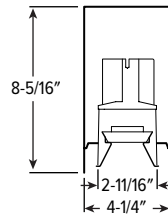


4CS^{LED} 4" Compact Cylinder – Square



CATALOG #: _____

TYPE: _____

PROJECT: _____



TwistLock™

ORDERING EXAMPLE: **4CS - 08 - L20/835 - RDB - OPTIONS - WHT - CONTROL/DIM - UNV - LW - WH - TRIM OPTIONS - CM**
HOUSING TRIM MOUNT.

HOUSING

SERIES	HEIGHT	LUMENS ^[1]	CRI	CCT	REMOTE	OPTIONS	HOUSING FINISH ^[2]
4CS	08 8"	L5 500lm L7 700lm L9 900lm L12 1,200lm L15 1,500lm L20 2,000lm L25 2,500lm	8 80 9 90	27 2700K 30 3000K 35 3500K 40 4000K 50 5000K	RDB Remote mount control/driver box, galvanized steel ^[3]	EM/10WRM/RTS Remote mount 10-watt emergency battery with regressed test switch ^[4]	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]

AWNRLutron Athena wireless node integral fixture control, RF only ^[6]

DRIVER

See page 3 for ADDITIONAL CONTROL/DRIVER OPTIONS.

DIM Dimming driver, 0-10V

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	DISTRIBUTION ^[9]	REFLECTOR FINISH ^[10]	TRIM OPTIONS
L Flush lens	W 50° Wide	Open Trim Types	AD Diffuse acrylic lens ^[13]
O Open reflector	M 30° Medium	CS Clear semi-specular anodize	PD Diffuse 1/8" polycarbonate lens ^[14]
R Regressed lens	N 20° Narrow ^[11]	SG Satin-glow anodize	
	S 14° Narrow spot ^[12]	GD Gold anodize	
		CG Champagne gold anodize	
		PW Pewter anodize	
		SPC Clear specular anodize	
		RG Rose gold anodize	
		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	

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]

SM TwistLock surface mount to octagonal J-box

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.
- Painted driver box available, specify RDB/BLK or RDB/WHT.
- 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.
- DA Driver only. See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- DA Driver only.
- 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.

¹⁰ See page 4 for REFLECTOR FINISH DETAILS.

¹¹ 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.

¹⁵ See page 4 for MOUNTING DETAILS.

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

¹⁷ 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" Compact Cylinder – Square

FEATURES

- Engineered to deliver great performance in a sleek, space-saving design
- Parallel the performance and style of the Williams daylight 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 technology
- 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. Control, driver, and EM battery installed in remote mount box.
- 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.

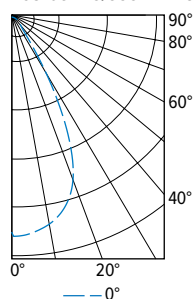
FIXTURE PERFORMANCE DATA

	DISTRIBUTION	FLUSH LENS TRIM TYPE			OPEN REFLECTOR TRIM TYPE			REGRESSED LENS TRIM TYPE		
		DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L5	W	526	6.6	80	381	7.2	53	530	6.5	82
	M	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
L7	W	739	8.5	87	535	9.3	58	745	8.5	88
	M	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
L9	W	947	10.5	90	686	11.4	60	954	10.5	91
	M	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
L12	W	1292	14.0	92	936	15.3	61	1302	14.0	93
	M	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
L15	W	1602	17.3	93	1160	17.3	67	1614	17.3	93
	M	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
L20	W	2104	23.4	90	1523	25.6	59	2119	23.4	91
	M	2110	23.4	90	1443	25.6	56	2079	23.4	89
	N	2042	23.4	87	1488	25.6	58	2043	23.4	87
	S	–	–	–	–	–	–	–	–	–
L25	W	2528	29.5	86	2155	32.2	67	2547	29.4	87
	M	2536	29.5	86	1734	32.2	54	2498	29.5	85
	N	–	–	–	–	–	–	–	–	–
	S	–	–	–	–	–	–	–	–	–

- 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%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

