8CR tunable WHITE
8″ Cylinder – Round

Williams

19-5/8″

ø6″
ø8″

CATALOG #: _____

TYPE: _____

PROJECT: _____

BAA & BABA COMPLIANT

TrimLock® TwistLock™

ORDERING EXAMPLE: 8CR - TL - 20 - L13/8TW - OPTIONS - WHT - CONTROL/DIM - UNV - OW - CS - TRIM OPTIONS - CM

——————————————— HOUSING ——————————————— | —— TRIM —— | MOUNT.

HOUSING

SERIES	HEIGHT	LUMENS [1]	COLOR	OPTIONS		HOUSING FINISH [2]	
8CR - TL TrimLock	**20** 20″	**L13** 1,300lm **L23** 2,300lm **L42** 4,200lm	**8TW** Tunable white (80 CRI, 2700K-5000K)	**EM/10WRM/RTS** **F** **RDB**	Remote mount 10-watt emergency battery with regressed test switch [3] Fuse Remote mount control/driver box, galvanized steel [4]	**ALUM** **BLK** **BRZ** **NKL** **SLV** **WHT**	Silver sparkle aluminum Textured black Textured bronze Textured nickel Textured silver Textured white

CONTROL	DRIVER	VOLTAGE
See page 3 for CONTROL/ DRIVER DETAILS. **–** None **AWNR** Lutron Athena wireless node integral fixture control, RF only [5]	*See page 3 for CONTROL/DRIVER DETAILS.* **DALI** Driver prewired for DALI applications **DIM** Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT **DMX** Driver prewired for DMX applications [6] **LD2** Lutron DALI-2 digital driver, 1%	**UNV** 120-277V

TRIM

TRIM TYPE	DISTRIBUTION	REFLECTOR FINISH [7]		TRIM OPTIONS
O Open reflector **F** Open reflector with frosted top diffuser **L** Flush lens **R** Regressed lens	*See page 2 for BEAM ANGLE.* **W** Wide **M** 35° Medium [8] **N** 10° Narrow [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	**AD** Diffuse acrylic lens [10] **PD** Diffuse 1/8″ polycarbonate lens [11]

MOUNTING

MOUNTING TYPE [12]

CM__ Adjustable aircraft cable mount, 24″, 48″, 96″, or 144″ only, must specify. Example: 24″ cable = **CM24** [13]
PM__ Pendant mount. Example: 24″ pendant = **PM24** [14]
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 Finishh, 80 CRI/4000K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA
2 See page 3 for HOUSING FINISH DETAILS.
3 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.
4 Painted driver box available, specify RDB/BLK or RDB/WHT.
5 LD2 Driver only. SM Mounting Type installed in remote box, must specify RDB Option.
6 Installed in medium remote box, must specify RDB Option.
7 See page 4 for REFLECTOR FINISH DETAILS.

8 Not available with L42 lumen stop when specified with L or R Trim Types.
9 Not available with L42 lumen stop when specified with L or R Trim Types.
10 Not available with O or F Trim Types. W Distribution only.
11 Not available with O or F Trim Types. W Distribution only.
12 See page 4 for MOUNTING DETAILS.
13 Canopy painted white unless specified otherwise. Must specify cord. See page 4 for CORD OPTIONS.
14 Specify length in 1″ increments, minimum 6″. Canopy and pendant match fixture housing color unless specified otherwise.

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Cylinders
Page 1 of 4

8CR tunable WHITE
8″ Cylinder – Round

FEATURES

- Support human-centric design with adaptive, individualized lighting using tunable white light
- 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, 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
- 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 LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>50,000 hours. Tunable White products use LEDs of multiple CCTs and may produce a perceptibly different shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- 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.
  - 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)
L13	W	14.6	1320	90.4	1135	78.0	1098	75.5
L13	M	14.6	1317	90.2	1220	83.6	1183	81.0
L13	N	14.6	1345	92.1	1231	84.5	1199	82.4
L23	W	24.0	2357	98.0	1964	81.7	1900	79.0
L23	M	24.0	2285	95.0	2117	88.0	2059	85.6
L23	N	24.0	2187	90.9	2129	88.5	2075	86.3
L42	W	44.9	4304	96.0	3596	80.2	3480	77.6
L42	M	44.9	4173	93.0	–	–	–	–
L42	N	44.9	3994	89.0	–	–	–	–

