6CRDI LED
6.5″ Direct/Indirect Cylinder – Round

Williams

ø2-1/2″

22-7/8″

ø4-1/2″
ø6-1/2″

CM Shown

CATALOG #: _____

TYPE: _____

PROJECT: _____

BUY AMERICAN ACT COMPLIANT

ORDERING EXAMPLE: 6CRDI - TL - L20/835U/L20/835D - OPTIONS - WHT - CONTROL/DIM - UNV - LW/LM - CS - TRIM OPTIONS - CM

— HOUSING — — TRIM — MOUNT.

HOUSING

SERIES	LUMEN PACKAGE (Example: L30/835U/L15/835D)	OPTIONS	HOUSING FINISH [1]	CONTROL	DRIVER	VOLTAGE

SERIES

6CRDI - TL
TrimLock

LUMEN PACKAGE (Example: L30/835U/L15/835D)

Specify lumen packages: **U** for Up and **D** for Down

LUMENS [8]		**CRI**	**CCT**		**U OR D**
L10	1,000lm	8 80	27	2700K	U Uplight
L12	1,200lm [9]	9 90 [10]	30	3000K	D Downlight
L15	1,500lm		35	3500K	
L20	2,000lm		40	4000K	
L30	3,000lm		50	5000K	
L40	4,000lm				
L50	5,000lm				
L60	6,000lm				

OPTIONS

See page 5 for EMERGENCY BATTERY OPTIONS.

RDB Remote mount control/driver box, painted black [2]

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 6 for ADDITIONAL CONTROL/ DRIVER OPTIONS.

–	None
AVI-LVFA	Avi-on wireless fixture control [3]
AWNR	Lutron Athena wireless node fixture control, RF only [4]

DRIVER

See page 6 for ADDITIONAL CONTROL/ DRIVER OPTIONS.

DIM	Entire fixture switches and dims together [5]
DIM1	1% Dimming driver, 0-10V
DA	Driver with 12V auxiliary power, without external dimming wires [6]

VOLTAGE

UNV	120-277V
347	347V [7]

TRIM

TRIM TYPE AND DISTRIBUTION [11]

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

TRIM TYPE

Uplight
O Open reflector with clear glass shield [16]
L Flush lens [17]

Downlight
O Open reflector
L Flush lens
R Regressed lens

DISTRIBUTION

Uplight
W 65° Wide
M 45° Medium [18]
N 10° Narrow [19]

Downlight
W 65° Wide
M 45° Medium [20]
N 10° Narrow [21]

REFLECTOR FINISH [12]

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
WH	White texture powder coat
BL	Black texture powder coat

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 [13]
PD	Diffuse 1/8″ polycarbonate lens [14]
TD	Diffuse polycarbonate lens media at top of open reflector [15]

MOUNTING

MOUNTING TYPE [22]

CM__ Adjustable aircraft cable mount, 24″, 48″, 96″, or 144″ only, must specify. Example: 24″ cable = **CM24** [23]
WM Wall mount

NOTES
1. See page 4 for HOUSING FINISH DETAILS.
2. Painted white available, specify RDB/WHT.
3. DA Driver only. See page 6 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
4. DA Driver only. Installed in remote box, must specify RDB Option.
5. Requires 5 conductor cord.
6. Avi-on and Lutron Athena Controls only.
7. Not available with EM batteries or DA drivers.
8. Lumen output based on O Trim Type, W Distribution and CS Reflector Finish, 80 CRI/3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
9. Uplight CM Mounting Type only.
10. Extended lead times may apply. Consult factory for availability.
11. Beam angle based on O Trim Type, WM Mounting Type and CS Reflector Finish. Trim Type affects beam angle. See page 2 for FIXTURE PERFORMANCE DATA.
12. Specified for downlight Trim Type only. See page 4 for REFLECTOR FINISH DETAILS.
13. Not available with O Trim Type. Downlight only. W distribution only.
14. Not available with O Trim Type. Downlight only. W distribution only.
15. O Trim Type only. Downlight only. Not available with L60 lumen package.
16. CS Reflector Finish standard. Other colors available, consult factory.
17. Not available with WM Mounting Type. Trim finish matches Housing Finish. Other colors available, consult factory.
18. O Trim Type only when specified with WM Mounting Type.
19. O Trim Type only.
20. O Trim Type only when specified with L50 or L60 lumen packages.
21. O Trim Type only when specified with L50 or L60 lumen packages.
22. See page 5 for MOUNTING DETAILS.
23. L20 lumen package max for uplight. Canopy painted white unless specified otherwise. Must specify cord. See page 5 for CORD OPTIONS.