PHOTOMETRY

4CS-08-L15/835-DIM-UNV-LW-WH Total Luminaire Output: 1602 lumens; 17.3 Watts | Efficacy: 92.5 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1852	
	5	1869	129
	15	1690	259
	25	1065	225
	35	269	83
	45	109	43
	55	72	32
	65	46	21
	75	22	9
	85	5	1
	90	0	

LUMEN SUMMARY	TRIM TYPE		
	FLUSH	OPEN	REGRESSED
W	50°	50°	55°
M	30°	47°	30°
N	20°	47°	20°
S	14°	43°	14°

ZONE	LUMENS	% FIXTURE
0 - 40	1361	85
0 - 60	1526	95
0 - 90	1601	100
0-180	1602	100

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	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

BEAM ANGLE

	TRIM TYPE		
	FLUSH	OPEN	REGRESSED
W	50°	50°	55°
M	30°	47°	30°
N	20°	47°	20°
S	14°	43°	14°

	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
O TRIM	CS	1.00
	SG ⁽¹⁾	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02

R TRIM	WH	1.00
	CS ⁽¹⁾	0.98
	BL ⁽¹⁾	0.79
	BZ ⁽¹⁾	0.76
	NK ⁽¹⁾	0.81
	SV ⁽¹⁾	0.81

¹ Distribution will also be affected, consult factory.



H.E. Williams, Inc.

Carthage, Missouri

www.hew.com

417-358-4065

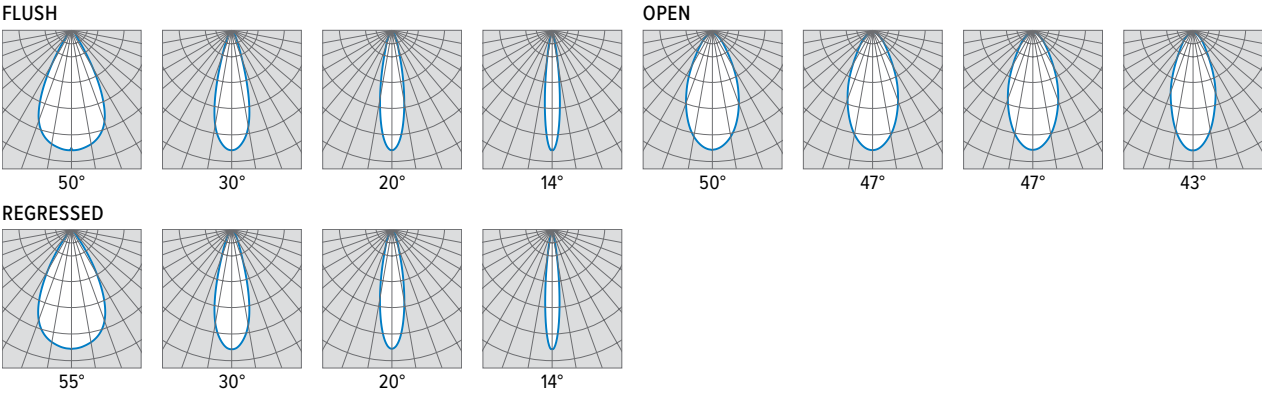
Designed and Manufactured in the USA

Information contained herein is subject to change without notice.

REV.08/22/24.LA

Cylinders
Page 2 of 5

4CS^{LED} 4" Compact Cylinder – Square

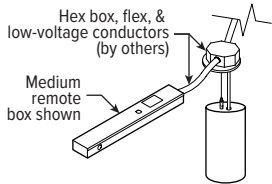


ADDITIONAL CONTROL/DRIVER OPTIONS

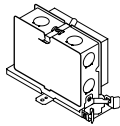
CONTROL/ DRIVER	DESCRIPTION	RDB DETAILS BY LUMEN STOP							
		L5	L7	L9	L12	L15	L20	L25	w/EM
DIM	Dimming driver prewired for 0-10V low voltage applications	RIS	RIS	RIS	RIS	RIS	RIS	RIS	RIL
DIM1	1% dimming driver prewired for 0-10V low voltage applications	RIS	RIS	RIS	RIS	RIS	RIS	RIS	RIL
DIM LINE	Line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

