

CATALOG #: PROJECT: TrimLock*

ORDERING EXAMPLE: 6CRDI - TL - 23 - L20/835U/L20/835D - OPTIONS - WHT - CONTROL/DIM - UNV,-,LW/LM - CS - TRIM OPTIONS,-,CM, - HOUSING MOUNT. – TRIM –

HOUSING

SERIES HEIGHT LUMEN PACKAGE (Example: L30/835U/L15/835D) OPTIONS HOUSING FINISH [1] **EM/10WRM/RTS** Remote mount 10-watt emergency battery with regressed test switch [2] Specify lumen packages: \boldsymbol{U} for Up and \boldsymbol{D} for Down 6CRDI - TL 23 23" ALUM Silver sparkle aluminum TrimLock LUMENS [4] CRI CCT U OR D **BIK** Textured black Remote mount control/driver box, RDB BRZ Textured bronze 1.000lm 8 80 27 2700K U Uplight 110 galvanized steel [3] 1,500lm 30 3000K D Downlight Textured nickel L15 **9** 90 L20 2,000lm SLV Textured silver 35 3500K L30 3,000lm WHT Textured white **40** 4000K L40 4,000lm 50 5000K 5,000lm L60 6,000lm

CONTROL DRIVER VOLTAGE See page 4 for ADDITIONAL CONTROL/DRIVER OPTIONS. See page 4 for ADDITIONAL CONTROL/DRIVER OPTIONS. 347 347V [9] DIM Entire fixture switches and dims together [7]

AVI-LVFA Avi-on wireless fixture control [5] DIM1 1% Dimming driver, 0-10V

AWNR Lutron Athena wireless node fixture control, RF only [6] Driver with 12V auxiliary power, without external dimming wires [8]

TRIM

TRIM TYPE AND DISTRIBUTION

(Example Uplight/Downlight: LW/LM)

TRIM TYPE

Uplight

O Open reflector with clear glass shield [13] L Flush lens [14]

Downlight

O Open reflector

Open reflector with frosted top diffuser [15]

Flush lens

R Regressed lens

DISTRIBUTION

See page 2 for BEAM ANGLE.

Uplight

W Wide M Medium [16]

N Narrow [17]

Downlight

W Wide

M Medium [18] N Narrow [19]

REFLECTOR FINISH [10]

Downlight Open Trim Types

CS Clear semi-specular anodize

Satin-glow anodize Gold anodize

Champagne gold anodize

PW Pewter anodize

SPC Clear specular anodize RG Rose gold anodize

White texture powder coat

Black texture powder coat

UNV 120-277V

TRIM OPTIONS

AD Diffuse acrylic lens [11]

polycarbonate lens [12]

MOUNTING

MOUNTING TYPE [20]

Adjustable aircraft cable mount, 24", 48", 96", or 144" only, must specify. Example: 24" cable = CM24 [21] WM Wall mount

NOTES

See page 5 for HOUSING FINISH DETAILS.

- Max remote distance 50', including suspension length. Large remote box provided. EM light defaults to downlight output. Specify CEC in the option code when California Energy Commission regulations are required. See page 4 for EMERGENCY BATTERY DETAILS.
- Painted driver box available, specify RDB/BLK or RDB/WHT.
- 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. DA Driver only. See page 6 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.

 Specified for downlight Trim Type only. See page 5 for REFLECTOR FINISH DETAILS.

- **Downlight Lens Trim Types**
 - Clear semi-specular powder coat
 - White texture powder coat Black texture powder coat
- Bronze texture powder coat
- NK
- Nickel texture powder coat Silver texture powder coat
- Silver sparkle aluminum

PD Diffuse 1/8"

- Not available with O or F Trim Types. Downlight only. W Distribution only.
 Not available with O or F Trim Types. Downlight only. W Distribution only.
 CS Reflector Finish standard. Other colors available, consult factory.
- Not available with WM Mounting Type. Trim finish matches Housing Finish. Other colors available, consult factory. Not available with L60 lumen package.
- O Trim Type only when specified with WM Mounting Type.
- 17 O Trim Type only.