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Cylinders
Page 1 of 6

6CRDI LED
6.5" Direct/Indirect Cylinder – Round

FEATURES

TrimLock®

- 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 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
- Precision-engineered extruded aluminum housing and die-cast aluminum trim face for clean aesthetic
- 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.
- 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 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>55,000 hours. Estimated L70 = 200,000 hours.
- MOUNTING – Cable or wall mount. Indoor applications only. Max weight 14-1/2 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 OPEN REFLECTOR DELIVERED LUMENS	DOWNLIGHT OPEN REFLECTOR EFFICACY (lm/W)	DOWNLIGHT FLUSH LENS DELIVERED LUMENS	DOWNLIGHT FLUSH LENS EFFICACY (lm/W)	DOWNLIGHT REGRESSED LENS DELIVERED LUMENS	DOWNLIGHT REGRESSED LENS EFFICACY (lm/W)	WATTAGE	UPLIGHT WALL MOUNT OPEN REFLECTOR DELIVERED LUMENS	UPLIGHT WALL MOUNT OPEN REFLECTOR EFFICACY (lm/W)	WATTAGE	UPLIGHT CABLE MOUNT OPEN REFLECTOR DELIVERED LUMENS	UPLIGHT CABLE MOUNT OPEN REFLECTOR EFFICACY (lm/W)	UPLIGHT CABLE MOUNT FLUSH LENS DELIVERED LUMENS	UPLIGHT CABLE MOUNT FLUSH LENS EFFICACY (lm/W)
L10	W	9.0	1027	114	674	75	660	73	9.0	871	97	10.6	760	72	1019	96
L10	M	9.0	999	111	895	99	895	99	9.0	847	94	10.6	734	69	1004	95
L10	N	9.0	1000	111	914	102	882	98	9.0	848	94	10.6	653	62	–	–
L12	W	–	–	–	–	–	–	–	–	–	–	14.2	1036	73	1390	98
L12	M	–	–	–	–	–	–	–	–	–	–	14.2	1001	70	1369	96
L12	N	–	–	–	–	–	–	–	–	–	–	14.2	818	58	–	–
L15	W	13.9	1466	105	994	72	972	70	13.9	1243	89	17.5	1285	73	1723	98
L15	M	13.9	1471	106	1319	95	1319	95	13.9	1247	90	17.5	1241	71	1697	97
L15	N	13.9	1473	106	1347	97	1300	94	13.9	1249	90	17.5	1014	58	–	–
L20	W	19.8	2005	101	1352	68	1323	67	19.8	1700	86	23.2	1687	73	2263	98
L20	M	19.8	2002	101	1794	91	1795	91	19.8	1697	86	23.2	1630	70	2228	96
L20	N	19.8	2004	101	1833	93	1769	89	19.8	1699	86	23.3	1332	57	–	–
L30	W	27.8	2985	107	2022	73	1979	71	27.8	2531	91					
L30	M	27.8	2900	104	2683	97	2685	97	27.8	2459	88					
L30	N	27.8	2734	98	2741	99	2646	95	27.8	2318	83					
L40	W	38.0	3979	105	2695	71	2638	69	38.0	3373	89					
L40	M	38.0	3865	102	3577	94	3579	94	38.0	3277	86					
L40	N	38.0	3644	96	3654	96	3527	93	38.0	3089	81					
L50	W	45.2	5124	113	3364	74	3292	73	45.2	4344	96					
L50	M	45.2	4956	110	–	–	–	–	45.2	4202	93					
L50	N	45.2	4818	107	–	–	–	–	45.2	4085	90					
L60	W	46.2	5830	126	3827	83	3745	81	46.3	5220	113					
L60	M	46.2	5639	122	–	–	–	–	46.3	5049	109					
L60	N	46.2	5482	119	–	–	–	–	46.3	4908	106					