- 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/4000K 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	LUMENS	WATTS
2700K	0.83	1.03
3000K	1.00	1.00
3500K	0.99	0.99
4000K	1.00	1.00
5000K	0.98	1.03

TRIM OPTIONS

CATALOG NUMBER	CONVERSION FACTOR
F	0.75
AD	0.85
PD	0.85

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

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

BEAM ANGLE

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

PHOTOMETRY

8CR-TL-20-L13/8TW-DIM-UNV-OW-CS Total Luminaire Output: 1320 lumens; 14.6 Watts | Efficacy: 90.4 lm/W | 80.0 CRI; 4000K CCT
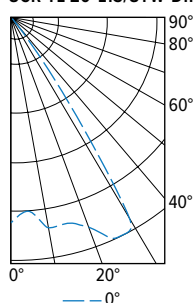
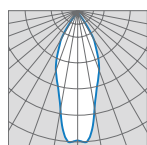| VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	1110	
5	1049	100
15	1152	327
25	1316	609
35	401	252
45	31	24
55	9	8
65	1	1
75	0	0
85	0	0
90	0	

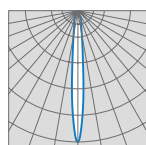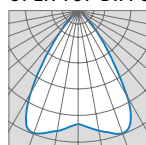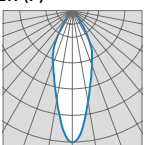| ZONE	LUMENS	% FIXTURE
0 - 40	1288	98
0 - 60	1320	100
0 - 90	1320	100
0 - 180	1320	100

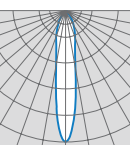### OPEN (O)
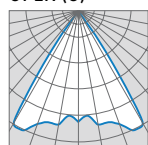
65° Wide
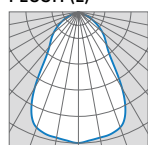

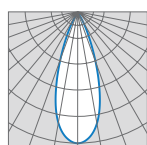35° Medium

10° Narrow

OPEN TOP DIFFUSER (F)

70° Wide

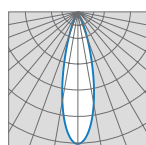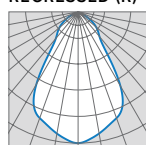35° Medium

20° Narrow

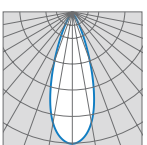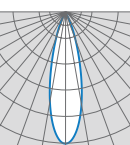### FLUSH (L)

55° Wide

35° Medium

25° Narrow

REGRESSED (R)

55° Wide

35° Medium

25° Narrow

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Cylinders
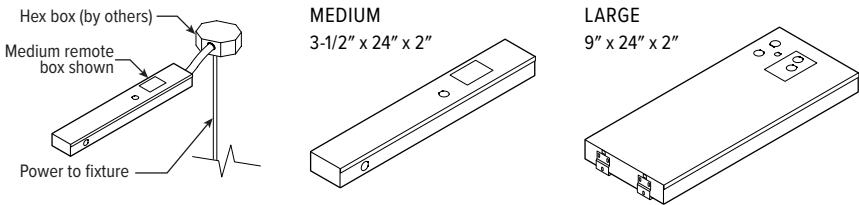Page 2 of 4

8CR tunable WHITE
8" Cylinder – Round

CONTROL/DRIVER DETAILS

CONTROL/DRIVER	DESCRIPTION	RDB DETAILS BY LUMEN STOP			
		L13	L23	L42	w/EM
DIM	Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT prewired for low voltage applications	O I M	O I M	O I M	R I L
DMX	Driver prewired for DMX applications	R I M	R I M	R I M	R I L
DALI	DALI dimming driver	O I M	O I M	O I M	R I L
LD2	Lutron DALI-2 digital driver, 1%	O I M	O I M	O I M	R I L
AWNR/LD2	Lutron Athena wireless node integral fixture control, RF only, for use with DALI-2 digital driver, 1%	O I M	O I M	O 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.