 18 O Trim Type only when specified with L50 or L60 lumen packages.

- 19 O Trim Type only when specified with L50 or L60 lumen packages.
 20 See page 5 for MOUNTING DETAILS.
 21 L20 lumen package max for uplight. Canopy painted white unless specified otherwise. Must specify cord. See page 5 for CORD OPTIONS.

6CRD LED 6.5" Direct/Indirect Cylinder – Round

FEATURES

- 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 $10^{\circ}\,$ 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
- Innovative TrimLock® reflector retention system ensures trim remains secure
- 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.
- 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. 50/60 Hz constant current driver.
- 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
 - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY 5-year limited warranty, see hew.com/warranty

FIXTURE PERFORMANCE DATA

		DOWNLIGHT							UPLIC	SHT WALL M	OUNT
			OPEN REF	LECTOR	FLUSH	LENS	REGRESS	ED LENS		OPEN REI	FLECTOR
	DIST.	WATTAGE	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	WATTAGE	DELIVERED LUMENS	EFFICACY (lm/W)
	W	9.0	1027	114	674	75	660	73	9.0	871	97
2	М	9.0	999	111	895	99	895	99	9.0	847	94
	N	9.0	1000	111	914	102	882	98	9.0	848	94
	W	13.9	1466	105	994	72	972	70	13.9	1243	89
13	М	13.9	1471	106	1319	95	1319	95	13.9	1247	90
	N	13.9	1473	106	1347	97	1300	94	13.9	1249	90
	W	19.8	2005	101	1352	68	1323	67	19.8	1700	86
120	М	19.8	2002	101	1794	91	1795	91	19.8	1697	86
	N	19.8	2004	101	1833	93	1769	89	19.8	1699	86
	W	27.8	2985	107	2022	73	1979	71	27.8	2531	91
130	М	27.8	2900	104	2683	97	2685	97	27.8	2459	88
	N	27.8	2734	98	2741	99	2646	95	27.8	2318	83
	W	38.0	3979	105	2695	71	2638	69	38.0	3373	89
5	М	38.0	3865	102	3577	94	3579	94	38.0	3277	86
	N	38.0	3644	96	3654	96	3527	93	38.0	3089	81
	W	45.2	5124	113	3364	74	3292	73	45.2	4344	96
L50	М	45.2	4956	110	_	-	-	-	45.2	4202	93
	N	45.2	4818	107	_	-	-	_	45.2	4085	90
	W	50.4	6041	120	4074	81	3986	79	50.4	5409	107
097	М	50.4	5842	116	_	-	-	_	50.4	5230	104
	N	50.4	5679	113	-	-	-	-	50.4	5083	101

	UPLIGHT CABLE MOUNT							
		OPEN REI	FLECTOR	FLUSH	LENS			
Υ	WATTAGE	DELIVERED LUMENS	EFFICACY (Im/W)	DELIVERED LUMENS	EFFICACY (Im/W)			
	10.6	760	72	1019	96			
	10.6	734	69	1004	95			
	10.6	653	62	_	-			
	17.5	1285	73	1723	98			
	17.5	1241	71	1697	97			
	17.5	1014	58	_	-			
	23.2	1687	73	2263	98			
	23.2	1630	70	2228	96			
	23.3	1332	57	-	_			

- Photometrics tested in accordance with IESNA LM-79. Results based on CS (O Trim Type) or WH (L and R Trim Types) Reflector Finish, W Distribution, for Up and Down components, 80 CR/I3500K 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

MULTIPLIER TABLES

	COLOR TEMPERATURE					
	ССТ	CONVERSION FACTOR				
	2700K	0.92				
=	3000K	0.98				
80 CRI	3500K	1.00				
~	4000K	1.01				
	5000K	1.02				
	2700K	0.76				
≂	3000K	0.79				
90 CRI	3500K	0.82				
ြ	4000K	0.84				
	5000K	0.88				

	REFLECTOR FINISH					
	CATALOG NUMBER	CONVERSION FACTOR				
	CS	1.00				
	SG [1]	0.92				
	GD	0.93				
Σ	CG	0.96				
O TRIM	PW	0.86				
0	SPC	1.02				
	RG	0.88				
	WH [1]	0.89				
	BL [1]	0.47				
	WH	1.00				
	CS [1]	0.98				
Σ	BL [1]	0.79				
R TRIM	BZ [1]	0.76				
~	NK [1]	0.81				

TRIM OPTIONS				
CATALOG NUMBER	CONVERSION FACTOR			
F	0.75			
AD	0.85			
PD	0.85			

- Distribution will also be affected, consult factory.
- Beam angle based on CS or WH Reflector Finish.

