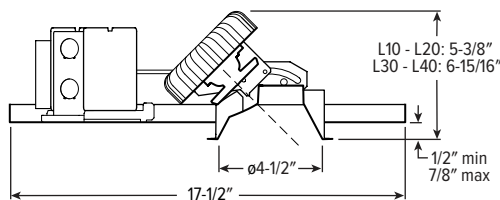


4AR^{LED} 4.5" Adjustable Downlight – Round



CATALOG #: _____

TYPE: _____

PROJECT: _____

NEW CONSTRUCTION AND REMODEL



ORDERING EXAMPLE: 4AR - L20/835 - OPTIONS - CONTROL/DIM - UNV - OW - OF - CS - TRIM OPTIONS - N - F1

HOUSING

SERIES	LUMENS ^[1]	CRI	CCT	OPTIONS	CONTROL	DRIVER	VOLTAGE
4AR	L10 1,000lm	8 80	27 2700K	See page 3 for EMERGENCY BATTERY OPTIONS.	See page 6 for ADDITIONAL CONTROL/DRIVER OPTIONS.	See page 6 for ADDITIONAL CONTROL/DRIVER OPTIONS.	UNV 120-277V
	L15 1,500lm	9 90 ^[2]	30 3000K				347 347V ^[9]
	L20 2,000lm		35 3500K	ATH Airtight construction ^[3]	— None	DIM Dimming driver, 0-10V	
	L30 3,000lm		40 4000K	CP Chicago plenum (CCEA) ^[4]	AVI-LVFA Avi-on wireless fixture control ^[6]	DIM1 1% Dimming driver, 0-10V	
	L40 4,000lm		50 5000K	F Fuse kit	AWNRLutron Athena wireless node integral fixture control, RF only ^[7]	DA Driver with 12V auxiliary power, without external dimming wires ^[8]	
				SDT Stepdown transformer ^[5]			

TRIM^[10]

TRIM TYPE	DISTRIBUTION	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector	See page 2 for BEAM ANGLE.	OF 1/2" standard flange	Open trim types	MWT Smooth matte white trim flange ^[12]
L Flush lens		SF 1/4" mud-in flange ^[11]	CS Clear semi-specular anodize	AD Diffuse acrylic lens ^[13]
A Angled lens	W Wide		WH White texture powder coat	PD Diffuse 1/8" polycarbonate lens ^[14]
	M Medium		BL Black texture powder coat	WET/CC Wet location, covered ceiling listed ^[15]
	N Narrow		Lens trim types	AM Anti-microbial ^[16]
			CS Clear semi-specular powder coat	
			WH White texture powder coat	
			BL Black texture powder coat	

MOUNTING

MOUNTING TYPE ^[17]	MOUNTING HARDWARE ^[18]
N Open pan for new construction	F1 Factory-installed 2-position fixed pan bracket, universal bar hanger included ^[21]
I IC-rated enclosure for new construction ^[19]	BA1 Adjustable butterfly pan bracket, bar hanger not included ^[22]
R Remodel kit ^[20]	CA1 Adjustable caterpillar pan bracket, universal bar hanger included ^[23]

NOTES

¹ Lumen output based on O Trim Type, N Distribution and CS Reflector Finish, 80 CRI/3500K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.

² Extended lead times may apply. Consult factory for availability.

³ I Mounting Type required.

⁴ I Mounting Type required.

⁵ Not available with R Mounting. May be required for 347V, see product builder at hew.com/product-builder

⁶ DA Driver only. See page 6 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.

⁷ DA Driver only.

⁸ Avi-on and Lutron Athena Controls only.

⁹ Not available with EM batteries, DA or DMX Drivers.

¹⁰ Trim ships separately.

¹¹ For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 4 for FLANGE TYPE DETAILS. Not available with ATH Option.

¹² Not available with WH Reflector Finish or L Trim Type.

¹³ L and A Trim Types only. W Distribution only.

¹⁴ L and A Trim Types only. W Distribution only.

¹⁵ L and A Trim Types only.

¹⁶ WH and BL Reflector Finishes only.

¹⁷ Mounting Hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.

¹⁸ Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.

¹⁹ Not available with L30 and L40 lumen packages. Not available with EM batteries.

²⁰ Also used in new construction sheetrock ceilings. Pan-less installation.

²¹ N and I Mounting Types only. Universal bar hanger ships uninstalled. I Mounting requires external brackets.

