

CATALOG #:	 		
TYPE:			
PROJECT:			



ORDERING EXAMPLE: 4CS - 13 - L20/835 - OPTIONS - WHT - CONTROL/DIM - UNV LW - WH - TRIM OPTIONS CM MOUNT. - HOUSING TRIM

HOUSING

SERIES HEIGHT LUMENS ^[1] CRI CCT OPTIONS HOUSING FINISH ^[2] 4CS 13 13" L5 500lm L7 700lm L9 9 90 30 3000K L9 900lm L12 1,200lm L12 1,500lm L12 1,500lm L12 0,000lm L12 0,000lm L12 0,000lm L12 0,000lm L15 1,500lm L15										
L7 700lm 9 90 30 3000K battery with regressed test switch [3] BLK Textured black L9 900lm 35 3500K RDB Remote mount control/driver box, galvanized steel [4] NKL Textured bronze NKL Textured bronze NKL Textured bronze NKL Textured bronze Sty Textured nickel Sty Textured silver	SERIES	HEIGHT	LUN	IENS [1]	CRI	CCT	OPTIONS		HOUS	SING FINISH [2]
1.25 2.500lm	4CS	13 13"	L7 L9 L12 L15 L20	700lm 900lm 1,200lm 1,500lm 2,000lm		30 3000K 35 3500K 40 4000K		battery with regressed test switch [3] Remote mount control/driver box,	BLK BRZ NKL SLV	Textured black Textured bronze Textured nickel Textured silver

CONTROL

See page 3 for ADDITIONAL CONTROL/ DRIVER OPTIONS.

None

AVI-LVFA Avi-on wireless fixture control [5] Lutron Athena wireless node integral fixture control, RF only ^[6] AWNR

DRIVER

See page 3 for ADDITIONAL CONTROL/ DRIVER OPTIONS.

DIM Dimming driver, 0-10V DIM1 1% Dimming driver, 0-10V Driver with 12V auxiliary power, without external dimming wires [7]

VOLTAGE

UNV 120-277V 347 347V [8]

TRIM

TRIM TYPE	DISTRIBUTION [9]	REFLECTOR FINISH [10]		TRIM OPTIONS
L Flush lens O Open reflector R Regressed lens	W 50° Wide M 30° Medium N 20° Narrow [11] S 14° Narrow spot [12]	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	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	AD Diffuse acrylic lens [13] PD Diffuse 1/8" polycarbonate lens [14]

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]

TwistLock surface mount to octagonal J-box SM

WM Wall mount

NOTES

- 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.
 See page 4 for HOUSING FINISH DETAILS.

 Max remote distance 50′, including suspension length. Large remote box provided.

 Specify CEC in the option code when California Energy Commission regulations are required. See page 3 for EMERGENCY BATTERY DETAILS.

 Painted driver box available, specify RDB/BLK or RDB/WHT.

- DA Driver only. See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. DA Driver only. SM Mounting Type installed in remote box, must specify RDB Option. Avi-on and Lutron Athena Controls only.

- Not available with EM batteries, DA, or DMX drivers.

 Beam angle based on L Trim Type and WH Reflector Finish. Trim Type affects beam angle.

 See page 2 for FIXTURE PERFORMANCE DATA.
- See page 4 for REFLECTOR FINISH DETAILS.
 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.

- See page 4 for MOUNTING DETAILS.
 Canopy painted white unless specified otherwise. Must specify cord. See page 4 for CORD OPTIONS. 16
- 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.

4CS LED 4" Cylinder – Square

FEATURES

- 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
- Precision-engineered extruded aluminum housing and die-cast aluminum trim face for clean aesthetic
- Variety of cord colors available in standard or braided for custom design
- Reflectors create smooth, low-glare radiance
- 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, 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

ſ		FILICII				INTOILE FERT ORIGINAL DATA						
		FLUSH LENS TRIM TYPE			OPEN REF	LECTOR TR	IM TYPE	REGRESS	ED LENS TR	IM TYPE		
	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)		
	W	526	6.6	80	381	7.2	53	530	6.5	82		
<u>12</u>	М	528	6.6	80	361	7.2	50	520	6.6	79		
-	N	511	6.5	79	372	7.2	52	511	6.5	79		
	S	607	7.8	78	435	7.8	56	609	7.8	78		
	W	739	8.5	87	535	9.3	58	745	8.5	88		
7	М	742	8.5	87	507	9.3	55	731	8.5	86		
- [N	718	8.5	84	523	9.3	56	718	8.5	84		
	S	848	11.2	76	607	11.2	54	850	11.2	76		
	W	947	10.5	90	686	11.4	60	954	10.5	91		
၂၅	М	950	10.5	90	650	11.4	57	936	10.5	89		
	N	920	10.5	88	670	11.4	59	920	10.5	88		
	S	1085	14.1	77	777	14.1	55	1089	14.1	77		
	W	1292	14.0	92	936	15.3	61	1302	14.0	93		
12	М	1296	14.0	93	886	15.3	58	1277	14.0	91		
=	N	1254	14.0	90	914	15.3	60	1255	14.0	90		
	S	1440	20.4	71	1031	20.4	51	1445	20.4	71		
	W	1602	17.3	93	1160	17.3	67	1614	17.3	93		
듄	М	1607	17.3	93	1099	17.3	64	1583	17.3	92		
=	N	1555	17.3	90	1133	17.3	65	1556	17.3	90		
	S	1783	26.7	67	1276	26.7	48	1789	26.6	67		
	W	2104	23.4	90	1523	25.6	59	2119	23.4	91		
2	М	2110	23.4	90	1443	25.6	56	2079	23.4	89		
2	N	2042	23.4	87	1488	25.6	58	2043	23.4	87		
	S	_	_	_	_	_	_	_	_	_		
	W	2528	29.5	86	2155	32.2	67	2547	29.4	87		
125	М	2536	29.5	86	1734	32.2	54	2498	29.5	85		
=	N	_	_	_		_	_		_	-		
	S	-	-	-	-	-	-	_	-	-		