BEAM ANGLE

	TRIM TYPE [2]							
		DOWN	LIGHT		WM UPLIGHT	CM UF	LIGHT	
	0	F	L	R	0	0	L	
W	65°	60°	50°	50°	65°	70°	50°	
М	45°	50°	35°	30°	45°	40°	30°	
N	10°	25°	25°	25°	10°	15°	20°	

PHOTOMETRY CONTINUED ON NEXT PAGE.

SV [1]

AL [1]

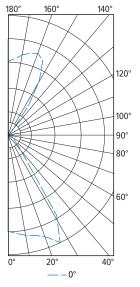
0.81

0.86



PHOTOMETRY

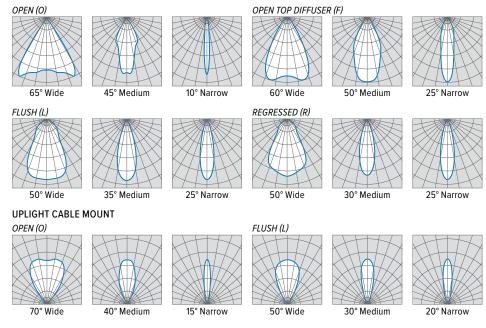
6CRDI-TL-23-L20/835U/L20/835D-DIM-UNV-OW/OW-CS-WM Total Luminaire Output: 3820 lumens; 38.8 Watts | Efficacy: 98 lm/W | 80 CRI; 3500K CCT



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

	ZONE	LUMENS	% FIXTURE
≿	0 - 30	1692	44
LUMEN SUMMARY	0 - 40	2059	54
	0 - 60	2107	55
	0 - 90	2110	55
뿔	90 - 120	19	1
3	90 - 150	496	13
	90 - 180	1710	45
	0 - 180	3820	100

DOWNLIGHT



SEE NEXT PAGE FOR ADDITIONAL CONTROL/DRIVER OPTIONS.



ADDITIONAL CONTROL/DRIVER OPTIONS

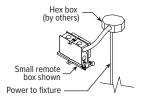
Lumen restrictions apply: L50 max for DALI driver, L40 max for DMX and LDE1 drivers. 347V only available with DIM and DIM1 drivers. L15 min for DIM LINE driver when specified downlight wall mount or uplight.

CONTROL/DRIVER	DESCRIPTION	RDB D	DB DETAILS BY LUMEN STOP [1]						
		L10	L15	L20	L30	L40	L50	L60	w/EM
DIM	Dimming driver prewired for 0-10V low voltage applications; entire fixture switches and dims together	015	015	015	015	OIL	OIL	OIL	RIL
DIMU/DIMD	Dimming driver prewired for 0-10V low voltage applications; up and down portions switch and dim separately	015	015	015	015	OIL	OIL	OIL	RIL
DIM1	1% dimming driver prewired for 0-10V low voltage applications	015	015	015	015	OIL	OIL	OIL	RIL
DIM1U/DIM1D	1% dimming driver prewired for 0-10V low voltage applications; up and down portions switch separately	015	015	015	015	OIL	OIL	OIL	RIL
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)	_	0 5	015	015	OIL	OIL	OIL	RIL
DIM LINEU/DIM LINED	D Line voltage switching and line voltage dimming; up and down portions switch separately		0 5	015	015	OIL	OIL	OIL	RIL
DMX	0.1% dimming driver for DMX controls		RIL	RIL	RIL	RIL	_	_	RIL
DMX/DMX	0.1% dimming driver for DMX controls; up and down portions switch separately		RIL	RIL	RIL	RIL	_	_	RIL
DALI	DALI dimming driver	OIL	OIL	OIL	OIL	OIL	OIL	_	RIL
DALI/DALI	DALI dimming driver; up and down portions switch separately	OIL	OIL	OIL	OIL	OIL	OIL	_	RIL
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver	OIL	OIL	OIL	OIL	OIL	_	_	RIL
LDE1/LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver; up and down portions switch separately	OIL	OIL	OIL	OIL	OIL	_	_	RIL
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power. Up and down switch together.	OIL	OIL	OIL	OIL	OIL	OIL	OIL	RIL
AVI-LVFA/DA-U/D	A-U/D Avi-on wireless fixture control for use with driver with 12V auxiliary power. Up and down switch separately.		OIL	OIL	OIL	OIL	OIL	OIL	RIL
AWNR/DA	Lutron Athena wireless node fixture control, RF only, for use with driver with 12V auxiliary power. Up and down switch together.		RIS	RIS	RIS	RIL	RIL	RIL	RIL
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.	RIS	RIS	RIS	RIS	RIL	RIL	RIL	RIL

