4CS LED
4" Cylinder – Square

Williams

12-13/16"

2-11/16"
4-1/4"

CATALOG #: _____

TYPE: _____

PROJECT: _____

BUY AMERICAN ACT COMPLIANT

ORDERING EXAMPLE: 4CS - L20/835 - OPTIONS - WHT - CONTROL/DIM - UNV - LW - WH - TRIM OPTIONS - CM

HOUSING ———— | ——— TRIM ——— | MOUNT.

HOUSING

SERIES	LUMENS [1]	CRI	CCT	OPTIONS	HOUSING FINISH [2]	CONTROL	DRIVER	VOLTAGE
4CS	L5 500lm	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
	L7 700lm	9 90 [3]	30 3000K		BLK Textured black	– None	DIM Dimming driver, 0-10V	347 347V [8]
	L9 900lm		35 3500K	RDB Remote mount control/driver box, painted black [4]	BRZ Textured bronze	AVI-LVFA Avi-on wireless fixture control [5]	DIM1 1% Dimming driver, 0-10V	
	L12 1,200lm		40 4000K		NKL Textured nickel			
	L15 1,500lm		50 5000K		SLV Textured silver	AWNR Lutron Athena wireless node integral fixture control, RF only [6]	DA Driver with 12V auxiliary power, without external dimming wires [7]	
	L20 2,000lm				WHT Textured white			
	L25 2,500lm							

TRIM

TRIM TYPE	DISTRIBUTION [9]	REFLECTOR FINISH [10]		TRIM OPTIONS
L Flush lens	W 50° Wide	**Open Trim Types**	**Lens Trim Types**	AD Diffuse acrylic lens [13]
O Open reflector	M 30° Medium	CS Clear semi-specular anodize	CS Clear semi-specular powder coat	PD Diffuse 1/8" polycarbonate lens [14]
R Regressed lens	N 20° Narrow [11]	SG Satin-glow anodize	WH White texture powder coat	
	S 14° Narrow spot [12]	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	

MOUNTING

MOUNTING TYPE [15]

CM__ Adjustable aircraft dual 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 L trim type, W distribution and WH finish, 3500K/80CRI. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA
2 See page 3 for HOUSING FINISH DETAILS.
3 Extended lead times may apply. Consult factory for availability.
4 Painted white available, specify RDB/WHT.
5 DA Driver. See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
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 Beam angle based on L Trim Type and WH Reflector Finish. Trim Type affects beam angle. See page 2 for FIXTURE PERFORMANCE DATA.
10 See page 3 for REFLECTOR FINISH DETAILS.

11 Not available with L25 lumen package.
12 Not available with L20 or L25 lumen packages, or 950 CRI/CCT.
13 Not available with O trim type. W distribution only.
14 Not available with O trim type. W distribution only.
15 See page 4 for MOUNTING DETAILS.
16 Canopy painted white unless specified otherwise. Must specify cord. See page 4 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 4 for CORD OPTIONS.

H.E. Williams, Inc. • Carthage, Missouri • www.hew.com • 417-358-4065 • Designed and Manufactured in the USA
Information contained herein is subject to change without notice.   REV.03/18/24.LA

Cylinders
Page 1 of 5

4CS LED
4" Cylinder – Square

FEATURES

TwistLock™

- Slim profile for unobtrusive illumination
- Parallel the performance and style of the Williams downlight collection
- Precision illumination with 14° narrow spot to 50° wide optics
- 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
- 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.
- OPEN REFLECTOR – Low-iridescent anodized aluminum with top diffuser. 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 = 49,000 hours. Estimated L70 = 179,000 hours.
- MOUNTING – Surface, cable, pendant, power cord or wall mount. Indoor applications only. Max weight 5-5/8 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.
  - 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	FLUSH LENS TRIM TYPE			OPEN REFLECTOR TRIM TYPE			REGRESSED LENS TRIM TYPE		
		DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L5	W	526	6.6	80	381	7.2	53	530	6.5	82
L5	M	528	6.6	80	361	7.2	50	520	6.6	79
L5	N	511	6.5	79	372	7.2	52	511	6.5	79
L5	S	607	7.8	78	435	7.8	56	609	7.8	78
L7	W	739	8.5	87	535	9.3	58	745	8.5	88
L7	M	742	8.5	87	507	9.3	55	731	8.5	86
L7	N	718	8.5	84	523	9.3	56	718	8.5	84
L7	S	848	11.2	76	607	11.2	54	850	11.2	76
L9	W	947	10.5	90	686	11.4	60	954	10.5	91
L9	M	950	10.5	90	650	11.4	57	936	10.5	89
L9	N	920	10.5	88	670	11.4	59	920	10.5	88
L9	S	1085	14.1	77	777	14.1	55	1089	14.1	77
L12	W	1292	14.0	92	936	15.3	61	1302	14.0	93
L12	M	1296	14.0	93	886	15.3	58	1277	14.0	91
L12	N	1254	14.0	90	914	15.3	60	1255	14.0	90
L12	S	1440	20.4	71	1031	20.4	51	1445	20.4	71
L15	W	1602	17.3	93	1160	17.3	67	1614	17.3	93
L15	M	1607	17.3	93	1099	17.3	64	1583	17.3	92
L15	N	1555	17.3	90	1133	17.3	65	1556	17.3	90
L15	S	1783	26.7	67	1276	26.7	48	1789	26.6	67
L20	W	2104	23.4	90	1523	25.6	59	2119	23.4	91
L20	M	2110	23.4	90	1443	25.6	56	2079	23.4	89
L20	N	2042	23.4	87	1488	25.6	58	2043	23.4	87
L20	S	–	–	–	–	–	–	–	–	–
L25	W	2528	29.5	86	2155	32.2	67	2547	29.4	87
L25	M	2536	29.5	86	1734	32.2	54	2498	29.5	85
L25	N	–	–	–	–	–	–	–	–	–
L25	S	–	–	–	–	–	–	–	–	–