²² N Mounting Type only.

²³ N Mounting Type only.



4AR^{LED} 4.5" Adjustable Downlight – Round

FEATURES

- Adjustable aim with 0° - 45° tilt and 360° rotation
- Beam angles ranging from 20° narrow to 45° wide for tailored performance
- 4 inch aperture is unobtrusive in small scale spaces
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Choice of open reflector or die-cast lensed trims to complement interior style
- Etched degree markers and directional indicator make it simple to fine-tune the illumination angle
- Spring clip retention system eliminates trim sag
- Fully room-side accessible
- New construction mounting pan, IC-rated, or pan-less remodel kit available
- Low UGR meets LEED and WELL requirements
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING** – Die-cast aluminum spun and stamped articulating mechanism with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Mounting clips allow for ceiling thickness from 1/2" - 7/8".
- OPEN REFLECTOR** – Low-iridescent anodized aluminum. 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>55,000 hours. Estimated L70 = 200,000 hours.
- MOUNTING** – Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure. Remodel kit option includes receiver bracket hardware. N and R mounting types for use in non-fire rated installations only. Minimum 24" O.C. marked spacing required for L30 and L40 lumen packages.
- LISTINGS** –
 - cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for dry and damp locations. LED light assembly conforms to UL 2108 for remote installation.
 - Suitable for wet location under covered ceiling when specified with WET/CC option.
 - IC-rated for direct contact with insulation when specified with I Mounting Type.
 - City of Chicago Environmental Air approved when specified with CP option.
 - Complies with ASTM-E283 when specified with ATH option.
 - RoHS compliant.
 - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/buy-american
- WARRANTY** – 5-year limited warranty, see hew.com/warranty

FIXTURE PERFORMANCE DATA

OPEN REFLECTOR TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	690	12.1	57
	M	946	12.1	78
	N	1014	12.1	84
L15	W	1041	17.2	61
	M	1427	17.2	83
	N	1529	17.2	89
L20	W	1380	24.2	57
	M	1892	24.0	79
	N	2028	24.0	85
L30	W	1532	36.9	42
	M	2497	36.9	68
	N	2785	36.9	76
L40	W	2043	49.0	42
	M	3330	49.0	68
	N	3714	49.0	76

FLUSH LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	684	12.1	57
	M	915	12.1	76
	N	953	12.1	79
L15	W	1031	17.2	60
	M	1381	17.2	80
	N	1438	17.2	84
L20	W	1368	24.0	57
	M	1831	24.0	76
	N	1907	24.0	80
L30	W	2091	36.9	57
	M	2718	36.9	74
	N	2701	36.9	76
L40	W	2788	49.0	57
	M	3625	49.0	74
	N	3602	49.0	74

ANGLED LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	486	12.1	40
	M	712	12.1	59
	N	859	12.1	71
L15	W	733	17.2	43
	M	1074	17.2	62
	N	1295	17.2	75
L20	W	972	24.0	41
	M	1425	24.0	59
	N	1718	24.0	80
L30	W	1528	36.9	41
	M	2067	36.9	56
	N	2313	36.9	76
L40	W	2037	49.0	42
	M	2756	49.0	56
	N	3085	49.0	63

MULTIPLIER TABLES

COLOR TEMPERATURE	
CCT	CONVERSION FACTOR
2700K	0.92
3000K	0.98
3500K	1.00
4000K	1.01
5000K	1.02

80 CRI	
2700K	0.76
3000K	0.79
3500K	0.82
4000K	0.84
5000K	0.88

OPEN REFLECTOR FINISH	
CATALOG NUMBER	CONVERSION FACTOR
CS	1.00
WH	0.89
BL	0.79

TRIM	
CATALOG NUMBER	CONVERSION FACTOR
AD ^[1]	0.85
PD ^[1]	0.85

BEAM ANGLE

TRIM TYPE ^[2]			
	O	L	A
W	45°	40°	30°
M	30°	30°	25°
N	20°	25°	25°

- Distribution will also be affected, consult factory.
- Beam angle based on CS or WH Reflector Finish.
 - Photometrics tested in accordance with IESNA LM-79. Results based on O Trim Type, CS Reflector Finish, 0° tilt, N 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 table to calculate additional options.

