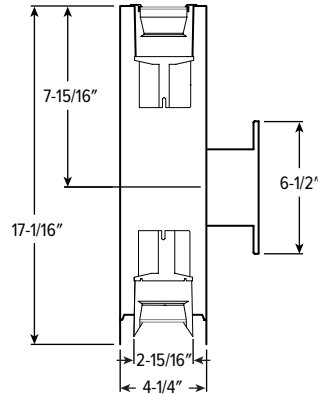


# 4CSDI<sup>LED</sup>

## 4" Direct/Indirect Cylinder – Square



CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_



ORDERING EXAMPLE: 4CSDI - L12/835U/L12/835D - OPTIONS - WHT - CONTROL/DIM - UNV - LW/LM - WH - TRIM OPTIONS - WM

HOUSING TRIM MOUNT.

### HOUSING

SERIES	LUMEN PACKAGE (Example: L12/835U/L9/835D)	OPTIONS	HOUSING FINISH <sup>[1]</sup>	CONTROL	DRIVER	VOLTAGE
4CSDI	Specify lumen packages: <b>U</b> for Up and <b>D</b> for Down <b>LUMENS</b> <sup>[8]</sup> <b>CRI</b> <b>CCT</b> <b>U OR D</b>	See page 3 for <b>EMERGENCY BATTERY OPTIONS</b> . <b>RDB</b> Remote mount control/driver box, painted black <sup>[2]</sup>	<b>ALUM</b> Silver sparkle aluminum <b>BLK</b> Textured black <b>BRZ</b> Textured bronze <b>NKL</b> Textured nickel <b>SLV</b> Textured silver <b>WHT</b> Textured white	See page 5 for <b>ADDITIONAL CONTROL/ DRIVER OPTIONS</b> . – None <b>AVI-LVFA</b> Avi-on wireless fixture control <sup>[3]</sup> <b>AWNDR</b> Lutron Athena wireless node fixture control, RF only <sup>[4]</sup>	See page 5 for <b>ADDITIONAL CONTROL/ DRIVER OPTIONS</b> . <b>DIM</b> Entire fixture switches and dims together <sup>[5]</sup> <b>DIM1</b> 1% Dimming driver, 0-10V <b>DA</b> Driver with 12V auxiliary power, without external dimming wires <sup>[6]</sup>	<b>UNV</b> 120-277V <b>347</b> 347V <sup>[7]</sup>
	<b>L9</b> 900lm <b>8</b> 80 <b>27</b> 2700K <b>U</b> Uplight <b>L12</b> 1,200lm <b>9</b> 90 <sup>[9]</sup> <b>30</b> 3000K <b>D</b> Downlight <b>L15</b> 1,500lm <b>35</b> 3500K <b>L20</b> 2,000lm <b>40</b> 4000K <b>50</b> 5000K					

### TRIM

TRIM TYPE AND DISTRIBUTION <sup>[10]</sup>	REFLECTOR FINISH <sup>[11]</sup>	TRIM OPTIONS
(Example Uplight/Downlight: LW/LM)		
<b>TRIM TYPE</b> <b>DISTRIBUTION</b>	<b>Downlight Open Trim Types</b>	<b>Downlight Lens Trim Types</b>
<b>Uplight</b> <b>Uplight</b>	<b>CS</b> Clear semi-specular anodize	<b>CS</b> Clear semi-specular powder coat
<b>L</b> Flush lens <sup>[14]</sup> <b>W</b> 50° Wide	<b>SG</b> Satin-glow anodize	<b>WH</b> White texture powder coat
<b>M</b> 30° Medium	<b>GD</b> Gold anodize	<b>BL</b> Black texture powder coat
<b>Downlight</b> <b>Downlight</b>	<b>CG</b> Champagne gold anodize	<b>BZ</b> Bronze texture powder coat
<b>O</b> Open reflector <b>W</b> 50° Wide	<b>PW</b> Pewter anodize	<b>NK</b> Nickel texture powder coat
<b>L</b> Flush lens <b>M</b> 30° Medium	<b>SPC</b> Clear specular anodize	<b>SV</b> Silver texture powder coat
<b>R</b> Regressed lens <b>N</b> 20° Narrow	<b>RG</b> Rose gold anodize	<b>AL</b> Silver sparkle aluminum
<b>S</b> 14° Narrow spot <sup>[15]</sup>		

### MOUNTING

#### MOUNTING TYPE <sup>[16]</sup>

**WM** Wall mount

### NOTES

- See page 4 for HOUSING FINISH DETAILS.
- Painted white available, specify RDB/WHT.
- DA Driver only. Installed in remote box, must specify RDB Option. See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- DA Driver only. Installed in remote box, must specify RDB Option.
- Requires 5 conductor cord.
- Avi-on and Lutron Athena Controls only.
- Not available with EM batteries or DA drivers.
- Lumen output based on L Trim Type, W Distribution and WH Reflector Finish, 80 CRI/3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.