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
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
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.

BEAM ANGLE

	TRIM TYPE		
	FLUSH	OPEN	REGRESSED
W	50°	50°	55°
M	30°	47°	30°
N	20°	47°	20°
S	14°	43°	14°

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is based on 120V input.
- Results based on 3500K/80CRI and WH (L and R Trim Types) or CS (O Trim Type) Reflector Finish. Actual lumens 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

4CS-L15/835-DIM-UNV-LW-WH Total Luminaire Output: 1602 lumens; 17.3 Watts | Efficacy: 92.5 lm/W | 80 CRI; 3500K CCT
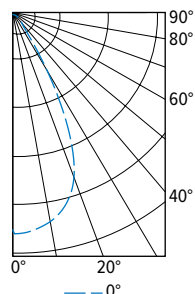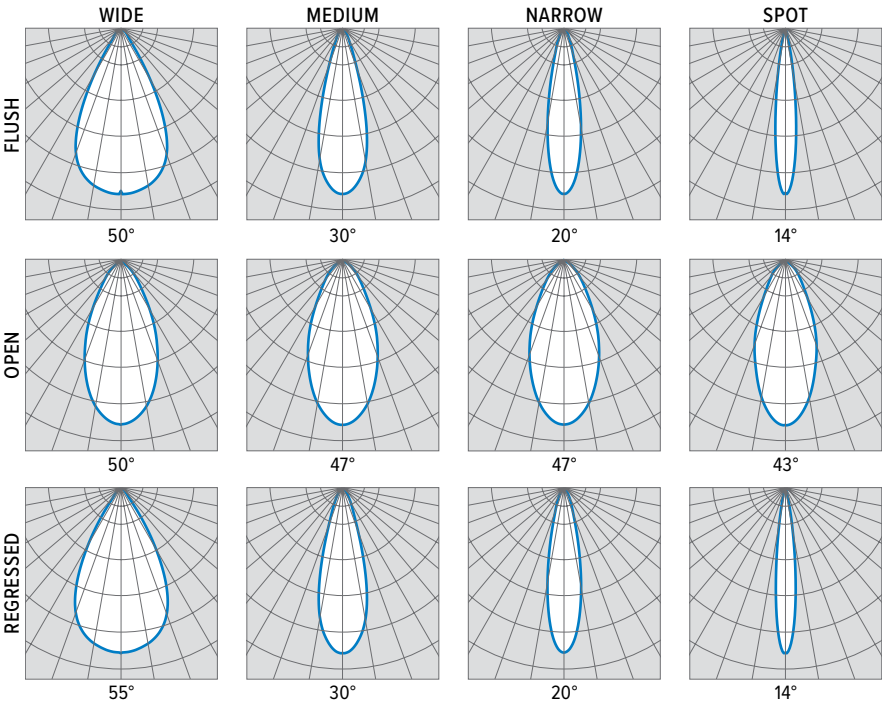

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	1852	
5	1869	129
15	1690	259
25	1065	225
35	269	83
45	109	43
55	72	32
65	46	21
75	22	9
85	5	1
90	0	

ZONE	LUMENS	% FIXTURE
0 - 40	1361	85
0 - 60	1526	95
0 - 90	1601	100
0-180	1602	100

LUMEN SUMMARY

H.E. Williams, Inc. • Carthage, Missouri • www.hew.com • 417-358-4065 • Designed and Manufactured in the USA
Information contained herein is subject to change without notice. REV.03/18/24.LA

Cylinders
Page 2 of 5

4CS LED
4" Cylinder – Square

	WIDE	MEDIUM	NARROW	SPOT
FLUSH	50°	30°	20°	14°
OPEN	50°	47°	47°	43°
REGRESSED	55°	30°	20°	14°

TRIM TYPE DETAILS

FLUSH — 2-15/16″

OPEN — 2-11/16″

REGRESSED — 2-15/16″, 3/4″

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

H.E. Williams, Inc. ▪ Carthage, Missouri ▪ www.hew.com ▪ 417-358-4065 ▪ Designed and Manufactured in the USA
Information contained herein is subject to change without notice.   REV.03/18/24.LA
Cylinders
Page 3 of 5

