4CSDI LED
4″ Direct/Indirect Cylinder – Square

Williams

17″

2-15/16″
4-1/4″

CATALOG #: _____

TYPE: _____

PROJECT: _____

BUY AMERICAN ACT COMPLIANT

Low UGR

ORDERING EXAMPLE: 4CSDI - 17 - L12/835U/L12/835D - OPTIONS - WHT - CONTROL/DIM - UNV - LW/LM - WH - TRIM OPTIONS - WM

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

HOUSING

SERIES	HEIGHT	LUMEN PACKAGE (Example: L12/835U/L9/835D)
4CSDI	17 17″	Specify lumen packages: **U** for Up and **D** for Down

LUMENS [4]

		CRI		CCT		U OR D	
L9	900lm	8	80	27	2700K	U	Uplight
L12	1,200lm	9	90	30	3000K	D	Downlight
L15	1,500lm			35	3500K		
L20	2,000lm			40	4000K		
				50	5000K		

OPTIONS

EM/10WRM/RTS Remote mount 10-watt emergency battery with regressed test switch [2]

RDB Remote mount control/driver box, galvanized steel [3]

HOUSING FINISH [1]

ALUM	Silver sparkle aluminum
BLK	Textured black
BRZ	Textured bronze
NKL	Textured nickel
SLV	Textured silver
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 fixture control, RF only [6]

DRIVER

See page 3 for ADDITIONAL CONTROL/DRIVER OPTIONS.

DIM	Entire fixture switches and dims together
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 AND DISTRIBUTION [9]

(Example Uplight/Downlight: **LW/LM**)

TRIM TYPE

Uplight
L Flush lens [13]

Downlight
O Open reflector
L Flush lens
R Regressed lens

DISTRIBUTION

Uplight
W 50° Wide
M 30° Medium

Downlight
W 50° Wide
M 30° Medium
N 20° Narrow
S 14° Narrow spot [14]

REFLECTOR FINISH [10]

Downlight 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

Downlight 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 [11]
PD	Diffuse 1/8″ polycarbonate lens [12]

MOUNTING

MOUNTING TYPE [15]

WM Wall mount

NOTES

1. See page 4 for HOUSING FINISH DETAILS.
2. Max remote distance 50′, including suspension length. Large remote box provided. EM light defaults to downlight output. Specify CEC in option code when California Energy Commission regulations are required. See page 3 for EMERGENCY BATTERY DETAILS.
3. Painted driver box available, specify RDB/BLK or RDB/WHT.
4. 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.
5. DA Driver only. Installed in remote box, must specify RDB Option. See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
6. DA Driver only. Installed in remote box, must specify RDB Option.
7. Avi-on and Lutron Athena Controls only.
8. Not available with EM batteries or DA 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. Specified for Downlight Trim Type only. See page 4 for REFLECTOR FINISH DETAILS.
11. Not available with O Trim Type. Downlight only. W Distribution only.
12. Not available with O Trim Type. Downlight only. W Distribution only.
13. Trim finish matches Housing Finish. Other colors available, consult factory.
14. Not available with L20 lumen package or 950 CRI/CCT.
15. See page 4 for FIXTURE DETAILS.

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Cylinders
Page 1 of 5

4CSDI LED
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
- Low UGR meets LEED and WELL requirements
- 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.
- OPEN REFLECTOR – Low-iridescent anodized aluminum with top diffuser. 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.
- WARRANTY – 5-year limited warranty, see hew.com/warranty.

FIXTURE PERFORMANCE DATA

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

COLOR TEMPERATURE	CCT	CONVERSION FACTOR
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

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

REFLECTOR FINISH	CATALOG NUMBER	CONVERSION FACTOR
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.

TRIM OPTIONS	CATALOG NUMBER	CONVERSION FACTOR
	AD	0.85
	PD	0.85

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 WH (L and R Trim Types) or CS (O Trim Type) Reflector Finish, W Distribution, 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-17-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
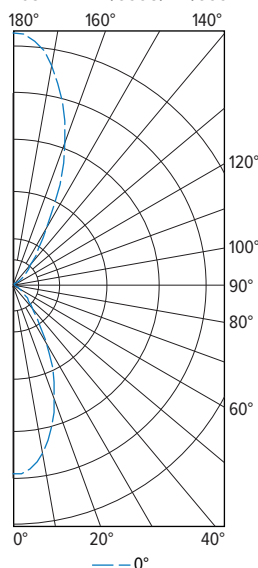
VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	1179	
5	1152	106
15	918	254
25	572	261
35	260	170
45	120	95
55	43	44
65	1	6
75	0	0
85	0	0
90	0	
95	1	2
105	1	3
115	3	8
125	40	45
135	130	100
145	275	184
155	686	308
165	1178	322
175	1522	140
180	1563	

