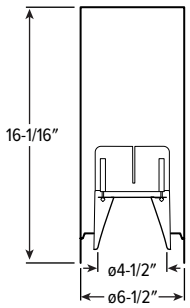
6CR LED
6.5″ Cylinder – Round



CATALOG #:

TYPE:

PROJECT:

BAA & BABA COMPLIANT · Low UGR · TrimLock® · TwistLock™

ORDERING EXAMPLE: 6CR - TL - 16 - 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	**16** 16″	**L10** 1,000lm **L15** 1,500lm **L20** 2,000lm **L30** 3,000lm **L40** 4,000lm **L50** 5,000lm **L60** 6,000lm **L70** 7,000lm [3]	**8** 80 **9** 90	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **50** 5000K	**EM/10WRM/RTS** Remote mount 10-watt emergency battery with regressed test switch [4] **F** Fuse **RDB** Remote mount control/driver box, galvanized steel	**ALUM** Silver sparkle aluminum **BLK** Textured black **BRZ** Textured bronze **NKL** Textured nickel **SLV** Textured silver **WHT** Textured white

CONTROL

See page 3 for ADDITIONAL CONTROL/DRIVER OPTIONS.

– None
AVI-LVFA Avi-on wireless fixture control [5]
AWNR Lutron Athena wireless node integral fixture control, RF only [6]

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 [7]

VOLTAGE

UNV 120-277V
347 347V [8]

TRIM

TRIM TYPE

O Open reflector
F Open reflector with frosted top diffuser [10]
L Flush lens
R Regressed lens

DISTRIBUTION

See page 2 for BEAM ANGLE.

W Wide
M Medium [11]
N Narrow [12]

REFLECTOR FINISH [9]

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 [13]
PD Diffuse 1/8″ polycarbonate lens [14]

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. O Trim Type only.
4. 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.
5. DA Driver only.
6. DA Driver only. SM Mounting Type installed in remote box, must specify RDB Option.
7. Avi-on and Lutron Athena Controls only.
8. Not available with EM batteries, DA, or DMX drivers.
9. See page 4 for REFLECTOR FINISH DETAILS.
10. L50 lumen package max.
11. Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
12. Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
13. Not available with O or F Trim Types. W Distribution only.
14. Not available with O or F Trim Types. W Distribution only.
15. See page 5 for MOUNTING DETAILS.
16. Canopy painted white unless specified otherwise. Must specify cord. See page 5 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 5 for CORD OPTIONS.

6CR LED
6.5" Cylinder – Round

FEATURES

- Wide range of lumen options for general illumination
- 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. Max weight 9-1/2 lbs.
- 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

			OPEN REFLECTOR TRIM TYPE		FLUSH LENS TRIM TYPE		REGRESSED LENS TRIM TYPE	
	DISTRIBUTION	WATTAGE	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	–	–	–	–

- 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.

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	0.75
AD	0.85
PD	0.85

	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
	BL [1]	0.47
R TRIM	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

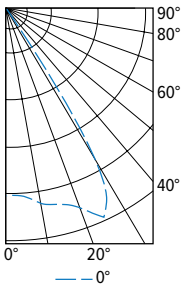
BEAM ANGLE

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

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

PHOTOMETRY

6CR-TL-16-L20/835-DIM-UNV-OW-CS Total Luminaire Output: 2005 lumens; 19.8 Watts | Efficacy: 101.0 lm/W | 80 CRI; 3500K CCT



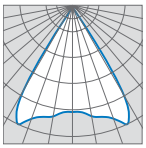
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
	0	1810	
	5	1864	178
	15	1960	556
	25	2231	1033
	35	307	193
	45	44	35
	55	11	10
	65	1	1
	75	0	0
	85	0	0
	90	0	

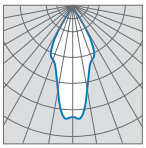
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1959	98
	0 - 60	2004	100
	0 - 90	2005	100
	0-180	2005	100

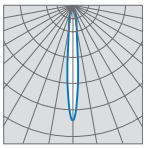
PHOTOMETRY CONTINUED ON NEXT PAGE.

6CR LED
6.5″ Cylinder – Round

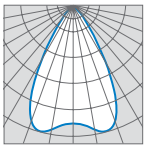
OPEN (O)

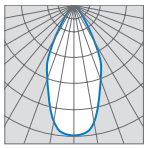

65° Wide

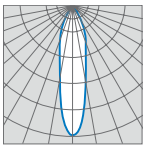

45° Medium


10° Narrow

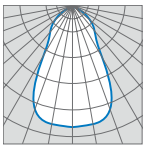
OPEN TOP DIFFUSER (F)

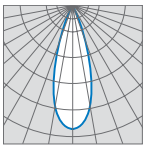

60° Wide

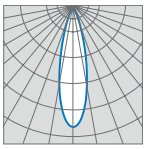

50° Medium


25° Narrow

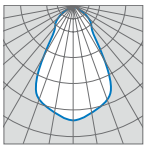
FLUSH (L)

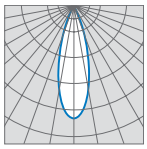

50° Wide

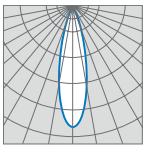

35° Medium


25° Narrow

REGRESSED (R)


50° Wide


30° Medium


25° Narrow

ADDITIONAL CONTROL/DRIVER OPTIONS

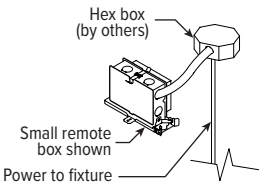
Lumen restrictions apply: L50 max DALI driver, L40 max for DMX and LDE1 drivers, L15 min to L60 max for DIM LINE driver.