- Extended lead times may apply. Consult factory for availability.
- Beam angle based on L Trim Type and WH Reflector Finish. Trim Type affects beam angle.
- See page 2 for FIXTURE PERFORMANCE DATA.
- Specified for Downlight Trim Type only. See page 4 for REFLECTOR FINISH DETAILS.
- Not available with O trim type. Downlight only. W distribution only.
- Not available with O trim type. Downlight only. W distribution only.
- Trim finish matches Housing Finish. Other colors available, consult factory.
- Not available with L20 lumen package or 950 CRI/CCT.
- See page 4 for MOUNTING DETAILS.



# 4CSDI<sup>LED</sup> 4" Direct/Indirect Cylinder – Square

## FEATURES

- Slim profile for unobtrusive illumination
- Smoothly accent walls and eliminate dark ceilings with direct and indirect lighting
- Parallel the performance and style of the Williams downlight collection
- Superior optical control with beams as narrow as 14° and field changeable optics as wide as 50°
- Complement the architectural elements of any space with a multitude of housing and trim finishes
- Precision-engineered extruded aluminum housing and die-cast aluminum trim face for clean aesthetic
- Open, flush, and regressed lens trim options
- Reflectors create smooth, low-glare radiance
- 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. Clear semi-specular finish standard.
- LENSED TRIM** – Die-cast aluminum frame with micro-prismatic lens (acrylic downlight, tempered glass uplight).
- 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** – Wall mount. Indoor applications only. Max weight 6-1/4 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](http://hew.com/baa).
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

## FIXTURE PERFORMANCE DATA

	DIST.	DOWNLIGHT								UPLIGHT		
		WATTAGE	FLUSH LENS		OPEN REFLECTOR		REGRESSED LENS			WATTAGE	FLUSH LENS	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)			DELIVERED LUMENS	EFFICACY (lm/W)
L9	W	10.5	947	90	686	65	954	91	10.4	1078	104	
	M	10.5	950	90	650	62	936	89	10.4	1081	104	
	N	10.5	920	88	670	64	920	88	–	–	–	
	S	14.1	1085	77	777	55	1089	77	–	–	–	
L12	W	14.0	1292	92	936	67	1302	93	13.9	1471	106	
	M	14.0	1296	93	886	63	1277	91	13.9	1475	106	
	N	14.0	1254	90	914	65	1255	90	–	–	–	
	S	20.4	1440	71	1031	51	1445	71	–	–	–	
L15	W	17.3	1602	93	1160	67	1614	93	17.2	1824	106	
	M	17.3	1607	93	1099	64	1583	92	17.2	1829	106	
	N	17.3	1555	90	1133	65	1556	90	–	–	–	
	S	26.7	1783	67	1276	48	1789	67	–	–	–	
L20	W	23.6	2104	89	1757	74	2119	90	23.4	2395	102	
	M	23.6	2110	89	1665	71	2079	88	23.4	2402	103	
	N	23.6	2042	87	1717	73	2043	87	–	–	–	
	S	–	–	–	–	–	–	–	–	–	–	

## 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	CCT	CONVERSION FACTOR
	2700K	0.76
	3000K	0.79
	3500K	0.82
	4000K	0.84
	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
	SG <sup>(1)</sup>	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
	RG	0.88

R TRIM	CATALOG NUMBER	CONVERSION FACTOR
	WH	1.00
	CS <sup>(1)</sup>	0.98
	BL <sup>(1)</sup>	0.79
	BZ <sup>(1)</sup>	0.76
	NK <sup>(1)</sup>	0.81
	SV <sup>(1)</sup>	0.81
	AL <sup>(1)</sup>	0.86

<sup>1</sup> Distribution will also be affected, consult factory.

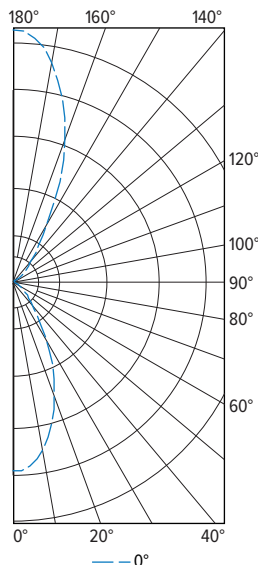
## BEAM ANGLE

	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 based on O trim type, W distribution and CS reflector finish, 80 CRI/3500K CCT, average wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- Wattage is for downlight or uplight components. Add wattages together for selected lumen packages to find total fixture wattage.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

