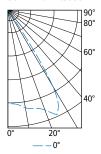
[1] Distribution will also be affected, consult factory.
[2] Beam angle based on CS or WH Reflector Finish.

BEAM ANGLE

	TRIM TYPE [2] O	F	L	R
W	65°	60°	50°	50°
M	45°	50°	35°	30°
N	10°	25°	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

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

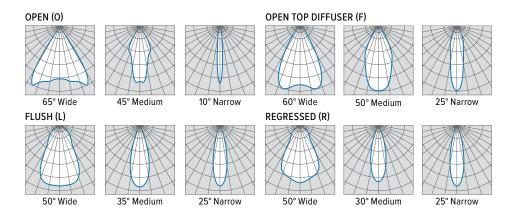| VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	1810	
5	1864	178
15	1960	556
25	2231	1033
35	307	193
45	44	35
55	11	10
65	1	1
75	0	0
85	0	0
90	0	

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

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Cylinders
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OPEN (O)

65° Wide   45° Medium   10° Narrow

OPEN TOP DIFFUSER (F)

60° Wide   50° Medium   25° Narrow

FLUSH (L)

50° Wide   35° Medium   25° Narrow

REGRESSED (R)

50° Wide   30° Medium   25° Narrow
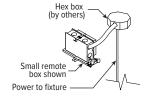
ADDITIONAL CONTROL/DRIVER OPTIONS

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

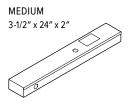| CONTROL/DRIVER	DESCRIPTION	RDB DETAILS BY LUMEN STOP								
		L10	L15	L20	L30	L40	L50	L60	L70	w/EM
DIM	Dimming driver prewired for 0-10V low voltage applications	O I S	O I S	O I S	O I S	O I M	R I M	R I M	R I M	R I L
DIM1	1% dimming driver prewired for 0-10V low voltage applications	O I S	O I S	O I S	O I S	O I M	R I M	R I M	R I M	R I L
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)	—	O I S	O I S	O I S	O I M	R I M	R I M	—	R I L
DMX	0.1% dimming driver for DMX controls	R I M	R I M	R I M	R I M	R I M	—	—	—	R I L
DALI	DALI dimming driver	R I M	R I M	R I M	R I M	R I M	R I M	—	—	R I L
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver	R I M	R I M	R I M	R I M	R I M	—	—	—	R I L
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power	R I S	R I S	R I S	R I S	R I M	R I M	R I M	R I M	R I L
AWNR/DA	Lutron Athena wireless node integral fixture control, RF only, for use with driver with 12V auxiliary power	R I S	R I S	R I S	R I S	R I M	R I M	R I M	R I M	R I L
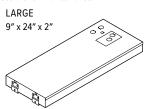
REMOTE MOUNT DETAILS

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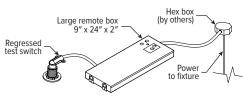

Hex box (by others)

Small remote box shown

Power to fixture

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	
R I S	RDB Required, Small Box
O I S	RDB Optional, Small Box
O I M	RDB Optional, Medium Box
R I M	RDB Required, Medium Box
R I L	RDB Required, Large Box

EMERGENCY BATTERY DETAILS

Regressed test switch
ø1-3/4″

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

Large remote box
9″ x 24″ x 2″

Hex box (by others)

Regressed test switch

Power to fixture

TRIMLOCK DETAILS

TWIST

PULL

RELEASE

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TRIM TYPE DETAILS

OPEN	OPEN TOP DIFFUSER	FLUSH	REGRESSED
ø4-1/2"	ø4-1/2"	ø4-1/4"	ø4-3/8" 1-1/4"

HOUSING FINISH DETAILS

WHITE	BLACK	BRONZE	NICKEL	SILVER	ALUM

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	SG	PW	GD	CG	RG	CS	AL

Textured Finish

WH	BL	BZ	NK	SV

SEE NEXT PAGE FOR MOUNTING DETAILS.

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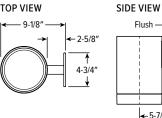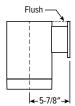## 6.5" Compact Cylinder – Round

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

9-1/8"
2-5/8"
4-3/4"

SIDE VIEW

Flush

5-7/8"

BACK VIEW

ø4-3/4" Bolt circle mounts to 4" square J-box

2-5/8"
5-1/4"

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" **48** 48" **96** 96"	**3** 3 **4** 4 **5** 5 **6** 6	**8** 18-gauge	**Standard** **/W** White **/B** Black **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.

White   Black   Brass   Aegean Blue   Red

Silver   Gunmetal   Nickel   Gray

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

Mobile Apps

Remote Management & Monitoring

Wall Stations

Remote Access Bridge

Ceiling Sensors

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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

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