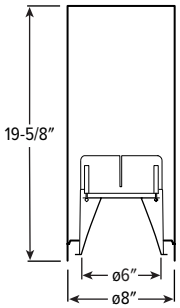
# 8CR LED
## 8″ Cylinder – Round




CATALOG #:

TYPE:

PROJECT:

BAA & BABA COMPLIANT

ENERGY STAR

TrimLock® TwistLock™

ORDERING EXAMPLE: 8CR - TL - 20 - 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] |
|---|---|---|---|---|---|---|
| **8CR - TL** TrimLock | **20** 20″ | **L10** 1,000lm<br>**L20** 2,000lm<br>**L30** 3,000lm<br>**L40** 4,000lm<br>**L50** 5,000lm<br>**L60** 6,000lm<br>**L70** 7,000lm<br>**L80** 8,000lm<br>**L90** 9,000lm<br>**L100** 10,000lm<br>**L110** 11,000lm [3] | **8** 80<br>**9** 90 | **27** 2700K<br>**30** 3000K<br>**35** 3500K<br>**40** 4000K<br>**50** 5000K | **EM/10WRM/RTS** Remote mount 10-watt emergency battery with regressed test switch [4]<br>**F** Fuse<br>**RDB** Remote mount control/driver box, galvanized steel | **ALUM** Silver sparkle aluminum<br>**BLK** Textured black<br>**BRZ** Textured bronze<br>**NKL** Textured nickel<br>**SLV** Textured silver<br>**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]
**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. Open 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. RDB Option required when specified with L70 to L100 lumen packages. Not available with L110 lumen package, EM batteries, DA or DMX Drivers.
9. See page 4 for REFLECTOR FINISH DETAILS.
10. L50 lumen package max.
11. Not available with lumen packages L50 and higher when specified with L or R Trim Types.
12. Not available with lumen packages L50 and higher when specified with L or R 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.

# 8CR LED
## 8″ Cylinder – Round

### FEATURES

- Parallel the performance and style of the Williams downlight collection
- Precision illumination with 10° narrow to 65° wide optics
- Complement the architectural elements of any space with a multitude of housing, trim and cord finishes
- Limitless application opportunities via pendant, cable, wall and ceiling mounts
- Precision-engineered extruded aluminum housing and die-cast aluminum trim face for clean aesthetic
- Ensure a simple and secure installation with TwistLock™ surface mount
- Industry-leading efficacies as high as 117 lm/W – ENERGY STAR® certified
- 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.
- MOUNTING – Surface, cable, pendant, or wall mount. Indoor applications only. Max weight 14 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.
  - ENERGY STAR® certified in select configurations, see www.energystar.gov
  - 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 | 8.7 | 1014 | 117 | 774 | 89 | 716 | 82 |
| | M | 8.7 | 982 | 113 | 910 | 105 | 883 | 101 |
| | N | 8.7 | 1003 | 115 | 909 | 104 | 897 | 103 |
| L20 | W | 19.0 | 1988 | 105 | 1562 | 82 | 1445 | 76 |
| | M | 19.1 | 1983 | 104 | 1837 | 96 | 1782 | 93 |
| | N | 19.1 | 2026 | 106 | 1836 | 96 | 1812 | 95 |
| L30 | W | 26.9 | 3062 | 114 | 2335 | 87 | 2160 | 80 |
| | M | 26.9 | 3003 | 112 | 2782 | 103 | 2699 | 100 |
| | N | 26.9 | 3000 | 112 | 2718 | 101 | 2683 | 100 |
| L40 | W | 36.5 | 4094 | 112 | 3122 | 86 | 2889 | 79 |
| | M | 36.4 | 4016 | 110 | 3720 | 102 | 3609 | 99 |
| | N | 36.4 | 4011 | 110 | 3635 | 100 | 3587 | 99 |
| L50 | W | 43.9 | 5014 | 114 | 3824 | 87 | 3537 | 81 |
| | M | 43.9 | 4935 | 112 | – | – | – | – |
| | N | 43.9 | 5047 | 115 | – | – | – | – |
| L60 | W | 54.0 | 6043 | 112 | 4609 | 85 | 4264 | 79 |
| | M | 54.0 | 5948 | 110 | – | – | – | – |
| | N | 54.0 | 6083 | 113 | – | – | – | – |
| L70 | W | 67.8 | 7008 | 103 | 5345 | 79 | 4945 | 73 |
| | M | 67.8 | 6898 | 102 | – | – | – | – |
| | N | 67.8 | 7055 | 104 | – | – | – | – |
| L80 | W | 79.8 | 8018 | 100 | 6115 | 77 | 5657 | 71 |
| | M | 79.8 | 7891 | 99 | – | – | – | – |
| | N | 79.8 | 8071 | 101 | – | – | – | – |
| L90 | W | 70.8 | 9077 | 128 | 6923 | 98 | 6404 | 90 |
| | M | 70.8 | 8934 | 126 | – | – | – | – |
| | N | 70.8 | 9136 | 129 | – | – | – | – |
| L100 | W | 79.7 | 10018 | 126 | 7640 | 96 | 7068 | 89 |
| | M | 79.7 | 9860 | 124 | – | – | – | – |
| | N | 79.7 | 10083 | 127 | – | – | – | – |
| L110 | W | 91.1 | 11093 | 122 | – | – | – | – |
| | M | 91.1 | 10918 | 120 | – | – | – | – |
| | N | 91.1 | 11166 | 123 | – | – | – | – |