- 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.

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

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

TRIM OPTIONS

CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85
TD	0.67

[1] Distribution will also be affected, consult factory.

BEAM ANGLE

TRIM TYPE						
	DOWNLIGHT			WM UPLIGHT	CM UPLIGHT	
	OPEN	FLUSH	REGRESSED	OPEN	OPEN	FLUSH
W	65°	50°	50°	65°	70°	50°
M	45°	35°	30°	45°	40°	30°
N	10°	25°	25°	10°	15°	20°

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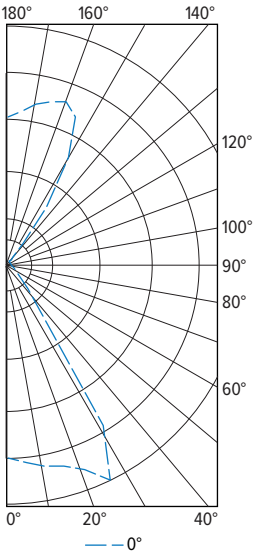
Cylinders
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6CRDI LED
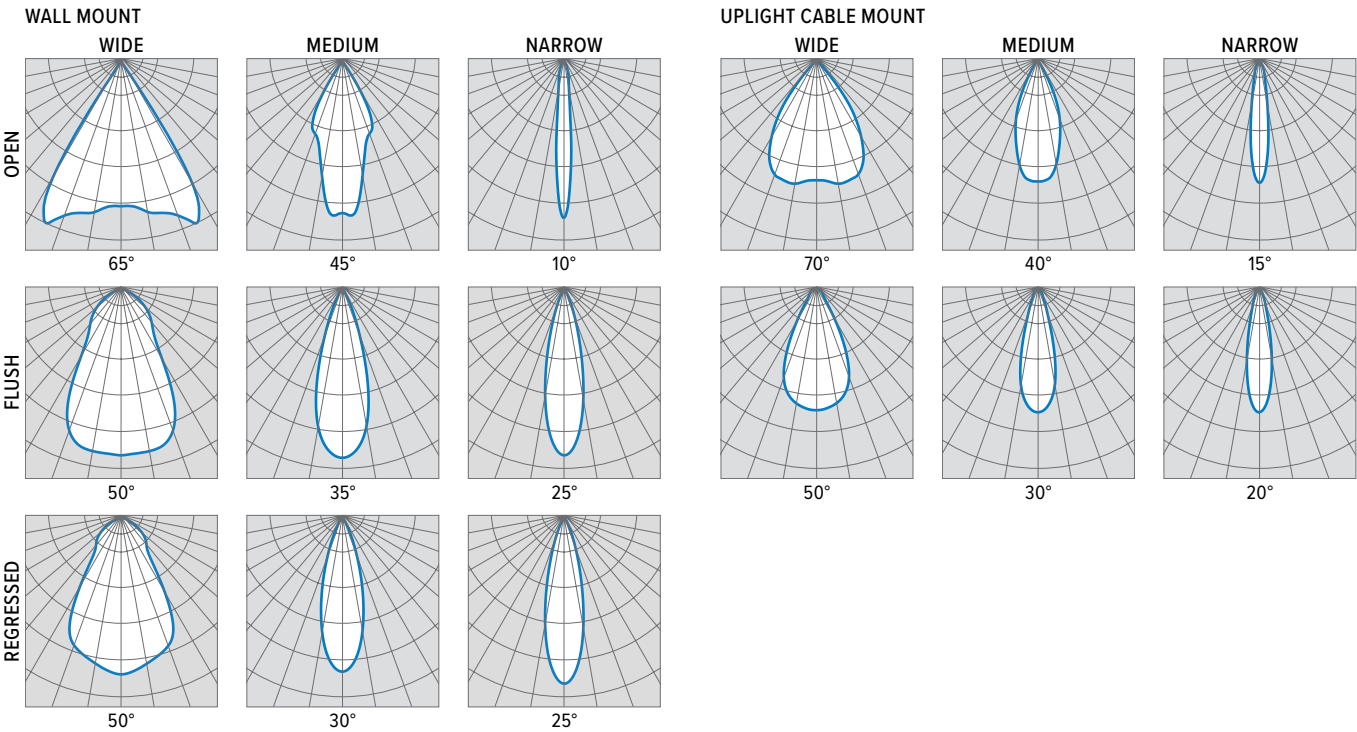## 6.5" Direct/Indirect Cylinder – Round

