8CR LED
8" Cylinder – Round

Williams

19-5/8"

ø6"
ø8"

CATALOG #: _____

TYPE: _____

PROJECT: _____

BUY AMERICAN ACT COMPLIANT

ENERGY STAR

ORDERING EXAMPLE: 8CR - TL - L20/835 - OPTIONS - WHT - CONTROL/DIM - UNV - OW - CS - TRIM OPTIONS - CM

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

HOUSING

SERIES	LUMENS [1]	CRI	CCT	OPTIONS	HOUSING FINISH [2]	CONTROL	DRIVER	VOLTAGE
8CR - TL TrimLock	**L10** 1,000lm	**8** 80	**27** 2700K	*See page 4 for EMERGENCY BATTERY OPTIONS.*	**ALUM** Silver sparkle aluminum	*See page 5 for ADDITIONAL CONTROL/ DRIVER OPTIONS.*	*See page 5 for ADDITIONAL CONTROL/ DRIVER OPTIONS.*	**UNV** 120-277V
	L15 1,500lm	**9** 90 [4]	**30** 3000K	**F** Fuse	**BLK** Textured black	**–** None	**DIM** Dimming driver, 0-10V	**347** 347V [10]
	L20 2,000lm		**35** 3500K	**SDT** Stepdown transformer [5]	**BRZ** Textured bronze	**AVI-LVFA** Avi-on wireless fixture control [7]	**DIM1** 1% Dimming driver, 0-10V	
	L30 3,000lm		**40** 4000K	**RDB** Remote mount control/driver box, painted black [6]	**NKL** Textured nickel	**AWNR** Lutron Athena wireless node integral fixture control, RF only [8]	**DA** Driver with 12V auxiliary power, without external dimming wires [9]	
	L40 4,000lm		**50** 5000K		**SLV** Textured silver			
	L50 5,000lm				**WHT** Textured white			
	L60 6,000lm							
	L70 7,000lm							
	L80 8,000lm							
	L90 9,000lm							
	L100 10,000lm [3]							

TRIM

TRIM TYPE	DISTRIBUTION [11]	REFLECTOR FINISH [12]		TRIM OPTIONS
O Open reflector	**W** 65° Wide	**Open Trim Types**	**Lens Trim Types**	**AD** Diffuse acrylic lens [15]
L Flush lens	**M** 35° Medium [13]	**CS** Clear semi-specular anodize	**CS** Clear semi-specular powder coat	**PD** Diffuse 1/8" polycarbonate lens [16]
R Regressed lens	**N** 10° Narrow [14]	**SG** Satin-glow anodize	**WH** White texture powder coat	**TD** Diffuse polycarbonate lens media at top of open reflector [17]
		GD Gold anodize	**BL** Black texture powder coat	
		CG Champagne gold anodize	**BZ** Bronze texture powder coat	
		PW Pewter anodize	**NK** Nickel texture powder coat	
		SPC Clear specular anodize	**SV** Silver texture powder coat	
		RG Rose gold anodize	**AL** Silver sparkle aluminum	
		WH White texture powder coat		
		BL Black texture powder coat		

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]
SM TwistLock surface mount to octagonal J-box
WM Wall mount

NOTES

[1] Lumen output based on O trim type, W distribution and CS finish, 80CRI/3500K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA
[2] See page 3 for HOUSING FINISH DETAILS.
[3] Open Trim Type only.
[4] Extended lead times may apply. Consult factory for availability.
[5] May be required for 347V, see product builder at hew.com/product-builder.
[6] Painted white available, specify RDB/WHT.
[7] DA Driver only. See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
[8] DA Driver only. SM Mounting Type installed in remote box, must specify RDB Option.
[9] Avi-on and Lutron Athena Controls only.
[10] Not available with EM batteries, DA, or DMX drivers.
[11] Beam angle based on O Trim Type and CS reflector finish. Trim Type affects beam angle.See page 2 for FIXTURE PERFORMANCE DATA.

[12] See page 3 for REFLECTOR FINISH DETAILS.
[13] Not available with lumen stops L50 and higher when specified with L or R trim types.
[14] Not available with lumen stops L50 and higher when specified with L or R trim types.
[15] Not available with O trim type. W distribution only.
[16] Not available with O trim type. W distribution only.
[17] O Trim Type only. L50 lumen package max.
[18] See page 4 for MOUNTING DETAILS.
[19] Canopy painted white unless specified otherwise. Must specify cord. See page 4 for CORD OPTIONS.
[20] Specify length in 1" increments, minimum 6". Canopy and pendant match fixture housing color unless specified otherwise.

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Cylinders
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8CR LED
8″ Cylinder – Round

FEATURES

TrimLock® | TwistLock™

- High-output illumination for tall ceilings
- 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
- 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