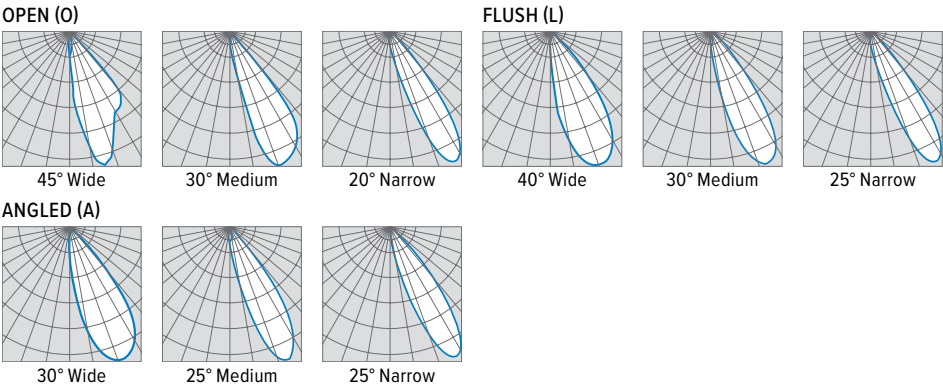
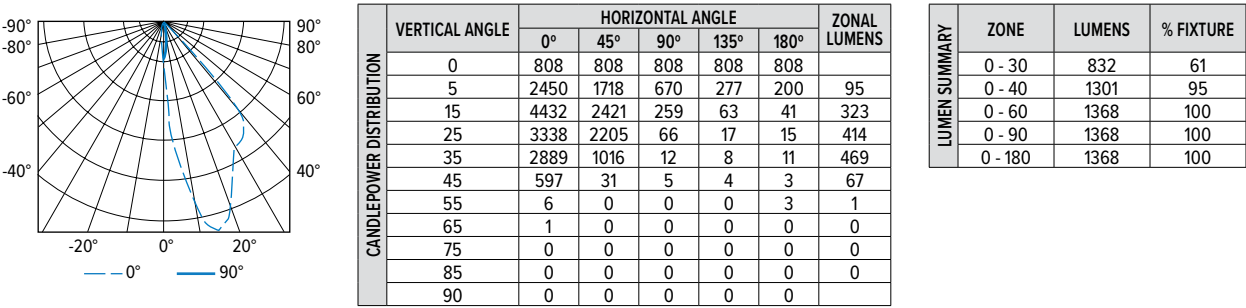
PHOTOMETRY CONTINUED ON NEXT PAGE



4AR^{LED} 4.5" Adjustable Downlight – Round

PHOTOMETRY

4AR-L20/835-DIM-UNV-OW-OF-CS (25° tilt) Report #: 20446; 05/21/18 | Total Luminaire Output: 1368 lumens; 24.2 Watts | Efficacy: 56.6 lm/W | 81.7 CRI; 3628K CCT



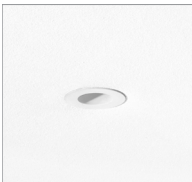
EMERGENCY BATTERY OPTIONS

Additional limitations apply, see page 1. Specify CEC in the option code when California Energy Commission regulations are required.

CATALOG NUMBER	DESCRIPTION
EM/7W	7-watt emergency battery
EM/7W/RTS	7-watt emergency battery with regressed test switch ¹
EM/10W	10-watt emergency battery
EM/10W/RTS	10-watt emergency battery with regressed test switch ¹

¹ Not available with WET/CC Trim Option.

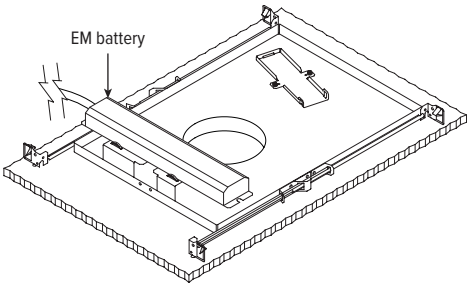
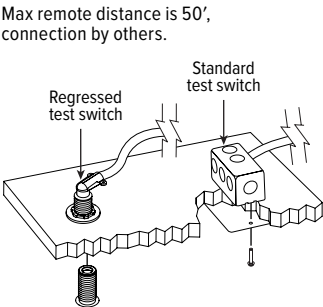
MOUNTING DETAILS



Regressed test switch
ø1-3/4"



Standard test switch
2-3/4" x 4-1/2"



4AR LED

4.5" Adjustable Downlight – Round

APERTURE ADAPTOR ORDERING INFO

ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	CATALOG NUMBER	CEILING CUTOUT	FINISH
4AR 6AR 4DR 6DR 4DS 6DS 4PR 6PR 4PS 6PS 8DR	GR	Specify ceiling cutout in 1/8" increments. Example: 5.75" = 0575 See Kit Components for application limits.	CS Clear semi-specular powder coat WH White texture powder coat BL Black texture powder coat

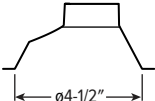
Adaptor (goof ring) corrects ceiling cutout errors during remodel downlight installation.