PHOTOMETRY

6CRDI-TL-L20/835U/L20/835D-DIM-UNV-OW/OW-CS-WM Total Luminaire Output: 3820 lumens; 38.8 Watts | Efficacy: 98 lm/W | 80 CRI; 3500K CCT
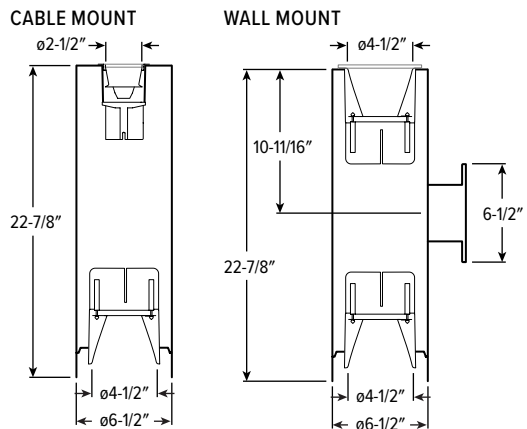

CANDLEPOWER DISTRIBUTION

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	1810	
5	1864	179
15	1960	560
25	2231	952
35	307	367
45	44	37
55	11	11
65	1	2
75	0	0
85	0	1
90	3	
95	4	4
105	5	6
115	9	9
125	18	18
135	58	68
145	608	391
155	1474	647
165	1528	433
175	1389	135
180	1333	

LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 30	1692	44
0 - 40	2059	54
0 - 60	2107	55
0 - 90	2110	55
90 - 120	19	1
90 - 150	496	13
90 - 180	1710	45
0 - 180	3820	100