## PHOTOMETRY

4CSDI-L12/835U/L12/835D-WHT-DIM1-UNV-OW/OW-CS-WM Total Luminaire Output: 2051 lumens; 28.2 Watts | Efficacy: 73 lm/W | 80 CRI; 3500K CCT



	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
CANDLEPOWER DISTRIBUTION	0	1179	
	5	1152	106
	15	918	254
	25	572	261
	35	260	170
	45	120	95
	55	43	44
	65	1	6
	75	0	0
	85	0	0
	90	0	
	95	1	2
	105	1	3
	115	3	8
	125	40	45
	135	130	100
	145	275	184
	155	686	308
	165	1178	322
	175	1522	140
	180	1563	

	ZONE	LUMENS	% FIXTURE
LUMEN SUMMARY	0 - 30	621	30
	0 - 40	792	39
	0 - 60	931	45
	0 - 90	938	46
	90 - 120	13	1
	90 - 150	342	17
	90 - 180	1113	54
	0 - 180	2051	100



H.E. Williams, Inc.

Carthage, Missouri

[www.hew.com](http://www.hew.com)

417-358-4065

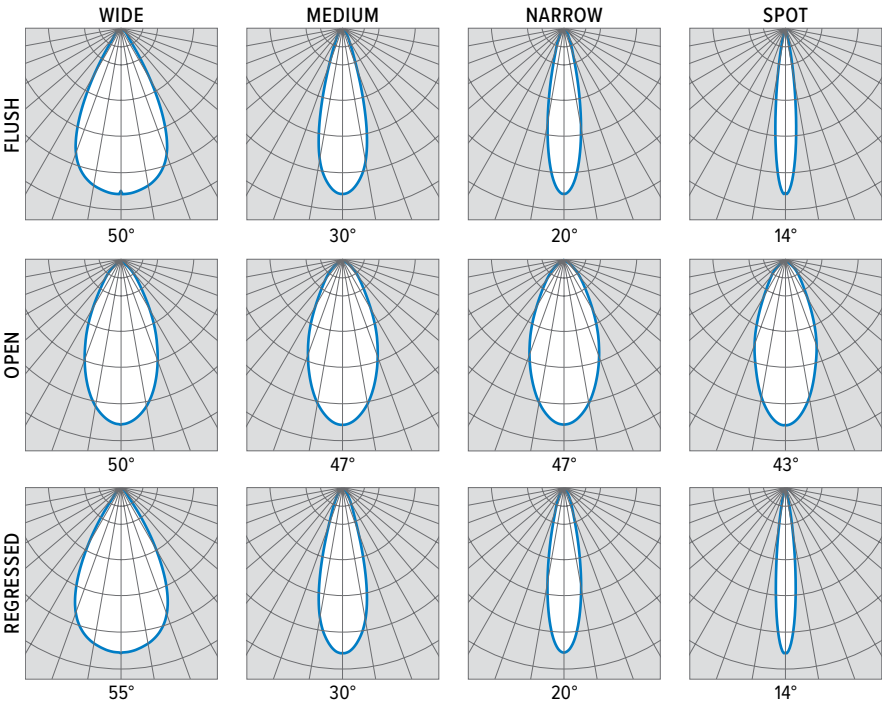
Designed and Manufactured in the USA

Information contained herein is subject to change without notice.

REV.01/26/24.JL

Cylinders  
Page 2 of 5

# 4CSDI<sup>LED</sup> 4" Direct/Indirect Cylinder – Square



## EMERGENCY BATTERY OPTIONS

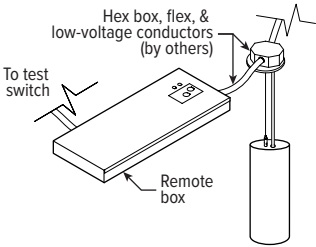
Max remote distance 50', including suspension length. Emergency light defaults to downlight output. Specify CEC in the option code when California Energy Commission regulations are required.

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

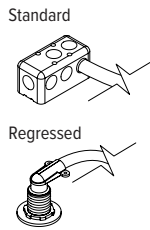
<sup>1</sup> For use in grid ceiling installations only.

<sup>2</sup> Not available when CEC regulations are required.