REMOTE MOUNT DETAILS

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



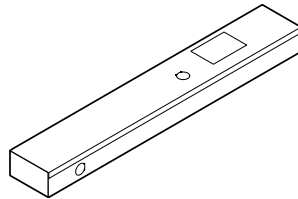
SMALL



Snap-in
Junction Box

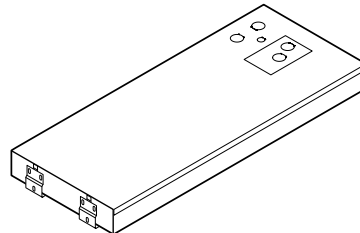
6-1/2" x 3" x 4-1/2"

MEDIUM



3-1/2" x 24" x 2"

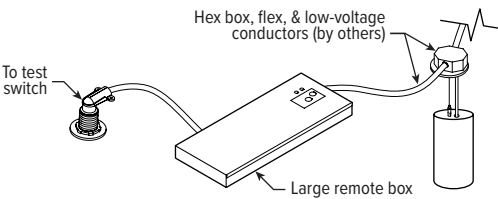
LARGE



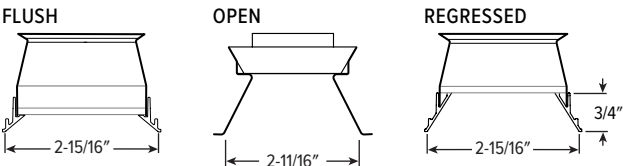
9" x 24" x 2"

REMOTE MOUNT KEY	
RIS	RDB Required, Small Box
RIM	RDB Required, Medium Box
RIL	RDB Required, Large Box

EMERGENCY BATTERY DETAILS

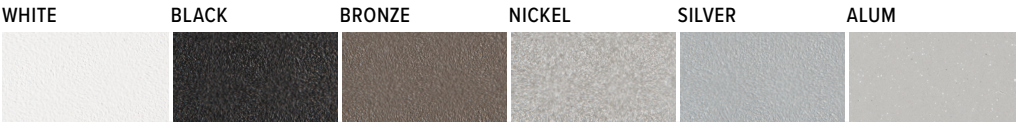


TRIM TYPE DETAILS



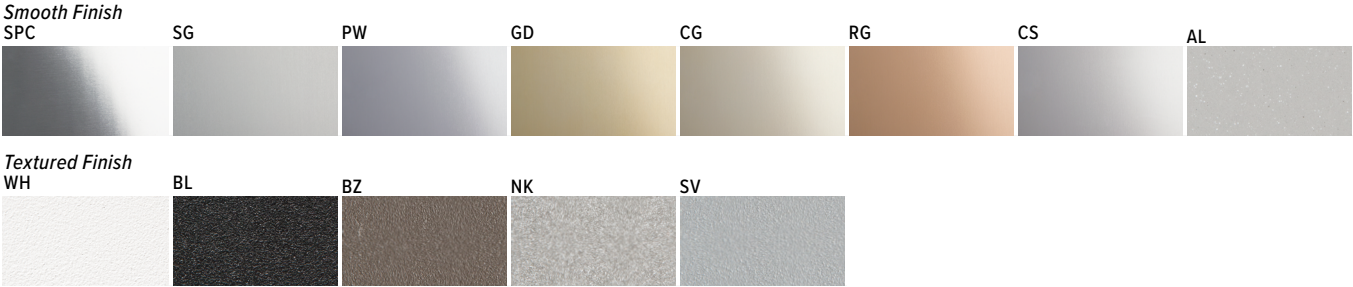
4CS^{LED} 4" Compact Cylinder – Square

HOUSING FINISH DETAILS



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



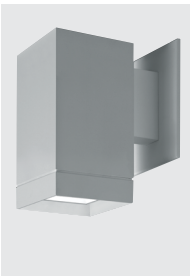
MOUNTING DETAILS

PENDANT MOUNT (PM__)