MULTIPLIER TABLES

COLOR TEMPERATURE

	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			
6	4000K	0.84			
	5000K	0.88			

TRIM	OPTIONS
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85

	REFLECTOR FINISH					
	CATALOG NUMBER	CONVERSION FACTOR				
	CS	1.00				
	SG [1]	0.92				
≥	GD	0.93				
O TRIM	CG	0.96				
0	PW	0.86				
	SPC	1.02				
	RG	0.88				

	WH	1.00
	CS [1]	0.98
Σ	BL [1]	0.79
R TRIM	BZ [1]	0.76
~	NK [1]	0.81
	SV [1]	0.81
	AL [1]	0.86

Distribution will also be affected, consult factory.

BEAM ANGLE

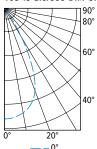
	TRIM TYPE					
	FLUSH OPEN REGRESSE					
W	50°	50°	55°			
М	30°	47°	30°			
N	20°	47°	20°			
S	14°	43°	14°			

Photometrics tested in accordance with IESNA LM-79. Results based on WH (L and R Trim Types) or CS (O Trim Type) Reflecto	r
Finish, W Distribution, average wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%.	

To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.

PHOTOMETRY

4CS-13-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	ZONAL LUMENS
_		0°	
호	0	1852	
🚊	5	1869	129
물	15	1690	259
<u>S</u>	25	1065	225
CANDLEPOWER DISTRIBUTION	35	269	83
\ <u>\s_{_{_{_{_{_{_{_{_{_{_{_{_{_</u>	45	109	43
굨	55	72	32
ᅙ	65	46	21
5	75	22	9
	85	5	1
	90	0	

	, , , ,		
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
3	0 - 40	1361	85
S	0 - 60	1526	95
뿔	0 - 90	1601	100
3	0-180	1602	100

Use multiplier tables to calculate additional options.



FLUSH















REGRESSED









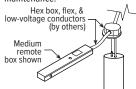
ADDITIONAL CONTROL/DRIVER OPTIONS

CONTROL/	DESCRIPTION			RDB DETAILS BY LUMEN STOP						
DRIVER		L5	L7	L9	L12	L15	L20	L25	w/EM	
DIM	Dimming driver prewired for 0-10V low voltage applications			015	015	015	015	015	RIL	
DIM1	1% dimming driver prewired for 0-10V low voltage applications			015	015	015	015	015	RIL	
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)		_	015	015	015	015	015	RIL	
DMX	0.1% dimming driver for DMX controls		RIM	RIM	RIM	RIM	RIM	RIM	RIL	
DALI	DALI dimming driver		RIM	RIM	RIM	RIM	RIM	RIM	RIL	
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver		RIM	RIM	RIM	RIM	RIM	RIM	RIL	
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power		015	015	015	015	015	015	RIL	
AWNR/DA [1]	Lutron Athena wireless node integral fixture control, RF only, for use with driver with 12V auxiliary power		015	015	015	015	015	015	RIL	

¹ RDB Option required when specified with SM Mounting Type, size follows table above.

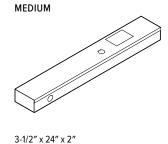
REMOTE MOUNT DETAILS

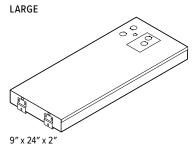
Max remote distance is 50' including suspension. Must be room-side accessible for maintenance.





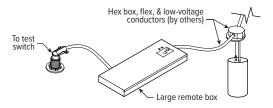
Snap-in Junction Box 6-1/2" x 3" x 4-1/2"





REMOTE MOUNT KEY					
0 5	RDB Optional, Small Box				
RIM	RDB Required, Medium Box				
RIL	RDB Required, Large Box				

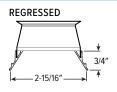
EMERGENCY BATTERY DETAILS



TRIM TYPE DETAILS





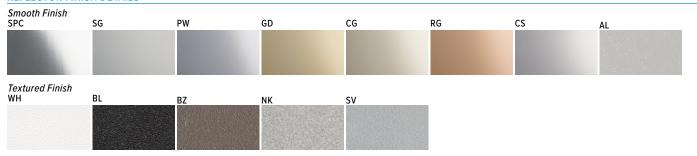




HOUSING FINISH DETAILS

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



MOUNTING DETAILS

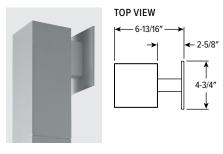
PENDANT MOUNT (PM__)



Provided with:

- 38° Swivel canopy
- 3/8" IPS Threaded stem
- Specify length of stem, 6" minimum, 24" default length

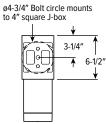
WALL MOUNT (WM)



SIDE VIEW Flush

→ 4-11/16" **|**

BACK VIEW



SURFACE MOUNT (SM)



TwistLock^{*}

Simple lift-and-twist mounting secures fixture to J-box.

Provided with surface mount adaptor with pigtail

CABLE MOUNT (CM__)



Provided with:

- Dual adjustable length aircraft cables, must specify length in 24", 48", 96", or 144" 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

POWER CORD MOUNT (PC)



Provided with:

- 18-gauge cord, 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



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

- 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





Remote Access Bridge

Ceiling Sensors

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Mobile App **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