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
  - 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 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	8.7	1014	117	774	89	716	82
L10	M	8.7	982	113	910	105	883	101
L10	N	8.7	1003	115	909	104	897	103
L15	W	13.8	1497	108	1178	85	1090	79
L15	M	13.8	1495	108	1385	100	1344	97
L15	N	13.8	1528	111	1384	100	1366	99
L20	W	19.0	1988	105	1562	82	1445	76
L20	M	19.1	1983	104	1837	96	1782	93
L20	N	19.1	2026	106	1836	96	1812	95
L30	W	26.9	3062	114	2335	87	2160	80
L30	M	26.9	3003	112	2782	103	2699	100
L30	N	26.9	3000	112	2718	101	2683	100
L40	W	36.5	4094	112	3122	86	2889	79
L40	M	36.4	4016	110	3720	102	3609	99
L40	N	36.4	4011	110	3635	100	3587	99
L50	W	43.9	5014	114	3824	87	3537	81
L50	M	43.9	4935	112	–	–	–	–
L50	N	43.9	5047	115	–	–	–	–
L60	W	54.0	6043	112	4609	85	4264	79
L60	M	54.0	5948	110	–	–	–	–
L60	N	54.0	6083	113	–	–	–	–
L70	W	67.8	7008	103	5345	79	4945	73
L70	M	67.8	6898	102	–	–	–	–
L70	N	67.8	7055	104	–	–	–	–
L80	W	79.8	8018	100	6115	77	5657	71
L80	M	79.8	7891	99	–	–	–	–
L80	N	79.8	8071	101	–	–	–	–
L90	W	80.1	9156	114	6983	87	6460	81
L90	M	80.1	9012	113	–	–	–	–
L90	N	80.1	9216	115	–	–	–	–
L100	W	89.8	10180	113	–	–	–	–
L100	M	89.8	10020	112	–	–	–	–
L100	N	89.8	10247	114	–	–	–	–

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

CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85
TD	0.75

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
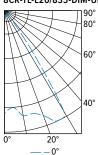
BEAM ANGLE

TRIM TYPE		OPEN	FLUSH	REGRESSED
W		65°	55°	55°
M		35°	35°	35°
N		10°	25°	25°

1 Distribution will also be affected, consult factory.
- Photometrics tested in accordance with IESNA LM-79. Results based on O trim type, W distribution and CS finish, 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.
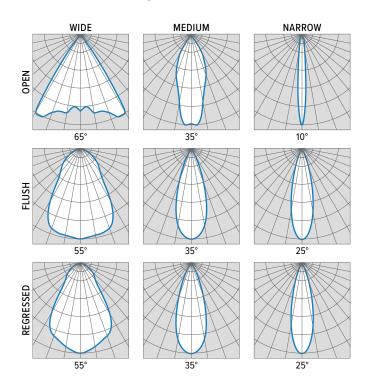- Use multiplier tables to calculate additional options.

PHOTOMETRY

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

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

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	WIDE	MEDIUM	NARROW
OPEN	65°	35°	10°
FLUSH	55°	35°	25°
REGRESSED	55°	35°	25°

TRIMLOCK DETAILS

TWIST   **PULL**   **RELEASE**

TRIM TYPE DETAILS

OPEN — ø6″

FLUSH — ø5-5/8″

REGRESSED — ø5-13/16″   1-1/2″

HOUSING FINISH DETAILS

WHITE   BLACK   BRONZE   NICKEL   SILVER   ALUM
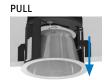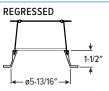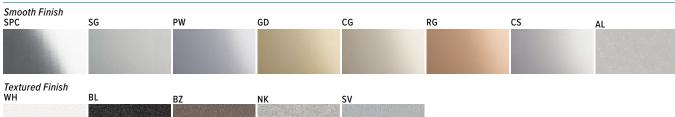
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1″ square.

REFLECTOR FINISH DETAILS

Smooth Finish
SPC   SG   PW   GD   CG   RG   CS   AL

Textured Finish
WH   BL   BZ   NK   SV

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EMERGENCY BATTERY OPTIONS

Max remote distance 50', including suspension length. Specify CEC in the option code when California Energy Commission regulations are required.

CATALOG NUMBER	DESCRIPTION
EM/7WRM	Remote mount 7-watt emergency battery
EM/7WRM/RTS	Remote mount 7-watt emergency battery with regressed test switch [1]
EM/10WRM	Remote mount 10-watt emergency battery
EM/10WRM/RTS	Remote mount 10-watt emergency battery with regressed test switch [1]
EM/12WRM	Remote mount 12-watt emergency battery [2]
EM/12WRM/RTS	Remote mount 12-watt emergency battery with regressed test switch [1] [2]

[1] For use in grid ceiling installations only.   [2] Not available when CEC regulations are required.

RDB OPTION DETAILS

Hex box, flex, & low-voltage conductors (by others)

To test switch

Remote box

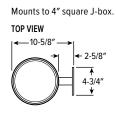### TEST SWITCH DETAILS

Standard

Regressed

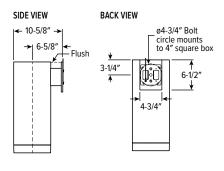## MOUNTING DETAILS

PENDANT MOUNT (PM__)

Swivel pendant mount fixtures are provided with:
- 45° Swivel canopy
- 3/8" IPS Threaded stem
- Specify length of stem, 6" minimum, 24" default length

WALL MOUNT (WM)

Mounts to 4" square J-box.

TOP VIEW
10-5/8"
2-5/8"
4-3/4"

SIDE VIEW
10-5/8"
6-5/8"
Flush

BACK VIEW
ø4-3/4" Bolt circle mounts to 4" square box
3-1/4"
6-1/2"
4-3/4"

SURFACE MOUNT (SM)

TwistLock™

Simple lift-and-twist mounting secures fixture to J-box.

CABLE MOUNT (CM__)

Cable mount fixtures are provided with:
- Adjustable length aircraft cable, must specify length in 24", 48", 96", or 144" inches.
- 18-gauge cord in choice of 9 colors, 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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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

Mobile Apps

Remote Management & Monitoring

Wall Stations

Remote Access Bridge

Ceiling Sensors

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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

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. DMX driver installed in remote box, must specify RDB Option. Lutron Athena installed in remote box when specified with SM Mounting Type, must specify RDB Option. 347V may require stepdown transformer, see product builder at hew.com/product-builder.

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

RDB OPTION DETAILS

Hex box, flex, & low-voltage conductors (by others)

Remote box