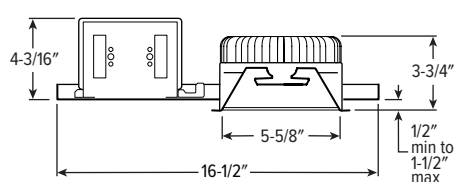


6PS^{LED} 6" Shallow Plenum Downlight – Square



L10 – L30 Lumens shown

CATALOG #: _____

TYPE: _____

PROJECT: _____



NEW CONSTRUCTION AND REMODEL

ORDERING EXAMPLE: 6PS - L40/835 - OPTIONS - CONTROL/DIM - UNV - LW - OF - WH - TRIM OPTIONS - N - F1

HOUSING

SERIES	LUMENS ^[1]	CRI	CCT	OPTIONS	CONTROL	DRIVER	VOLTAGE
6PS	L10 1,000lm ^[2]	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	30 3000K	See page 3 for APERTURE ADAPTOR ORDERING INFO.	– None	DIM Dimming driver, 0-10V	347 347V ^[8]
	L20 2,000lm		35 3500K		AVI-LVFA Avi-on wireless fixture control ^[5]	DIM1 1% Dimming driver, 0-10V	
	L30 3,000lm		40 4000K	ATH Airtight construction	AWNRLutron Athena wireless node integral fixture control, RF only ^[6]	DA Driver with 12V auxiliary power, without external dimming wires ^[7]	
	L40 4,000lm		50 5000K	CP Chicago plenum (CCEA) ^[3]			
	L50 5,000lm			F Fuse kit			
	L60 6,000lm			SDT Stepdown transformer ^[4]			
	L70 7,000lm						

TRIM^[9]

TRIM TYPE	DISTRIBUTION ^[10]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens	W 85° Wide M 35° Medium ^[11] N 30° Narrow ^[12]	OF 1/2" standard flange SF 1/4" mud-in flange ^[13]	CS Clear semi-specular powder coat WH White texture powder coat BL Black texture powder coat	IP IP65 rated trim AD Diffuse acrylic lens ^[14] PD Diffuse 1/8" polycarbonate lens ^[15] WET/CC Wet location, covered ceiling listed AM Anti-microbial ^[16]

MOUNTING

MOUNTING TYPE^[17]

- N Open pan for new construction
- I IC-rated enclosure for new construction^[19]
- R Remodel kit^[20]

MOUNTING HARDWARE^[18]

- F1 Integral 2-position fixed pan bracket, universal bar hanger included^[21]
- BA1 Adjustable butterfly pan bracket, bar hanger not included^[22]
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included^[23]

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.
- Not available with EM/10W emergency batteries. I Mounting Type required.
- May be required for 347V, see product builder at hew.com/product-builder
- DA Driver only. See page 6 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- DA Driver only.
- DA Driver only.
- Avi-on and Lutron Athena Controls only.

- Not available with EM batteries, DA or DMX Drivers.
- Trim ships separately.
- Beam angle based on WH Reflector Finish.
- Not available with lumen stops L50 – L70.
- Not available with lumen stop L50 – L70.
- 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 or IP Options.
- W Distribution only.
- W Distribution only.
- WH and BL Reflector Finishes only.

- Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
- L30 lumen package max. Not available with EM batteries.
- Also used in new construction sheetrock ceilings. Pan-less installation.
- N and I Mounting Types only. I Mounting requires external brackets.
- N Mounting Type only.
- N Mounting Type only.



6PS^{LED} 6" Shallow Plenum Downlight – Square

FEATURES

- Slim 5" depth for minimal plenum space applications
- Beam angles ranging from 30° narrow to 85° wide for tailored performance
- Square shape accentuates architectural styles
- Spring clip retention system eliminates trim sag
- Die-cast trim with flush lens provides glare-free illumination for a soft ceiling appearance
- Industry-leading efficacies as high as 101 lm/W
- Fully room-side accessible
- New construction mounting pan, IC-rated, or pan-less remodel kit available
- IP65-rated die-cast trim includes easy-to-clean flush lens
- Wide range of lumen options for general illumination
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- **HOUSING** – Formed steel housing with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Mounting clips allow for ceiling thickness from 1/2" – 1-1/2" (consult factory for additional ceiling thicknesses).
- **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. Minimum 24" O.C. marked spacing required for L50 – L70 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.
 - IP65 rated trim when specified with IP 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