LUMEN SUMMARY ZONE	LUMENS	% FIXTURE
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

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Cylinders
Page 2 of 5

4CSDI

LED
4″ Direct/Indirect Cylinder – Square

OPEN

50°	30°	20°	14°

FLUSH

50°	47°	47°	43°

REGRESSED

55°	30°	20°	14°
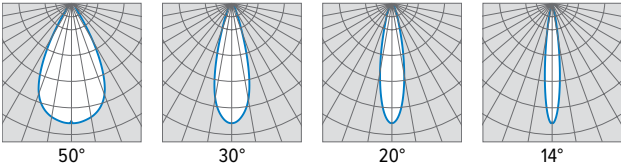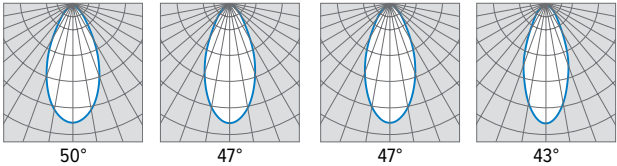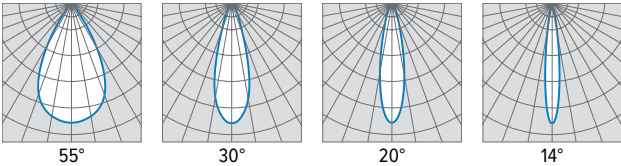
ADDITIONAL CONTROL/DRIVER OPTIONS

| CONTROL/DRIVER	DESCRIPTION	RDB DETAILS BY LUMEN STOP [1]				
		L9	L12	L15	L20	w/EM
DIM	Dimming driver prewired for 0-10V low voltage applications; entire fixture switches and dims together	O I S	O I S	O I S	O I S	R I L
DIMU/DIMD	Dimming driver prewired for 0-10V low voltage applications; up and down portions switch and dim separately	O I S	O I S	O I S	O I S	R I L
DIM1	1% dimming driver prewired for 0-10V low voltage applications	O I S	O I S	O I S	O I S	R I L
DIM1U/DIM1D	1% dimming driver prewired for 0-10V low voltage applications; up and down portions switch separately	O I S	O I S	O I S	O I S	R I L
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)	O I S	O I S	O I S	O I S	R I L
DIM LINEU/DIM LINED	Line voltage switching and line voltage dimming; up and down portions switch separately	O I S	O I S	O I S	O I S	R I L
DMX	0.1% dimming driver for DMX controls	R I L	R I L	R I L	R I L	R I L
DMX/DMX	0.1% dimming driver for DMX controls; up and down portions switch separately	R I L	R I L	R I L	R I L	R I L
DALI	DALI dimming driver	R I L	R I L	R I L	R I L	R I L
DALI/DALI	DALI dimming driver; up and down portions switch separately	R I L	R I L	R I L	R I L	R I L
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver	R I L	R I L	R I L	R I L	R I L
LDE1/LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver; up and down portions switch separately	R I L	R I L	R I L	R I L	R I L
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power. Up and down switch together.	R I L	R I L	R I L	R I L	R I L
AVI-LVFA/DA-U/D	Avi-on wireless fixture control for use with driver with 12V auxiliary power. Up and down switch separately.	R I L	R I L	R I L	R I L	R I L
AWNR/DA	Lutron Athena wireless node fixture control, RF only, for use with driver with 12V auxiliary power. Up and down switch together.	R I S	R I S	R I S	R I S	R I L
AWNR/DA-U/D	Lutron Athena wireless node fixture control, RF only, for use with driver with 12V auxiliary power. Up and down switch separately.	R I S	R I S	R I S	R I S	R I L

[1] If using two different stops for U/D, see highest lumen stop for RDB.

REMOTE MOUNT DETAILS

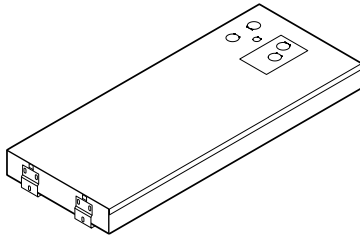Max remote distance is 50′ including suspension. Must be room-side accessible for maintenance.

