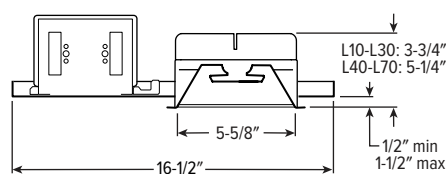


6PS LED

6" Shallow Plenum Downlight – Square



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] L15 1,500lm L20 2,000lm L30 3,000lm L40 4,000lm L50 5,000lm L60 6,000lm L70 7,000lm	8 80 9 90 ^[3]	27 2700K 30 3000K 35 3500K 40 4000K 50 5000K	See page 3 for EMERGENCY BATTERY OPTIONS. ATH Airtight construction CP Chicago plenum (CCEA) ^[4] F Fuse kit SDT Stepdown transformer ^[5]	See page 6 for ADDITIONAL CONTROL/DRIVER OPTIONS. - None AVI-LVFA Avi-on wireless fixture control ^[6] AWNRLutron Athena wireless node integral fixture control, RF only ^[7]	See page 6 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 ^[8]	UNV 120-277V 347 347V ^[9]

TRIM ^[10]

TRIM TYPE	DISTRIBUTION ^[11]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens	W 85° Wide M 35° Medium ^[12] N 30° Narrow ^[13]	OF 1/2" standard flange SF 1/4" mud-in flange ^[14]	CS Clear semi-specular powder coat WH White texture powder coat BL Black texture powder coat	IP IP65 rated trim AD Diffuse acrylic lens ^[15] PD Diffuse 1/8" polycarbonate lens ^[16] WET/CC Wet location, covered ceiling listed ^[17] AM Anti-microbial ^[18]

MOUNTING

MOUNTING TYPE ^[19]	MOUNTING HARDWARE ^[20]
N Open pan for new construction I IC-rated enclosure for new construction ^[21] R Remodel kit ^[22]	F1 Integral 2-position fixed pan bracket, universal bar hanger included ^[23] BA1 Adjustable butterfly pan bracket, bar hanger not included ^[24] CA1 Adjustable caterpillar pan bracket, universal bar hanger included ^[25]

NOTES

- Lumen output based on L trim type, W distribution and WH finish, 3500K/80CRI. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- Not available with EM/10W emergency batteries.
- Extended lead times may apply. Consult factory for availability.
- 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.
- 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.
- Not available with PD trim option.
- 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

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.
 - 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/baa.
- 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

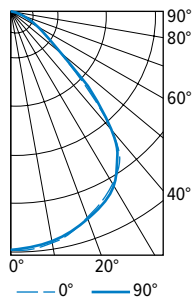
80 CRI	
2700K	0.76
3000K	0.79
3500K	0.82
4000K	0.84
5000K	0.88

TRIM	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is based on 120V input.
- Results based on L trim type, W distribution and WH finish, 3500K/80CRI, actual lumens 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



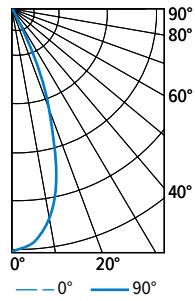
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	2230	2230	2230	
5	2230	2218	2211	212
15	2150	2134	2140	607
25	1999	1979	1995	921
35	1774	1772	1731	1109
45	1058	1336	1048	915
55	400	627	385	431
65	192	232	193	207
75	84	90	85	92
85	17	15	17	16
90	0	0	0	

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



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

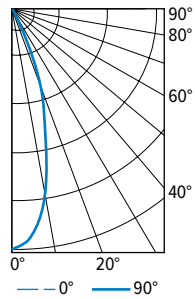
6PS-L40/835-DIM-UNV-LM-OF-WH Report #: 20374; 04/30/18 | Total Luminaire Output: 4284 lumens; 44.5 Watts | Efficacy: 96.3 lm/W | 82.9 CRI; 3419K CCT