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	1067	10.7	100
	M	1012	10.7	95
	N	971	10.7	91
L15	W	1643	17.2	96
	M	1558	17.2	91
	N	1495	17.2	87
L20	W	2139	23.5	91
	M	2029	23.5	86
	N	1947	23.5	83
L30	W	3222	33.2	97
	M	3056	33.2	92
	N	2932	33.2	88
L40	W	4509	44.5	101
	M	4284	44.5	96
	N	4107	44.5	92
L50	W	5387	54.7	99
	M	–	–	–
	N	–	–	–
L60	W	6174	68.2	91
	M	–	–	–
	N	–	–	–
L70	W	7214	78.2	92
	M	–	–	–
	N	–	–	–

MULTIPLIER TABLES

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

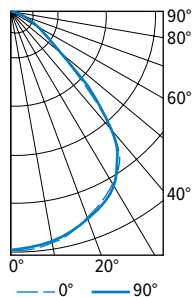
80 CRI	
2700K	0.76
3000K	0.79
3500K	0.82
4000K	0.84
5000K	0.88

TRIM OPTIONS	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85

- Photometrics tested in accordance with IESNA LM-79. Results based on L Trim Type, W Distribution and WH Reflector Finish, 80 CRI/3500K CCT, 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

6PS-L40/835-DIM-UNV-LW-OF-WH Report #: 20372; 04/30/18 | Total Luminaire Output: 4509 lumens; 44.5 Watts | Efficacy: 101.3 lm/W | 82.9 CRI; 3419K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	2230	2230	2230	
5	2230	2218	2211	212
15	2150	2134	2140	607
25	1999	1979	1995	921
35	1774	1772	1731	1109
45	1058	1336	1048	915
55	400	627	385	431
65	192	232	193	207
75	84	90	85	92
85	17	15	17	16
90	0	0	0	

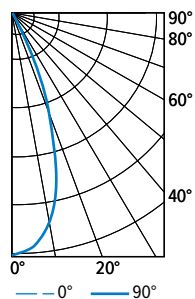
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1739	39
	0 - 40	2848	63
	0 - 60	4194	93
	0 - 90	4509	100
	0 - 180	4509	100

PHOTOMETRY CONTINUED ON NEXT PAGE.



6PS LED 6" Shallow Plenum Downlight – Square

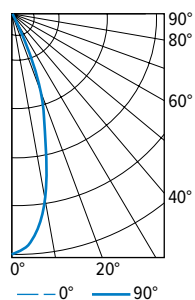
6PS-L40/835-DIM-UNV-LM-OF-WH Report #: 20374; 04/30/18 | Total Luminaire Output: 4284 lumens; 44.5 Watts | Efficacy: 96.3 lm/W | 82.9 CRI; 3419K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	8786	8786	8786	
5	8610	8552	8496	816
15	6039	6091	6127	1724
25	1971	2066	2061	946
35	589	621	623	388
45	247	264	262	201
55	125	139	125	117
65	61	68	61	63
75	25	26	25	27
85	3	4	3	3
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	3486	81
	0 - 40	3874	90
	0 - 60	4192	98
	0 - 90	4284	100
	0 - 180	4284	100

6PS-L40/835-DIM-UNV-LN-OF-WH Report #: 20375; 04/30/18 | Total Luminaire Output: 4107 lumens; 44.5 Watts | Efficacy: 92.3 lm/W | 82.9 CRI; 3419K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	9954	9954	9954	
5	9466	9392	9386	899
15	5533	5584	5550	1565
25	1726	1843	1812	838
35	513	540	550	337
45	243	265	262	199
55	151	172	156	145
65	83	93	86	88
75	31	35	31	35
85	2	3	3	3
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	3301	80
	0 - 40	3638	89
	0 - 60	3981	97
	0 - 90	4107	100
	0 - 180	4107	100

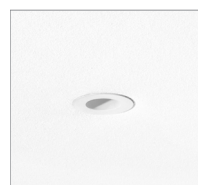
EMERGENCY BATTERY OPTIONS

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 ^[1]
EM/7W/RTS	7-watt emergency battery with regressed test switch ^[2]
EM/7W/IPRTS	7-watt emergency battery with IP65 rated regressed test switch ^[3]
EM/10W	10-watt emergency battery ^[1]
EM/10W/RTS	10-watt emergency battery with regressed test switch ^[2]
EM/10W/IPRTS	10-watt emergency battery with IP65 rated regressed test switch ^[3]

- Not available with IP Trim Option.
- Not available with IP or WET/CC Trim Options.
- Must specify IP Trim Option.