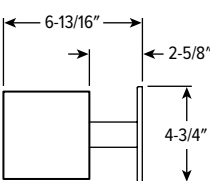


- Provided with:
- 38° Swivel canopy
 - 3/8" IPS Threaded stem
 - Specify length of stem, 6" minimum, 24" default length

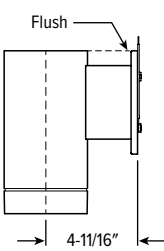
WALL MOUNT (WM)



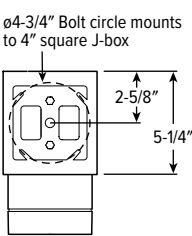
TOP VIEW



SIDE VIEW



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 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

POWER CORD MOUNT (PC)



- Provided with:
- 18-gauge cord, see Cord Options for ordering info.
 - One 5" canopy
 - Power cord mounting adaptor

CORD OPTIONS

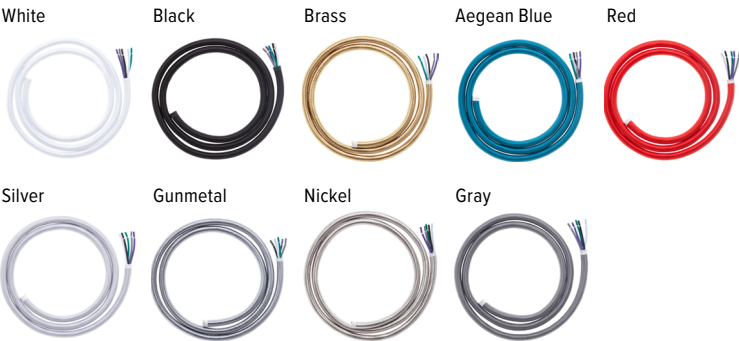
Must specify cord when cable and power cord mounting.

ORDERING EXAMPLE: S2438/W				
CORD TYPE	LENGTH	# CONDUCTORS	WIRE SIZE	COLOR
S Straight	24 24"	3 3	8 18-gauge	Standard
	48 48"	4 4		/W White
	96 96"	5 5		/B Black
		6 6		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.



4CS^{LED} 4" Compact 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

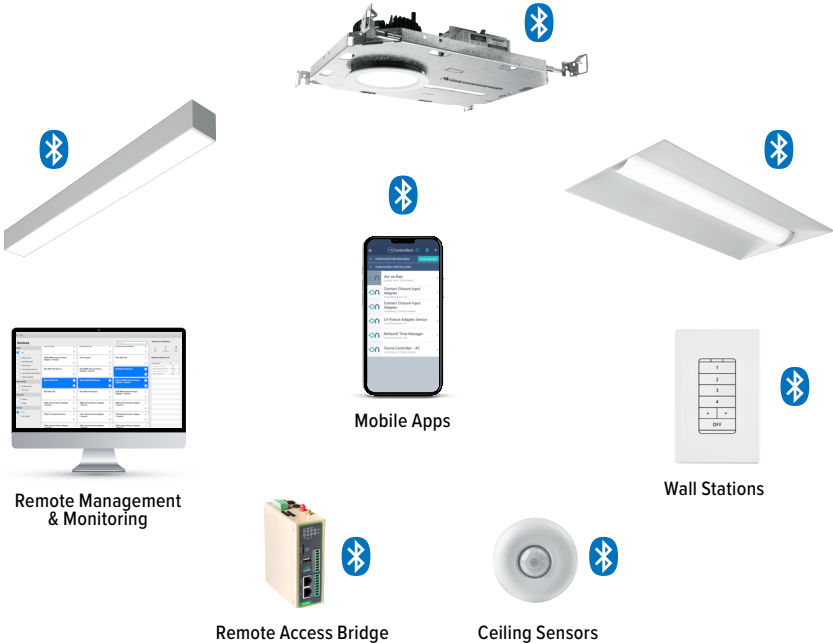


Zone Scanner
Web App



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