REMOTE MOUNT KEY	
O I M	RDB Optional, Medium Box
R I M	RDB Required, Medium Box
R I L	RDB Required, Large Box

Hex box (by others)
Medium remote box shown
Power to fixture

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

LARGE
9" x 24" x 2"

DIM
DIM (Int) +
DIM (CCT) +
DIM -
Fixture 1

DALI
DALI +
DALI -
Fixture 1

DMX
RJ45 Ports (IN/OUT)
Fixture (Master)

LD2
DA +
DA -
Fixture 1

EMERGENCY BATTERY DETAILS

Max remote distance is 50′ including suspension length, connection by others.
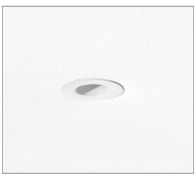
Regressed test switch ø1-3/4"

Large remote box 9" x 24" x 2"
Regressed test switch
Hex box (by others)
Power to fixture
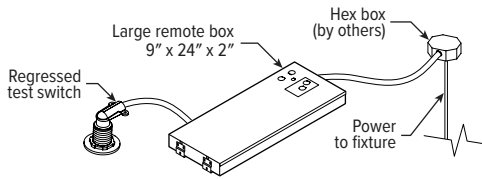
TRIMLOCK DETAILS

TWIST

PULL

RELEASE

TRIM TYPE DETAILS

OPEN
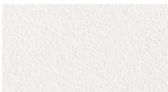ø6"
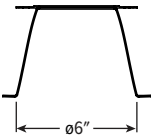
OPEN TOP DIFFUSER
ø6"
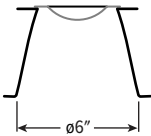
FLUSH
ø5-5/8"
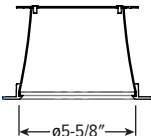
REGRESSED
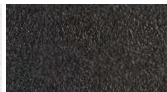ø5-13/16"
1-1/2"
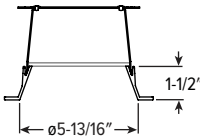
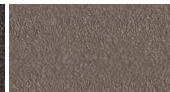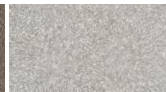## HOUSING FINISH DETAILS

WHITE   BLACK   BRONZE   NICKEL   SILVER   ALUM

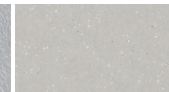For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

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Cylinders
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8CR
tunable WHITE
8″ Cylinder – Round

REFLECTOR FINISH DETAILS

Smooth Finish

| SPC | SG | PW | GD | CG | RG | CS | AL |

Textured Finish

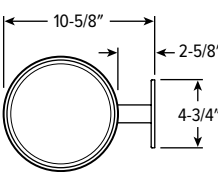| WH | BL | BZ | NK | SV |

MOUNTING DETAILS

PENDANT MOUNT (PM__)

Provided with:
- 38° Swivel canopy
- 3/8″ IPS Threaded stem
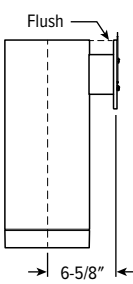- Specify length of stem, 6″ minimum, 24″ default length
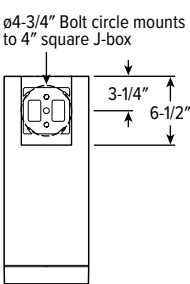
WALL MOUNT (WM)

TOP VIEW

10-5/8″
2-5/8″
4-3/4″

SIDE VIEW

Flush

6-5/8″

BACK VIEW

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

3-1/4″
6-1/2″

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″ **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 |

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