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 | S	O | S	O | S	O | S	O | M	O | M	O | M	O | M	R | L
DIM1	1% dimming driver prewired for 0-10V low voltage applications	O | S	O | S	O | S	O | S	O | M	O | M	O | M	O | M	R | L
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)	—	O | S	O | S	O | S	O | M	O | M	O | M	—	R | L
DMX	0.1% dimming driver for DMX controls	R | M	R | M	R | M	R | M	R | M	—	—	—	R | L
DALI	DALI dimming driver	O | M	O | M	O | M	O | M	O | M	O | M	—	—	R | L
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver	O | M	O | M	O | M	O | M	O | M	—	—	—	R | L
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power	O | S	O | S	O | S	O | S	O | M	O | M	O | M	O | M	R | L
AWNR/DA [1]	Lutron Athena wireless node integral fixture control, RF only, for use with driver with 12V auxiliary power	O | S	O | S	O | S	O | S	O | M	O | M	O | M	O | M	R | L

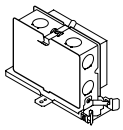
[1] RDB Option required when specified with SM Mounting Type, size follows table above.

REMOTE MOUNT DETAILS

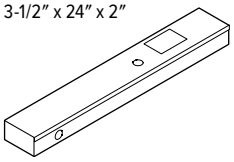
Max remote distance is 50′ including suspension length, connection by others. Must be room-side accessible for maintenance.



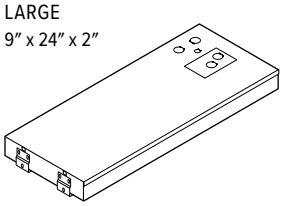
SMALL
Snap-in junction box
6-1/2″ x 3″ x 4-1/2″



MEDIUM
3-1/2″ x 24″ x 2″

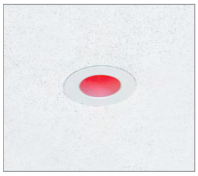


LARGE
9″ x 24″ x 2″

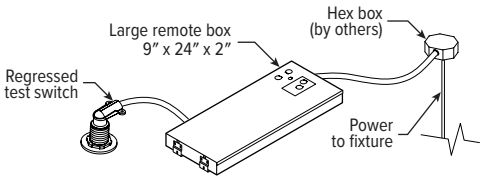


REMOTE MOUNT KEY	
O | S	RDB Optional, Small Box
O | M	RDB Optional, Medium Box
R | M	RDB Required, Medium Box
R | L	RDB Required, Large Box

EMERGENCY BATTERY DETAILS


Regressed test switch
ø1-3/4″

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



TRIMLOCK DETAILS

TWIST

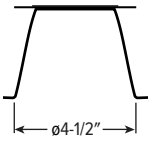
PULL

RELEASE

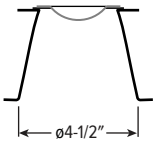
6CR LED
6.5″ Cylinder – Round

TRIM TYPE DETAILS

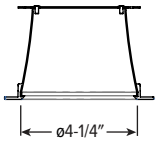
OPEN



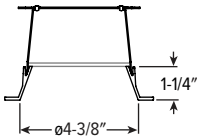
OPEN TOP DIFFUSER



FLUSH



REGRESSED



HOUSING FINISH DETAILS

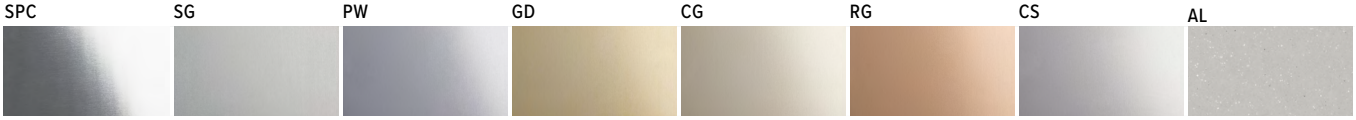
WHITE | BLACK | BRONZE | NICKEL | SILVER | ALUM | RAL#____

For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require four 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.

6CR LED
6.5″ Cylinder – Round

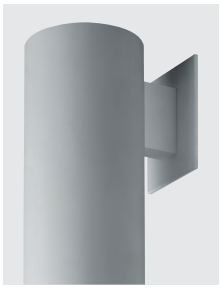
MOUNTING DETAILS

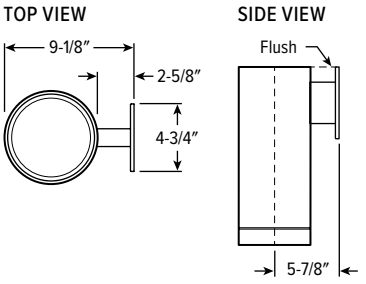
PENDANT MOUNT (PM__)

Provided with:

- 38° Swivel canopy
- 3/8″ IPS Threaded stem
- Specify length of stem, 6″ minimum, 24″ default length

WALL MOUNT (WM)





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