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

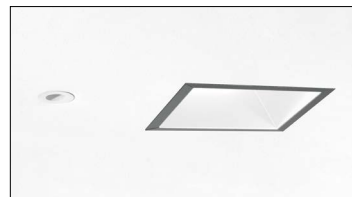
EMERGENCY BATTERY OPTIONS

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

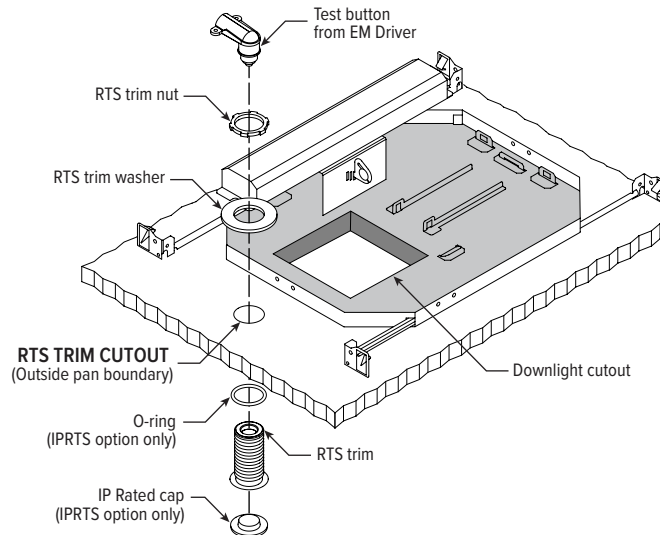
CATALOG NUMBER	DESCRIPTION
EM/7W	7-watt emergency battery ^[1]
EM/7W/RTS	7-watt emergency battery with regressed test switch ^[2]
EM/7W/IPRTS	7-watt emergency battery with IP65 rated regressed test switch
EM/10W	10-watt emergency battery ^[1]
EM/10W/RTS	10-watt emergency battery with regressed test switch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

- 1 Not available with IP Option.
2 Not available with IP or WET/CC Options.