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

Small remote box shown
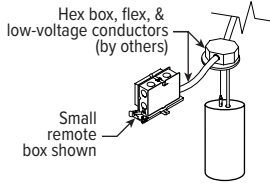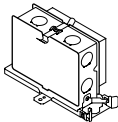
SMALL

Snap-in Junction Box

6-1/2″ x 3″ x 4-1/2″

LARGE

9″ x 24″ x 2″

REMOTE MOUNT KEY

R I S	RDB Required, Small Box
O I S	RDB Optional, Small Box
R I L	RDB Required, Large box

EMERGENCY BATTERY DETAILS

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

To test switch

Large remote box

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Cylinders
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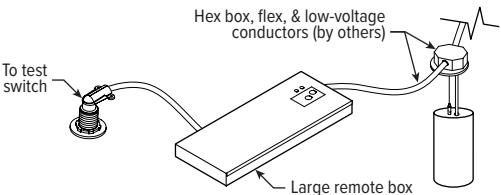
4CSDI
LED
4″ Direct/Indirect Cylinder – Square

TRIM TYPE DETAILS

DOWNLIGHT

FLUSH

2-15/16″

OPEN

2-11/16″

REGRESSED

3/4″

2-15/16″

UPLIGHT

FLUSH

2-7/16″
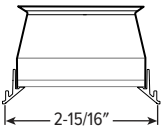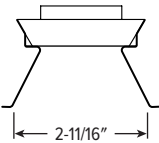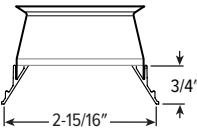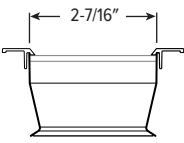
FIXTURE DETAILS

CROSS SECTION

17″

2-15/16″

4-1/4″

TOP VIEW

6-13/16″

2-5/8″

4-3/4″

SIDE VIEW

4-11/16″

7-15/16″

BACK VIEW

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

3-1/4″

6-1/2″
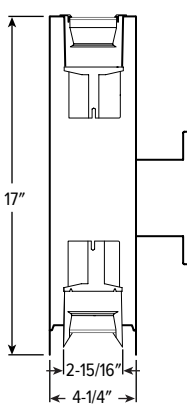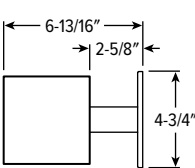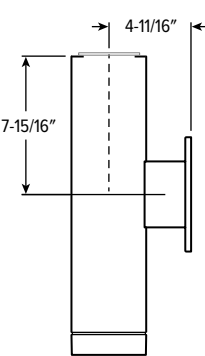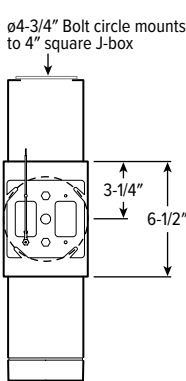
HOUSING FINISH DETAILS
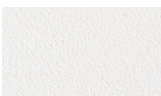
WHITE	BLACK	BRONZE	NICKEL	SILVER	ALUM

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

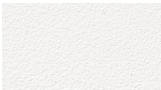| SPC	SG	PW	GD	CG	RG	CS	AL

Textured Finish

WH	BL	BZ	NK	SV

SEE NEXT PAGE FOR CONTROL DETAILS

4CSDI LED
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.
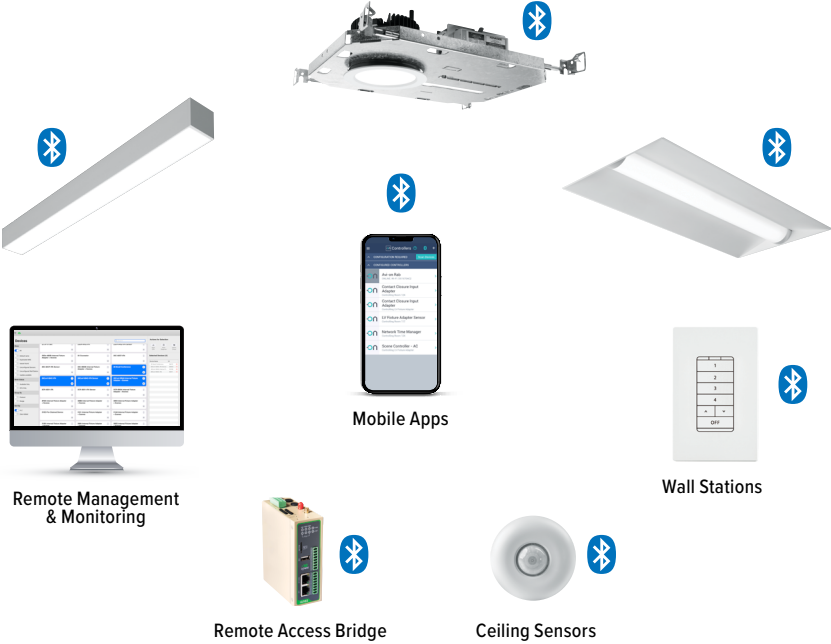
Commissioning Mobile App

Zone Scanner Web App

Commissioning Pro App

SYSTEM COMPONENTS

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