### 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

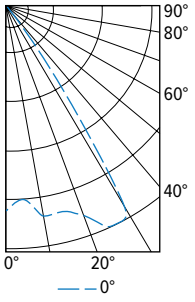
| | TRIM TYPE [2] | | | |
|---|---|---|---|---|
| | O | F | L | R |
| W | 65° | 70° | 55° | 55° |
| M | 35° | 35° | 35° | 35° |
| N | 10° | 20° | 25° | 25° |

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

**8CR-TL-20-L20/835-DIM-UNV-OW-CS** Total Luminaire Output: 1988 lumens; 19.0 Watts | Efficacy: 104.6 lm/W | 80 CRI; 3500K CCT

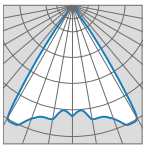


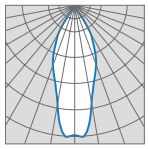

| CANDLEPOWER DISTRIBUTION | | |
|---|---|---|
| VERTICAL ANGLE | HORIZONTAL ANGLE 0° | ZONAL LUMENS |
| 0 | 1672 | |
| 5 | 1579 | 151 |
| 15 | 1735 | 492 |
| 25 | 1982 | 917 |
| 35 | 604 | 380 |
| 45 | 46 | 36 |
| 55 | 13 | 12 |
| 65 | 2 | 2 |
| 75 | 0 | 0 |
| 85 | 0 | 0 |
| 90 | 0 | |

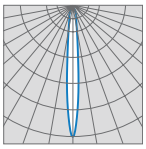
| LUMEN SUMMARY | | |
|---|---|---|
| ZONE | LUMENS | % FIXTURE |
| 0 - 40 | 1939 | 98 |
| 0 - 60 | 1987 | 100 |
| 0 - 90 | 1988 | 100 |
| 0 - 180 | 1988 | 100 |

# 8CR LED
## 8″ Cylinder – Round

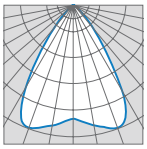
**OPEN (O)**

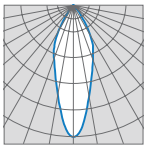

65° Wide

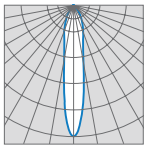

35° Medium


10° Narrow

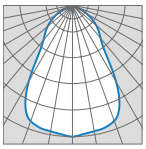
**OPEN TOP DIFFUSER (F)**

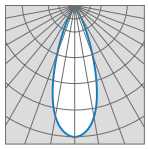

70° Wide

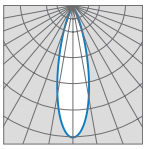

35° Medium


20° Narrow

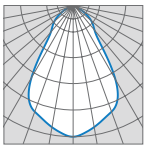
**FLUSH (L)**

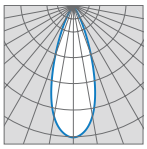

55° Wide

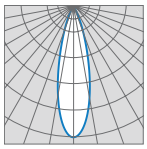

35° Medium


25° Narrow

**REGRESSED (R)**


55° Wide


35° Medium


25° Narrow

## ADDITIONAL CONTROL/DRIVER OPTIONS

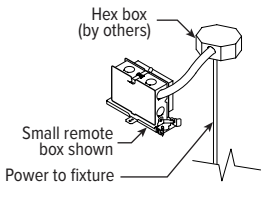
Lumen restrictions apply: L60 max for DALI drivers, L40 max for DMX and LDE1 drivers, L15 min to L60 max for DIM LINE driver.

| CONTROL/DRIVER | DESCRIPTION | RDB DETAILS BY LUMEN STOP | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | L10 | L20 | L30 | L40 | L50 | L60 | L70 | L80 | L90 | L100 | L110 | w/EM |
| DIM | Dimming driver prewired for 0-10V low voltage applications | O \| S | O \| S | O \| S | O \| M | O \| M | O \| M | O \| M | 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 \| M | O \| M | O \| M | O \| M | 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 \| M | O \| M | O \| M | — | — | — | — | — | R \| L |
| DMX | 0.1% dimming driver for DMX controls | 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 | — | — | — | — | — | — | — | 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 \| M | O \| M | O \| M | O \| M | 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 \| M | O \| M | O \| M | O \| M | O \| M | O \| M | O \| M | O \| M | R \| L |

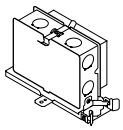
[1] RDB Option required when specified with SM Mounting Type, size follows table above.