## RDB OPTION DETAILS



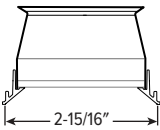
## TEST SWITCH DETAILS



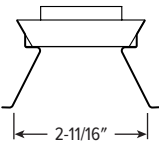
## TRIM TYPE DETAILS

### DOWNLIGHT

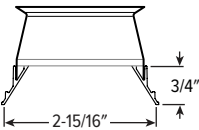
#### FLUSH



#### OPEN

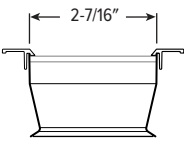


#### REGRESSED



### UPLIGHT

#### FLUSH



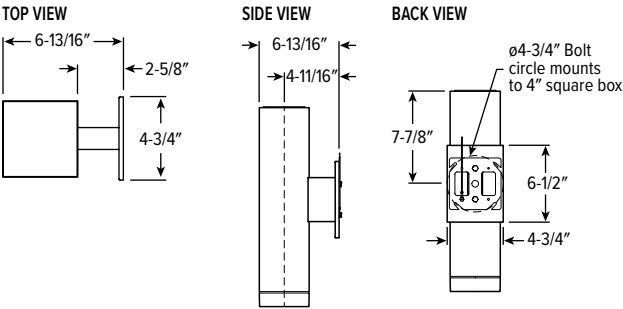
4CSDI

LED

4" Direct/Indirect Cylinder – Square

MOUNTING DETAILS


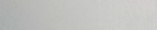

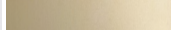
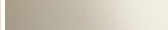
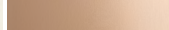
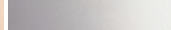
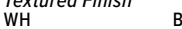




Mounts to 4" square J-box



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			
							

SEE NEXT PAGE FOR CONTROL DETAILS



# 4CSDI<sup>LED</sup> 4" Direct/Indirect 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

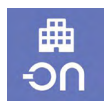
- Virtually unlimited network size
- Spans small offices to large warehouses
- Flexible control strategies

#### Secure

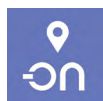
- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

### 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

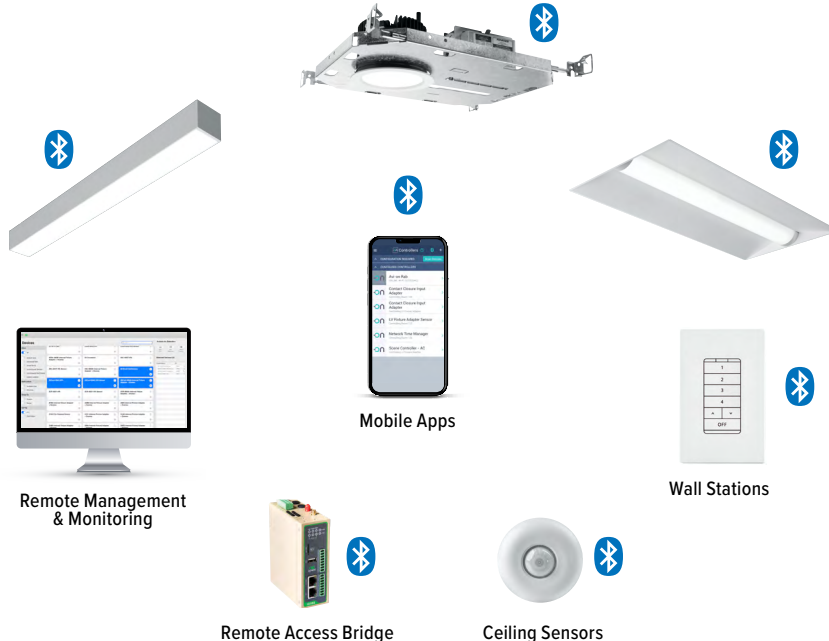


Zone Scanner  
Web App



Commissioning  
Pro App

### SYSTEM COMPONENTS



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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](http://hew.com/avi-on)

### ADDITIONAL CONTROL/DRIVER OPTIONS

Lumen restrictions apply: Avi-on, Lutron Athena controls and DMX, DALI, LDE1 drivers installed in remote box, must specify RDB Option.

CATALOG NUMBER	DESCRIPTION
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power. Up and down switch together.
AVI-LVFA/DA-U/D	Avi-on wireless fixture control for use with driver with 12V auxiliary power. Up and down switch separately.
AWN/DA	Lutron Athena wireless node fixture control, RF only, for use with driver with 12V auxiliary power. Up and down switch together.
AWN/DA-U/D	Lutron Athena wireless node fixture control, RF only, for use with driver with 12V auxiliary power. Up and down switch separately.
DIM	Dimming driver prewired for 0-10V low voltage applications; entire fixture switches and dims together
DIMU/DIMD	Dimming driver prewired for 0-10V low voltage applications; up and down portions switch and dim separately
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM1U/DIM1D	1% dimming driver prewired for 0-10V low voltage applications; up and down portions switch separately
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM LINEU/DIM LINED	Line voltage switching and line voltage dimming; up and down portions switch separately
DMX	0.1% dimming driver for DMX controls
DMX/DMX	0.1% dimming driver for DMX controls; up and down portions switch separately
DALI	DALI dimming driver
DALI/DALI	DALI dimming driver; up and down portions switch separately
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver
LDE1/LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver; up and down portions switch separately

#### RDB OPTION DETAILS