WALL MOUNT

OPEN

WIDE	MEDIUM	NARROW
65°	45°	10°

FLUSH

WIDE	MEDIUM	NARROW
50°	35°	25°

REGRESSED

WIDE	MEDIUM	NARROW
50°	30°	25°

UPLIGHT CABLE MOUNT

WIDE	MEDIUM	NARROW
70°	40°	15°
50°	30°	20°

6CRDI
LED
6.5″ Direct/Indirect Cylinder – Round

CROSS SECTIONS

CABLE MOUNT

ø2-1/2″

22-7/8″

ø4-1/2″
ø6-1/2″

WALL MOUNT

ø4-1/2″

10-11/16″

6-1/2″

22-7/8″

ø4-1/2″
ø6-1/2″

TRIMLOCK DETAILS

TWIST

PULL

RELEASE

TRIM TYPE DETAILS

DOWNLIGHT

OPEN

ø4-1/2″

FLUSH

ø4-1/4″

REGRESSED

ø4-3/8″

1-1/4″

UPLIGHT WALL MOUNT

OPEN

ø4-1/2″

UPLIGHT CABLE MOUNT

OPEN

ø2-1/2″

FLUSH

ø2-7/16″

HOUSING FINISH DETAILS

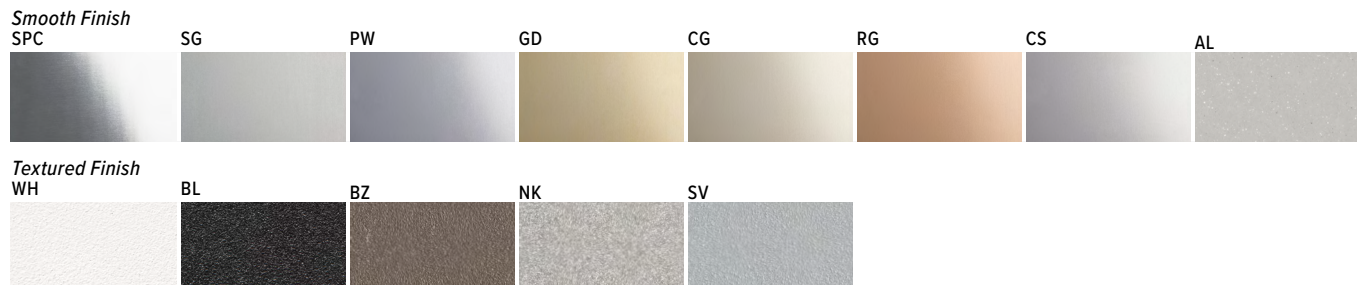| WHITE	BLACK	BRONZE	NICKEL	SILVER	ALUM
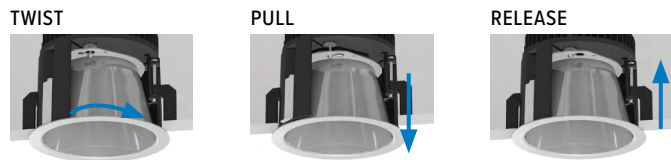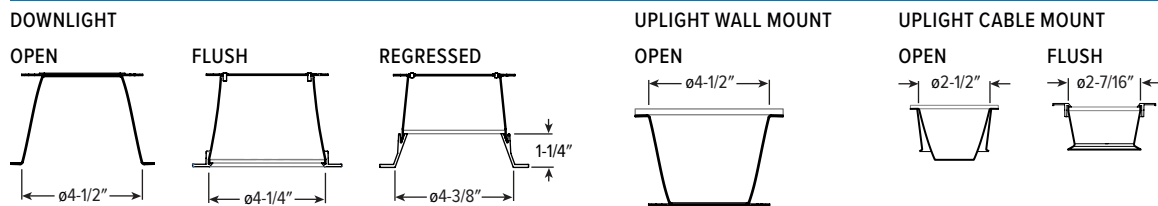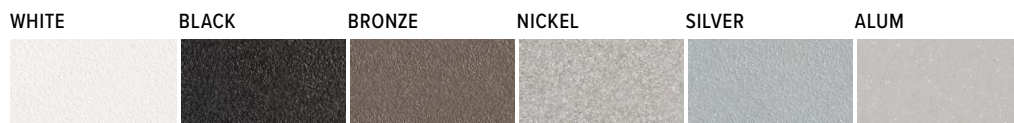
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1″ square.

REFLECTOR FINISH DETAILS

Smooth Finish

SPC	SG	PW	GD	CG	RG	CS	AL

Textured Finish

WH	BL	BZ	NK	SV

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6CRDI LED
## 6.5" Direct/Indirect Cylinder – Round

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.