REGRESSED TEST SWITCH DETAILS



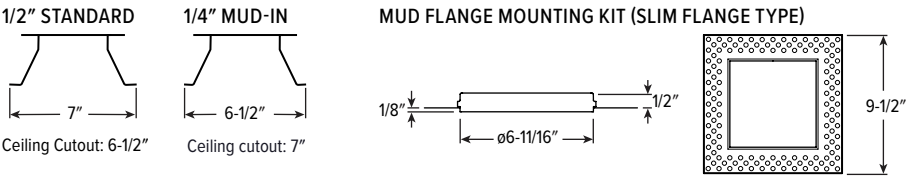
Shown Installed



6PS LED

6" Shallow Plenum Downlight – Square

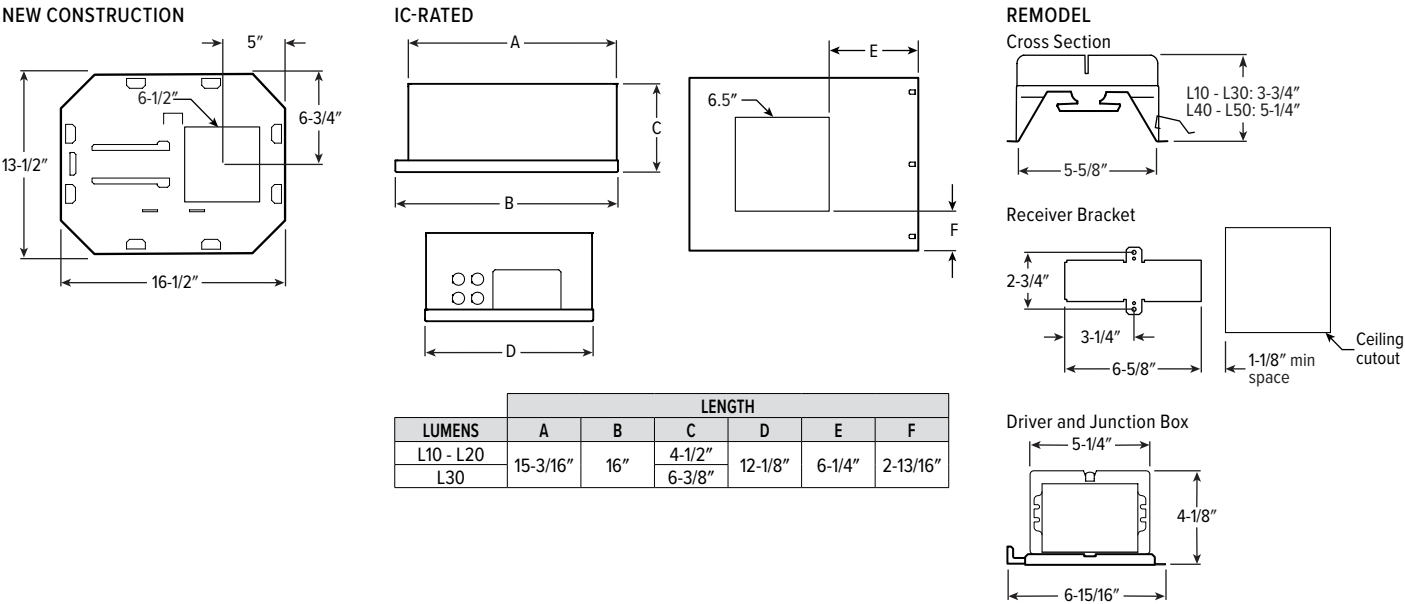
FLANGE TYPE DETAILS



REFLECTOR FINISH DETAILS



MOUNTING TYPE DETAILS



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

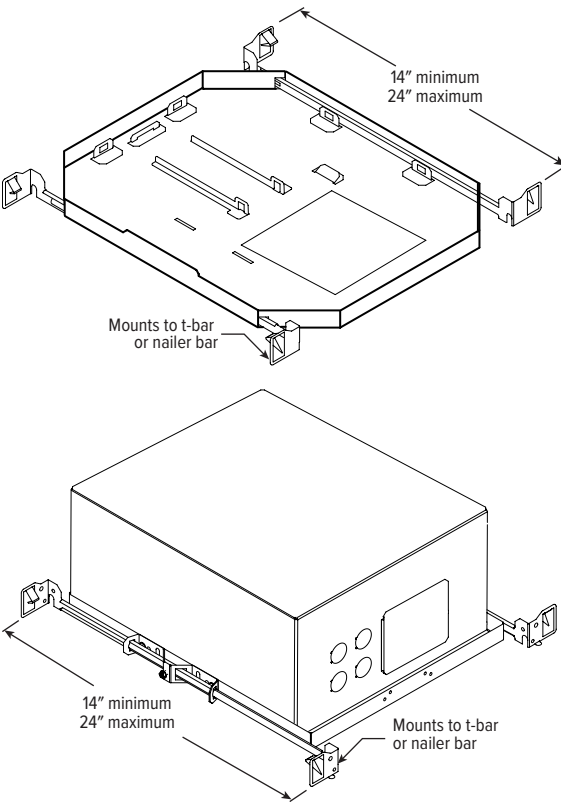
For use with remodel downlights. Additional finishes available, consult factory.
For limitations and instructions, see hew.com/aperture-adaptor.pdf

6PS LED

6" Shallow Plenum Downlight – Square

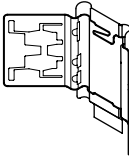
MOUNTING HARDWARE DETAILS

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

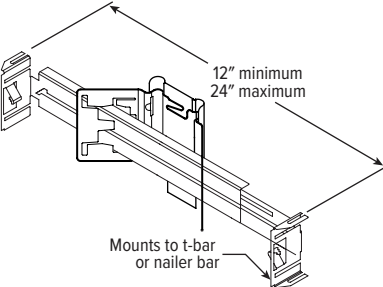


F1 with I Mounting Type

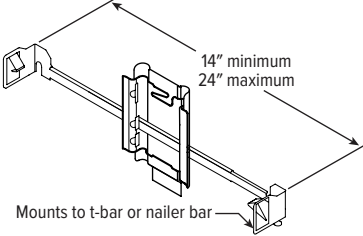
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



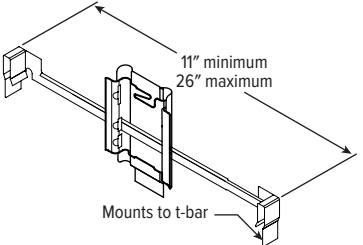
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



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
- 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

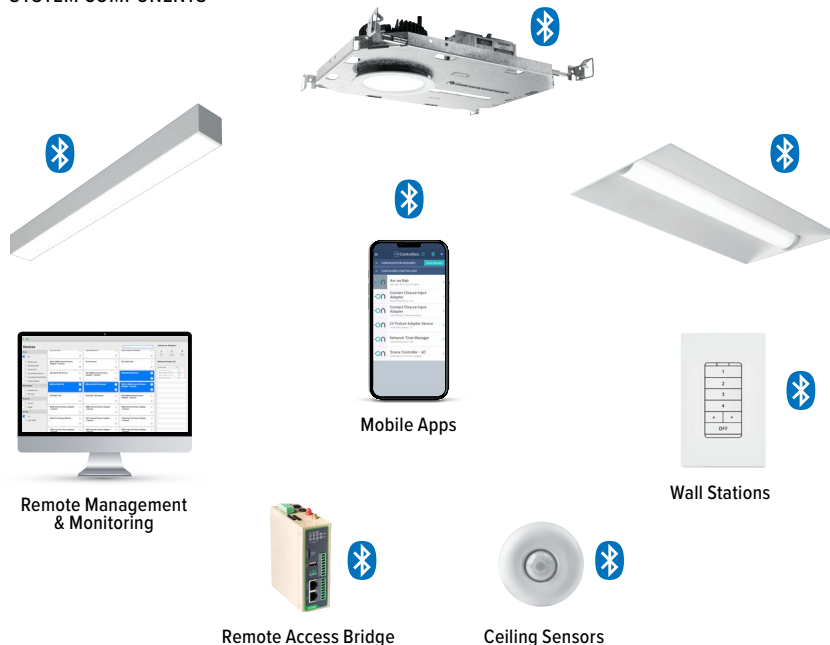


Zone Scanner
Web App



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 – LTE connection
AVI-2001RAB-01-C	Remote access bridge – Wifi connection
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

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. 347V may require stepdown transformer, see product builder at hew.com/product-builder. I Mounting Type not available with Lutron controls.

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