### REMOTE MOUNT DETAILS

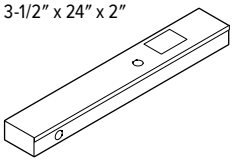
Max remote distance is 50′ including suspension length, connection by others. Must be room-side accessible for maintenance.



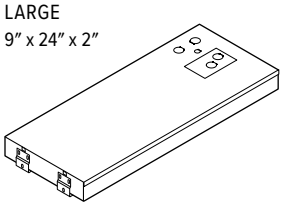

SMALL
Snap-in junction box
6-1/2″ x 3″ x 4-1/2″



MEDIUM
3-1/2″ x 24″ x 2″

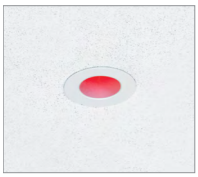


LARGE
9″ x 24″ x 2″

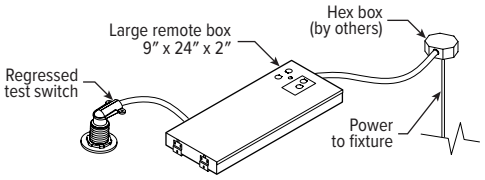


| REMOTE MOUNT KEY | |
|---|---|
| O \| S | RDB Optional, Small Box |
| O \| M | RDB Optional, Medium Box |
| R \| M | RDB Required, Medium Box |
| R \| L | RDB Required, Large Box |

## EMERGENCY BATTERY DETAILS


Regressed test switch
ø1-3/4″

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



# 8CR LED
## 8″ Cylinder – Round

### TRIMLOCK DETAILS

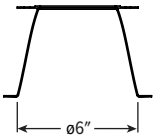
TWIST

PULL

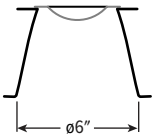
RELEASE

### TRIM TYPE DETAILS

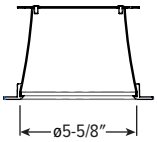
OPEN



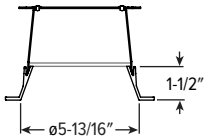

OPEN TOP DIFFUSER




FLUSH




REGRESSED




### HOUSING FINISH DETAILS

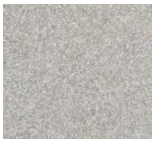
WHITE



BLACK

BRONZE

NICKEL



SILVER

ALUM

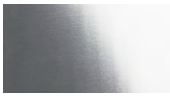
RAL#____

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

# 8CR LED
## 8″ Cylinder – Round

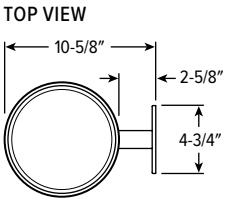
## MOUNTING DETAILS

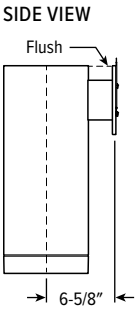
### PENDANT MOUNT (PM__)

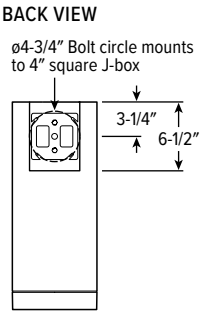
Provided with:

- 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

## CORD OPTIONS

Must specify cord when cable mounting.

| ORDERING EXAMPLE: S2438/W | | | | |
|---|---|---|---|---|
| **CORD TYPE** | **LENGTH** | **# CONDUCTORS** | **WIRE SIZE** | **COLOR** |
| **S** Straight | **24** 24″<br>**48** 48″<br>**96** 96″ | **3** 3<br>**4** 4<br>**5** 5<br>**6** 6 | **8** 18-gauge | **Standard**<br>**/W** White<br>**/B** Black<br>**Braided** [1]<br>**/WH** White<br>**/BL** Black<br>**/BR** Brass<br>**/AE** Aegean Blue<br>**/RE** Red<br>**/SV** Silver<br>**/GU** Gunmetal<br>**/NK** Nickel<br>**/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