MOUNTING DETAILS

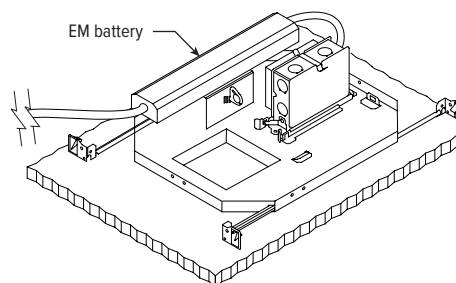
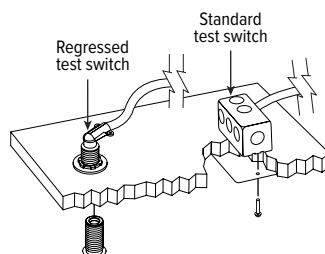


Regressed test switch
ø1-3/4"



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

Max remote distance is 50',
connection by others.



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.

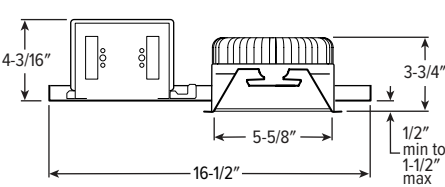
For limitations and instructions, see hew.com/aperture-adaptor.pdf



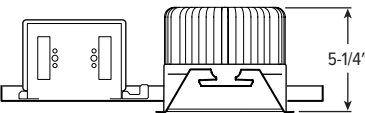
6PS LED 6" Shallow Plenum Downlight – Square

CROSS SECTIONS

L10 – L30 LUMENS

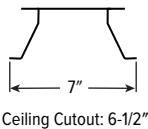


L40 – L70 LUMENS

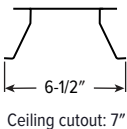


FLANGE TYPE DETAILS

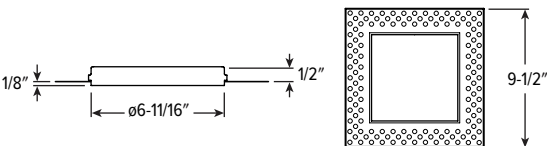
1/2" STANDARD



1/4" MUD-IN



MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)



REFLECTOR FINISH DETAILS

CS

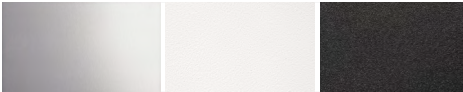
Clear semi-specular

WH

White

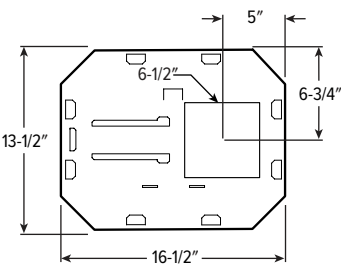
BL

Black

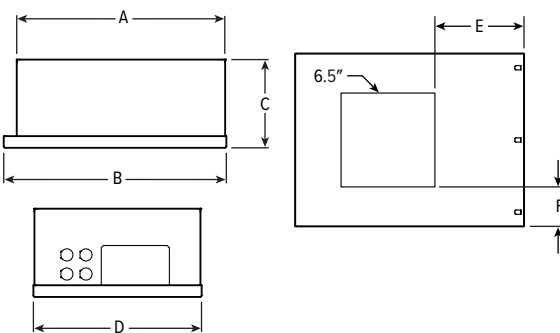


MOUNTING TYPE DETAILS

NEW CONSTRUCTION



IC-RATED

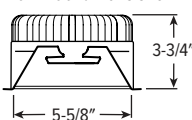


LUMENS	LENGTH					
	A	B	C	D	E	F
L10 - L20	15-3/16"	16"	4-1/2"	12-1/8"	6-1/4"	2-13/16"
L30			6-3/8"			

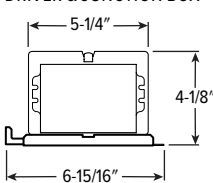
REMODEL

CROSS SECTION

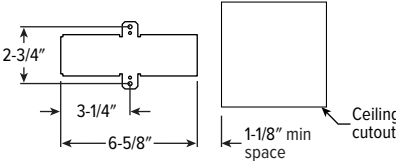
L10 – L30 lumens shown



DRIVER & JUNCTION BOX



RECEIVER BRACKET



MOUNTING DETAILS CONTINUED ON NEXT PAGE.