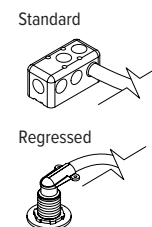| CATALOG NUMBER	DESCRIPTION
EM/7WRM	Remote mount 7-watt emergency battery
EM/7WRM/RTS	Remote mount 7-watt emergency battery with regressed test switch [1]
EM/10WRM	Remote mount 10-watt emergency battery
EM/10WRM/RTS	Remote mount 10-watt emergency battery with regressed test switch [1]
EM/12WRM	Remote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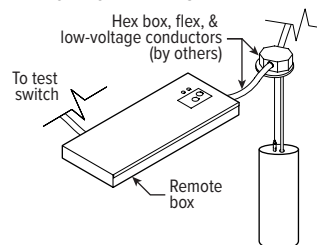
TEST SWITCH DETAILS

Standard

Regressed

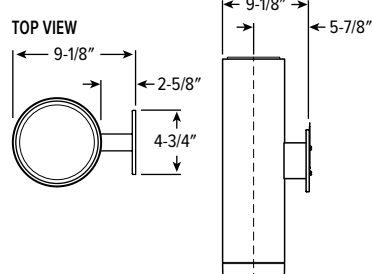## MOUNTING DETAILS

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
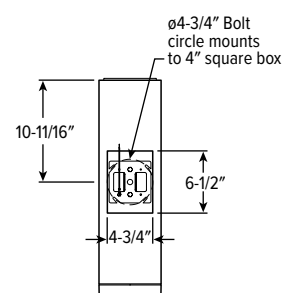- Hard ceiling anchor provided by others

WALL MOUNT (WM)

Mounts to 4" square J-box.

TOP VIEW
9-1/8"
2-5/8"
4-3/4"

SIDE VIEW
9-1/8"
5-7/8"

BACK VIEW
ø4-3/4" Bolt circle mounts to 4" square box
10-11/16"
6-1/2"
4-3/4"

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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6CRDI LED
6.5" Direct/Indirect Cylinder – Round

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.
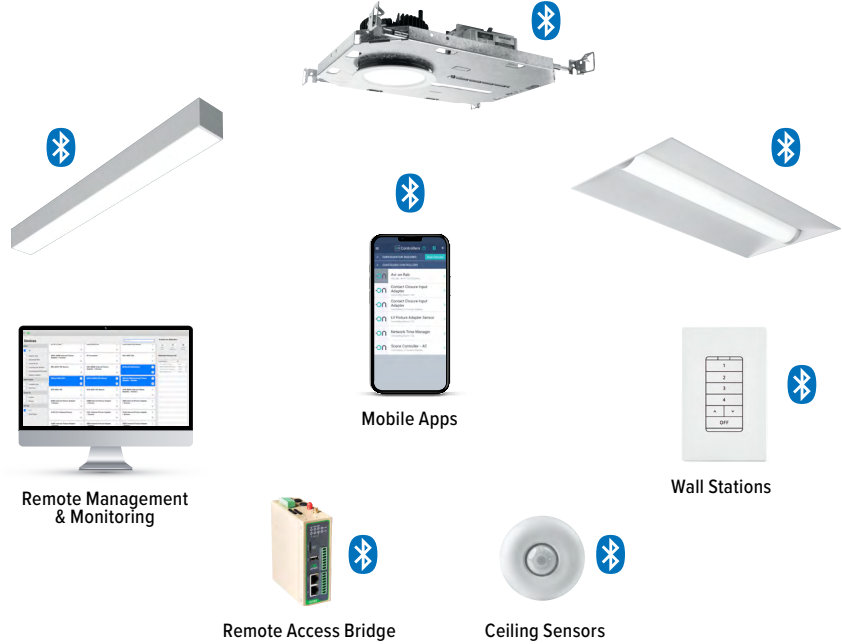
Commissioning Mobile App

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: L50 max for DALI driver, L40 max for DMX and LDE1 drivers. 347V only available with DIM and DIM1 drivers. L15 min for DIM LINE driver when specified downlight wall mount or uplight. Lutron Athena control and DMX driver 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.
AWNR/DA	Lutron Athena wireless node fixture control, RF only, for use with driver with 12V auxiliary power. Up and down switch together.
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.
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

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

Remote box

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