4CS LED
## 4″ Cylinder – Square

EMERGENCY BATTERY OPTIONS

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

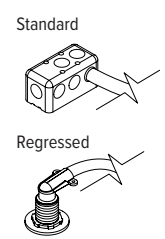| CATALOG NUMBER	DESCRIPTION
EM/7WRM	Remote mount 7-watt emergency battery
EM/7WRM/RTS	Remote mount 7-watt emergency battery with regressed test switch [1]
EM/10WRM	Remote mount 10-watt emergency battery
EM/10WRM/RTS	Remote mount 10-watt emergency battery with regressed test switch [1]
EM/12WRM	Remote 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
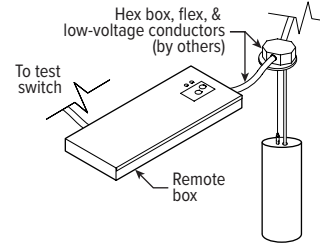
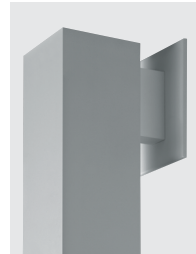### TEST SWITCH DETAILS

Standard

Regressed

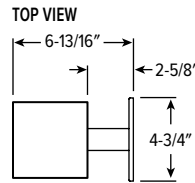## MOUNTING DETAILS

PENDANT MOUNT (PM__)

Swivel pendant mount fixtures are provided with:
- 45° Swivel canopy
- 3/8″ IPS Threaded stem
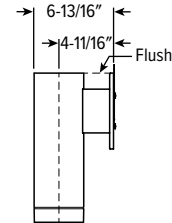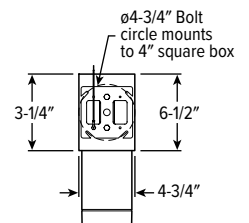- Specify length of stem, 6″ minimum, 24″ default length
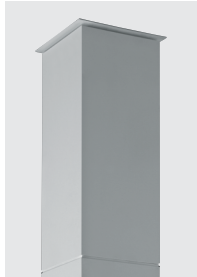
WALL MOUNT (WM)

Mounts to 4″ square J-box

TOP VIEW
6-13/16″
2-5/8″
4-3/4″

SIDE VIEW
6-13/16″
4-11/16″
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.

Provided with surface mount adaptor with pigtail

CABLE MOUNT (CM__)

Dual 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

POWER CORD MOUNT (PC)

Power cord mount fixtures are provided with:
- 18-gauge cord in choice of 9 colors, 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

H.E. Williams, Inc. • Carthage, Missouri • www.hew.com • 417-358-4065 • Designed and Manufactured in the USA
Information contained herein is subject to change without notice.
REV.03/18/24.LA
Cylinders
Page 4 of 5

4CS LED
4″ Cylinder – Square

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.
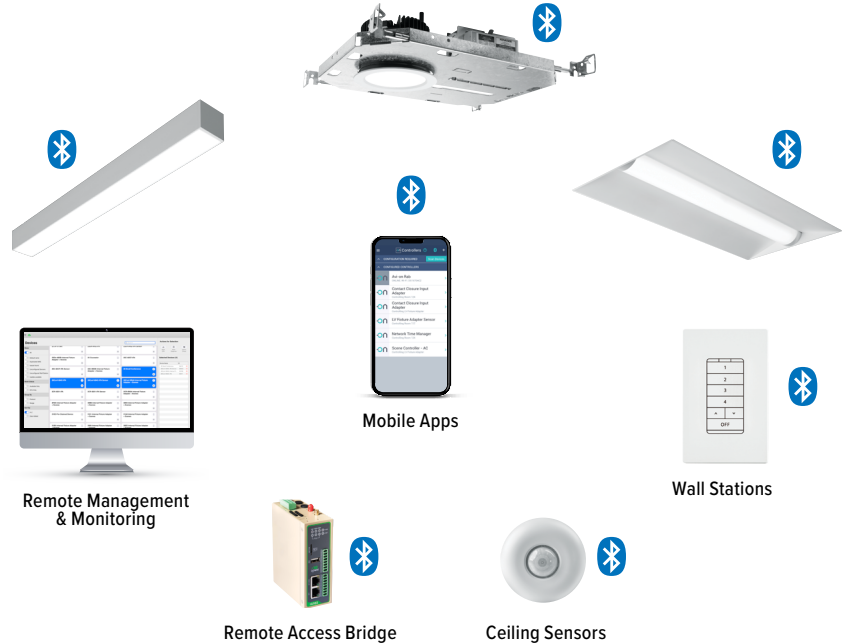

Commissioning Mobile App

Zone Scanner Web App

Commissioning Pro App

SYSTEM COMPONENTS

Mobile Apps

Remote Management & Monitoring

Wall Stations

Remote Access Bridge

Ceiling Sensors

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Avi-on is under license. Other trademarks and trade names are those of their respective owners.

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

DMX, DALI, and LDE1 drivers 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

H.E. Williams, Inc. ▪ Carthage, Missouri ▪ www.hew.com ▪ 417-358-4065 ▪ Designed and Manufactured in the USA
Information contained herein is subject to change without notice.
REV.03/18/24.LA
Cylinders
Page 5 of 5