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.06/06/25.JL

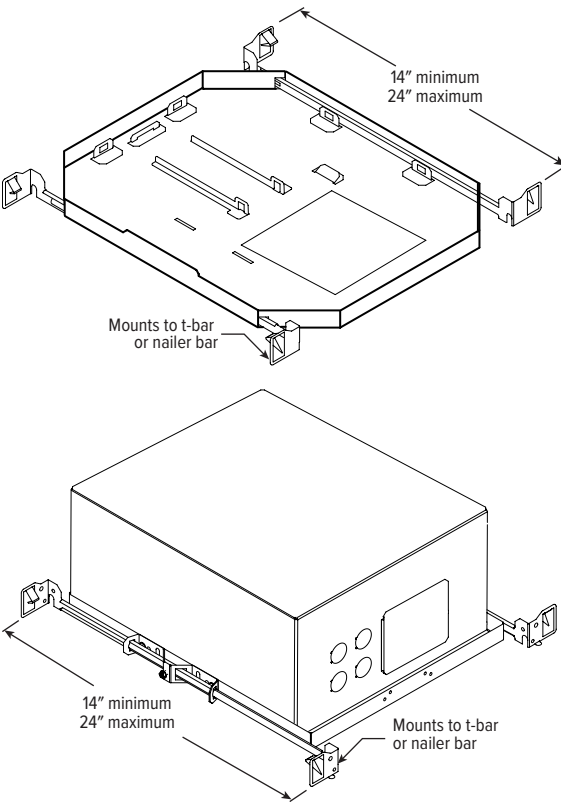
Downlights
Page 4 of 6

6PS LED

6" Shallow Plenum Downlight – Square

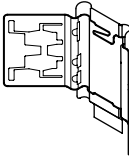
MOUNTING HARDWARE DETAILS

F1 Integral 2-position fixed pan bracket, universal bar hanger included

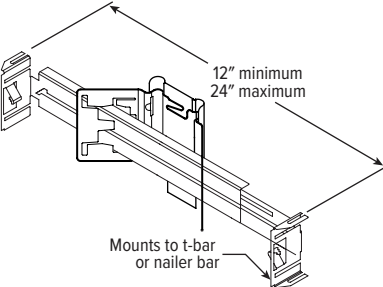


F1 with I Mounting Type

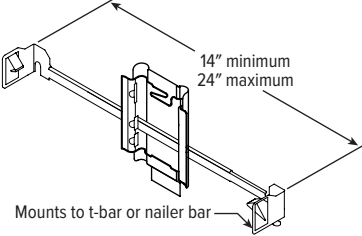
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



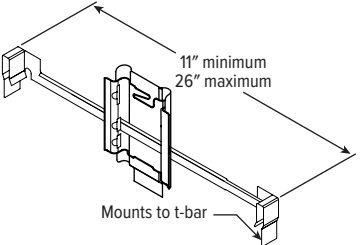
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



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.



6PS^{LED} 6" Shallow Plenum Downlight – Square

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

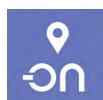
- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

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

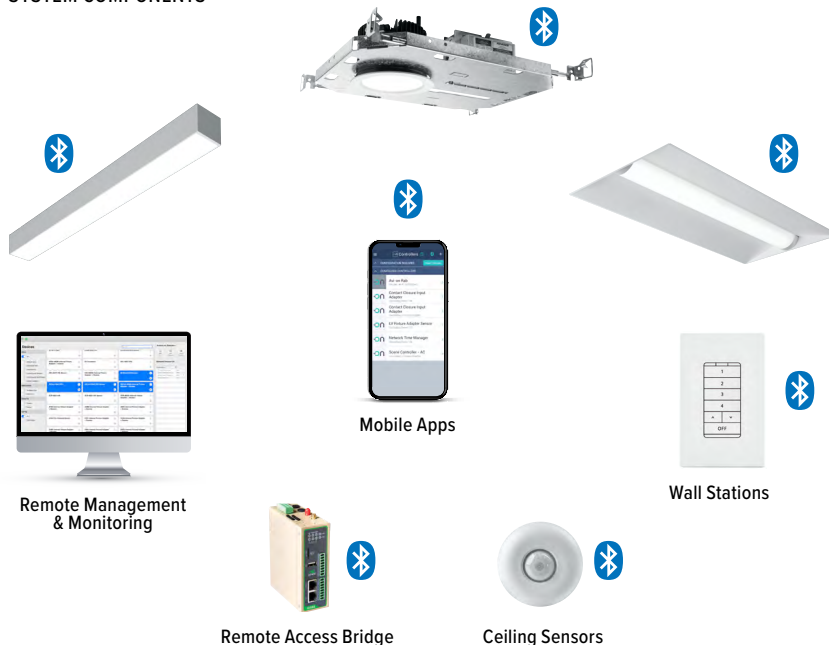


Zone Scanner
Web App



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, L30 max for Lutron drivers, L50 max for DIM LINE driver. R mounting type requires top access with DMX controls. R Mounting Type not available with VRF or FCJS 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