Additional finishes available, consult factory.

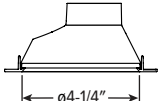
For limitations and instructions, see hew.com/aperture-adaptor.pdf

TRIM TYPE DETAILS

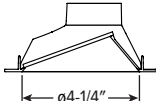
OPEN



FLUSH

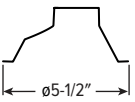


ANGLED



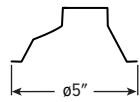
FLANGE TYPE DETAILS

1/2" STANDARD



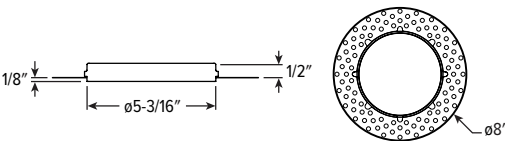
Ceiling Cutout: 5"

1/4" MUD-IN



Ceiling cutout: 5-1/2"

MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)



REFLECTOR FINISH DETAILS

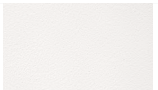
CS

Clear semi-specular



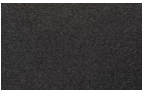
WH

White



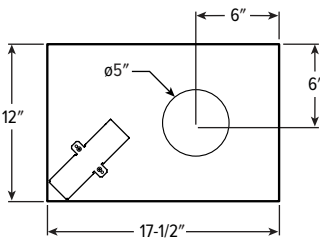
BL

Black

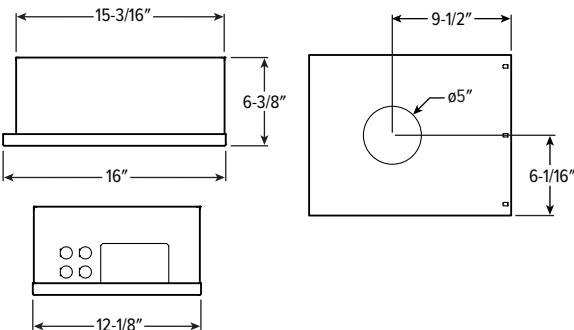


MOUNTING TYPE DETAILS

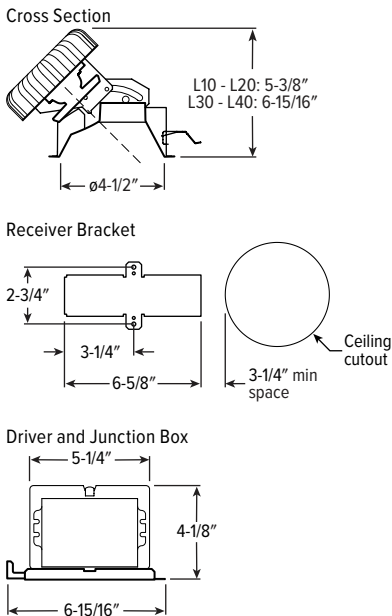
NEW CONSTRUCTION



IC-RATED



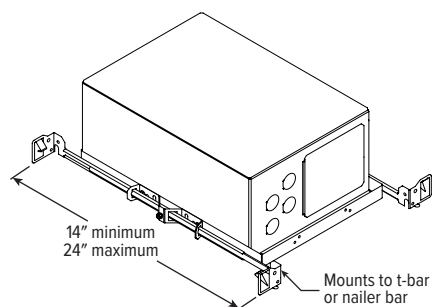
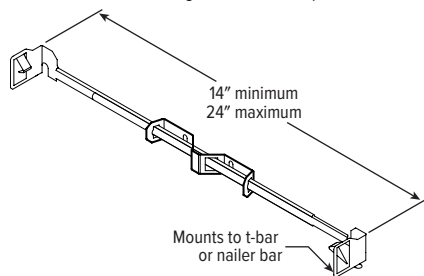
REMODEL