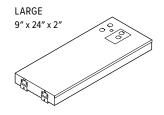
¹ If using two different stops for U/D, see highest lumen stop for RDB.

REMOTE MOUNT DETAILS

Max remote distance is 50', connection by others. Must be room-side accessible for maintenance.







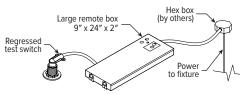
REMOTE MO	REMOTE MOUNT KEY				
RIS	RDB Required, Small Box				
015	RDB Optional, Small Box				
RIL	RDB Required, Large Box				
OIL	RDB Optional, Large Box				

EMERGENCY BATTERY DETAILS



Regressed test switch

Max remote distance is 50' including suspension length, connection by others.



TRIMLOCK DETAILS





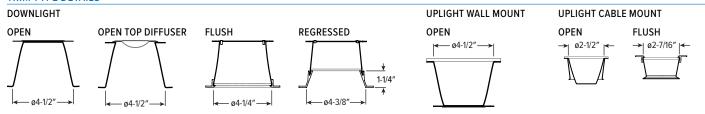






6CRD LED 6.5" Direct/Indirect Cylinder – Round

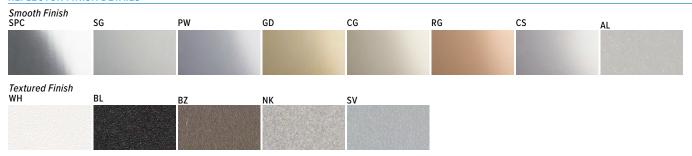
TRIM TYPE DETAILS



HOUSING FINISH DETAILS



REFLECTOR FINISH DETAILS



MOUNTING DETAILS

CABLE MOUNT (CM__)

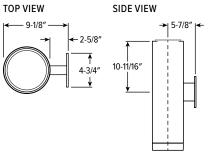


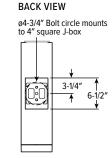
Provided with:

- Adjustable length aircraft cable, must specify length in $24^{\prime\prime}$, $48^{\prime\prime}$, $96^{\prime\prime}$, or $144^{\prime\prime}$ inches.
- 18-gauge cord, 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)







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



AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

FEATURES

Simple

- Gateway-free distributed control
- 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.







Zone Scanner Web App

Commissioning Pro App

SYSTEM COMPONENTS





Remote Management & Monitoring





Remote Access Bridge

Ceiling Sensors

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ACCESSORIES

Mobile App

WALL STATIONS	
AVI-B-2401AC-1	Scene controller - buttons numbered 1-4 and up/down/off, 120-277VAC
AVI-B-2402BAT-1	Scene controller - buttons numbered 1-4 and up/down/off, battery powered
AVI-B-2401AC-2	Dimmer with presets - buttons with percentages and up/down/off, 120-277VAC
AVI-B-2402BAT-2	Dimmer with presets - buttons with percentages and up/down/off, battery powered
AVI-B-2401AC-3	Two button control on/off or hold to dim up/down, 120-277VAC
AVI-B-2402BAT-3	Two button control on/off or hold to dim up/down, battery powered

NETWORK

AVI-RAB-LTE Remote access bridge

AVI-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