4AR^{LED} 4.5" Adjustable Downlight – Round

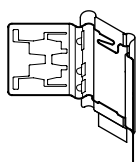
MOUNTING HARDWARE DETAILS

F1 Factory-installed 2-position fixed pan bracket, universal bar hanger included, ships uninstalled

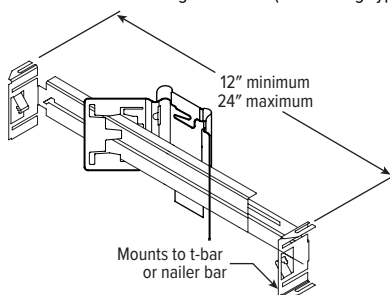


F1 with I Mounting Type

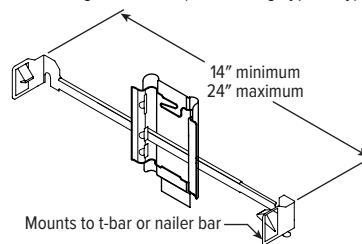
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



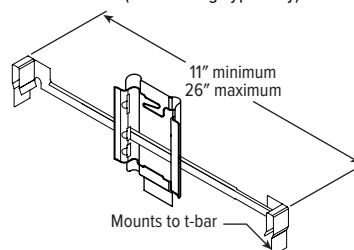
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



CA1 Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



CA2 Adjustable caterpillar pan bracket, t-bar hanger included (N Mounting Type only)



SEE NEXT PAGE FOR CONTROL DETAILS.



4AR^{LED} 4.5" Adjustable Downlight – Round

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.



Commissioning Mobile App

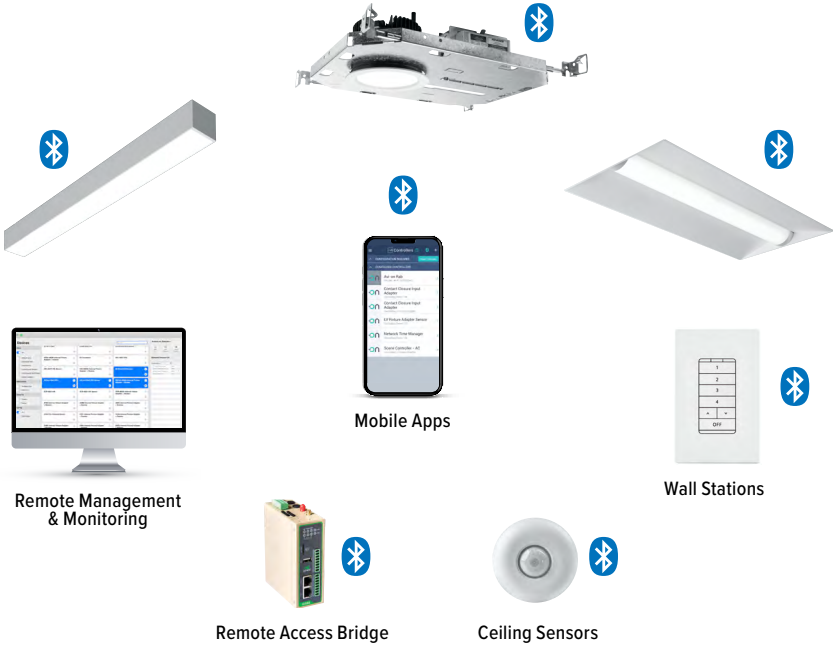


Zone Scanner Web App



Commissioning Pro App

SYSTEM COMPONENTS



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ACCESSORIES

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

ADDITIONAL CONTROL/DRIVER OPTIONS

Lumen restrictions apply: L30 max for DMX driver and Lutron drivers, L40 max for DIM LINE driver. R mounting type requires top access with DMX controls. R Mounting Type not available with FCJS controls. R Mounting Type requires 12" minimum plenum depth when specified with VRF/DBI controls. I Mounting Type not available with Lutron controls. 347V may require stepdown transformer, see product builder at hew.com/product-builder

CATALOG NUMBER	DESCRIPTION
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power
VRF/DBI/LDE1	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, with Lutron Hi-lume 1% EcoSystem dimming LED driver
FCJS/DIM	Lutron Vive PowPak wireless fixture control with dimming driver
FCJS/DIM1	Lutron Vive PowPak wireless fixture control with 1% dimming driver
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)
DALI	DALI dimming driver
DMX	0.1% dimming driver for DMX controls
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver

