

CATALOG #: _____

Type: _____

PROJECT: _____



FEATURES

- Gently curved aperture provides soft, even illumination
- Slim 3-3/4" depth for shallow plenum applications
- Two design choices create aesthetic detail
- Low UGR meets LEED and WELL requirements
- Easy to install without the use of tools
- Seamless design prevents light leak
- PMMA lens reduces the risk of yellowing from UV exposure
- Optional surface mount kit preserves continuity
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING** – Die-formed steel with extruded aluminum side rails.
- OPTICS** – PMMA light guide panel, edge-lit (2x2 & 2x4), backlit (1x4)
- FINISH** – Non-glare matte white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL** – High-quality mid-power LED boards. L80 >50,000 hours.
- MOUNTING** – NEMA Type "G" 15/16" or 1" grid standard. For NEMA Type "NFG" and "SG" 9/16" grid installations, specify EQCLIPS option. Surface mount and drywall kit accessories available, shipped separately, see options.
- LISTINGS** –
 - cCSAus certified as luminaire suitable for dry or damp locations.
 - IC-rated for direct contact with insulation.
 - City of Chicago Environmental Air approved when specified with CP option.
 - DesignLights Consortium qualified product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at www.designlights.org/QPL
 - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY** – 5-year limited fixture warranty, see hew.com/warranty.

ORDERING EXAMPLE: AP - 22 - L40/835 - OPTIONS - CONTROL/DIM - UNV

ORDERING INFO

SERIES	WIDTH	LENGTH	LUMENS ^[1]	CRI	CCT
AP Arched panel	1' ^[2]	2' 2'	1x4	80	3000K
APC Arched panel with center fin	2' 2'	4' 4'	L30 3,000lm		35 3500K
			L40 4,000lm		40 4000K
			L55 5,500lm		50 5000K
			2x2		
			L30 3,000lm		
			L40 4,000lm		
			L50 5,000lm		
			2x4		
			L30 3,000lm		
			L50 5,000lm		
			L70 7,000lm		

OPTIONS ^[3]

EM/10W	10-watt emergency battery
DFK-1248W	Drywall kit, 12" x 48", white ^[4]
DFK-2424W	Drywall kit, 24" x 24", white ^[5]
DFK-2448W	Drywall kit, 24" x 48", white ^[6]
AP-22-SMK-W	Surface mount kit, 2'x2', white
AP-24-SMK-W	Surface mount kit, 2'x4', white
EQCLIPS	Earthquake clips ^[7]
CP	Chicago Plenum (CCEA)

CONTROL

See page 6 for ADDITIONAL CONTROL OPTIONS.

–	None
AVI-LVFA	Avi-on wireless fixture control ^[8]
AVI-LVFA-CS2-PIR	Avi-on wireless fixture control with PIR motion and daylight sensor, bottom mount ^[9]
AWNRR	Lutron Athena wireless node integral fixture control, RF only ^[10]
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing ^[11]

DRIVER

See page 6 for ADDITIONAL DRIVER OPTIONS.

DIM	Driver with external dimming wires	UNV	120-277V
DRV	Driver without external dimming wires	347	347V ^[14]
DA	Driver with 12V auxiliary power, without external dimming wires ^[12]		
DSR	Sensor-ready driver without external dimming wires (DAi DALI-2) ^[13]		

VOLTAGE

NOTES

- Lumens based on AP, 3500 CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- 4' length only.
- See page 4 for FLEXIBLE WHIP OPTIONS. See page 3 for SURFACE MOUNT KIT DETAILS.
- See page 4 for DRYWALL KIT (DFK) OPTIONS. DFK and AP housing colors are not identical.
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- 4 per fixture. Optional for 1" grid installations. Required for 9/16" grid mounting.
- DA Driver only.
- DA Driver only.
- DA and DSR Drivers only.
- DA and DSR Drivers only.
- Avi-on and Lutron Athena Controls only.
- Lutron Vive and Athena Controls only.
- Not available with EM batteries, DA, or DSR Drivers.



FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	UNIFIED GLARE RATING (UGR) ^[1]	
					CROSSWISE	ENDWISE
1x4	L30	3006	22.8	132	22.8	22.2
	L40	3904	30.3	129	22.8	22.2
	L55	5582	44.1	127	22.5	21.9
2x2	L30	3030	25.4	119	20.2	20.8
	L40	4026	36.1	112	21.1	21.7
	L50	5065	45.7	111	21.9	22.5
2x4	L30	3081	26.4	117	18.0	18.1
	L50	5060	45.3	112	19.7	19.8
	L70	7035	63.8	110	20.9	21.0

MULTIPLIER TABLES

COLOR TEMPERATURE	
CCT	CONVERSION FACTOR
3000K	0.99
3500K	1.00
4000K	1.03
5000K	1.06

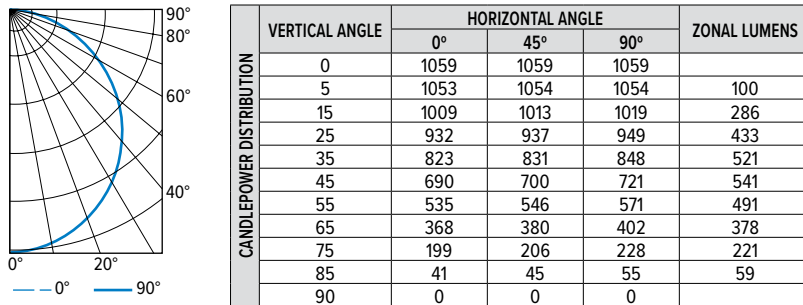
SERIES	CONVERSION FACTOR
AP	1.00
APC	0.88

- Photometrics tested in accordance with IESNA LM-79. Results based on AP, 80 CRI/3500K CCT, average wattage for 120V through 277V 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.

¹ UGR reference values based on 4H x 8H room size with 70%, 50%, and 20% reflectance. Actual values vary based on luminaire options and application specifications.

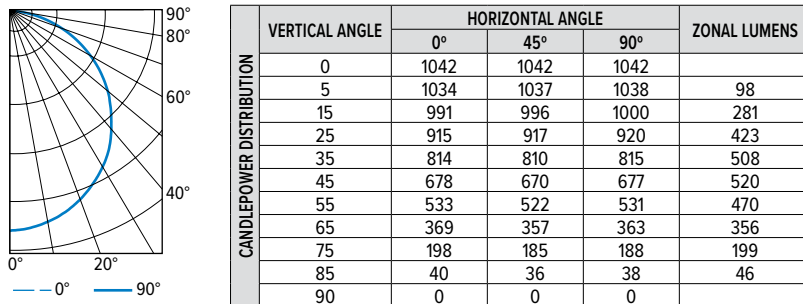
PHOTOMETRY

AP-22-L30/835 Total Luminaire Output: 3030 lumens; 25.4 Watts | Efficacy: 119 lm/W | 80 CRI; 3500K CCT



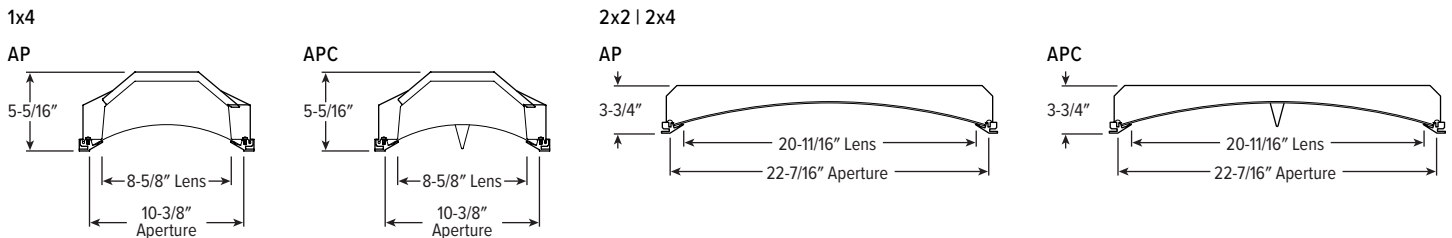
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1340	44
	0 - 60	2372	78
	0 - 90	3030	100
	0 - 180	3030	100

APC-22-L30/840 Total Luminaire Output: 2902 lumens; 25.4 Watts | Efficacy: 114 lm/W | 80 CRI; 4000K CCT



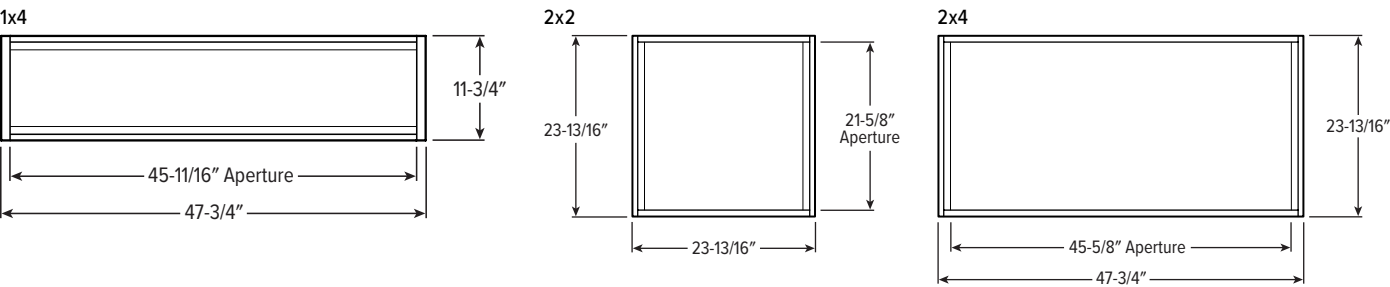
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1310	45
	0 - 60	2300	79
	0 - 90	2902	100
	0 - 180	2902	100

CROSS SECTIONS

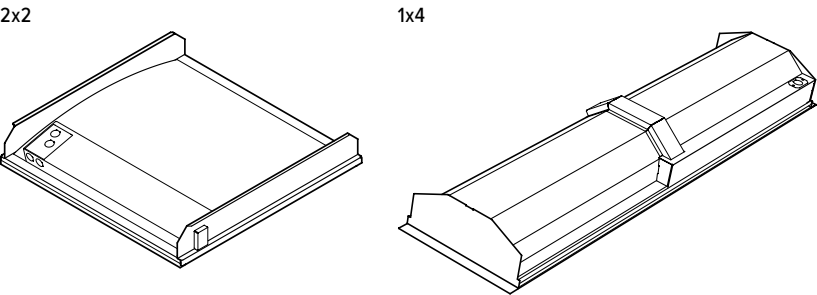


FIXTURE DETAILS

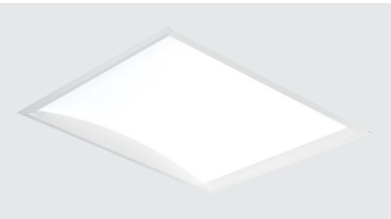
BOTTOM VIEW



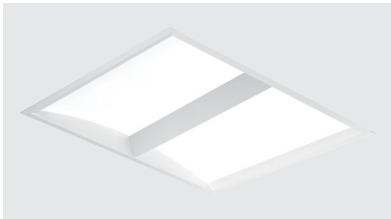
ISOMETRIC BACK VIEW



AP SERIES



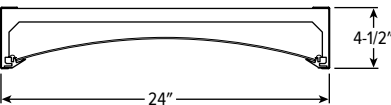
APC SERIES



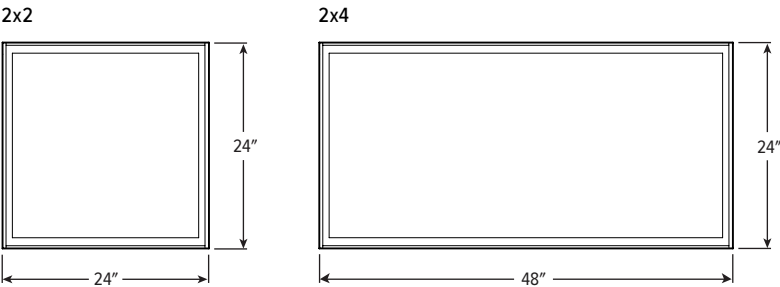
SURFACE MOUNT KIT DETAILS



CROSS SECTION



BACK VIEWS



FLEXIBLE WHIP OPTIONS

All Williams recessed troffers are available with a flexible metallic wiring harness, factory-attached and hard-wired to the luminaire.

Straight connectors are a snap-in type. Consult factory for wiring harness utilizing connectors secured by lock nuts, optional flex size, lengths, and other wire sizes or circuitry. Three-wire flex utilizes black, white, and green wire. Four-wire flex utilizes black, white, red, and green wire. Adding an emergency option requires an additional wire.

Williams fixtures are UL listed to provide factory-installation of several manufacturers' modular wiring devices, consult factory for availability and ordering information.

DESIGNATION	DESCRIPTION	DRIVER
F338	6' of 3/8" flex, (3) No. 18 AWG wires with (2) straight connectors	DRV, LTE LINE
F348	6' of 3/8" flex, (4) No. 18 AWG wires with (2) straight connectors	DRV + EM, SD40
F334	6' of 3/8" flex, (3) No. 14 AWG wires with (2) straight connectors	DRV, LTE LINE
F344	6' of 3/8" flex, (4) No. 14 AWG wires with (2) straight connectors	SD40
F358	6' of 3/8" flex, (5) No. 18 AWG wires with (2) straight connectors	DIM, DALI
F368Y	6' of 3/8" flex, (6) No. 18 AWG wires with (2) straight connectors	DIM, DIM + EM, DALI

DRYWALL KIT (DFK) OPTIONS

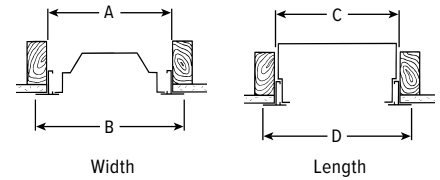
ORDERING INFO

EXAMPLE: DFK - 24 48 W				
SERIES	WIDTH	LENGTH	FINISH	
DFK Drywall kit	12 1'	48 4'	W	White
	24 2'	24 2'	AMW	Anti-microbial white
	24 2'	48 4'		

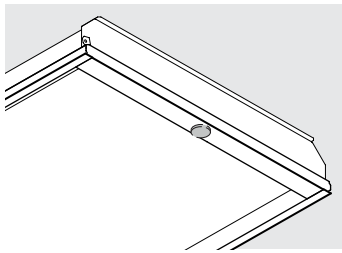
INSTALLATION DIMENSIONS

NOMINAL SIZE	ROUGH-IN		FINISH TRIM SIZE	
	WIDTH (A)	LENGTH (C)	WIDTH (B)	LENGTH (D)
1' x 4'	12-3/8"	48-3/8"	13-5/16"	49-5/16"
2' x 2'	24-3/8"	24-3/8"	25-5/16"	25-5/16"
2' x 4'	24-3/8"	48-3/8"	25-5/16"	49-5/16"

TYPICAL INSTALLATION



SENSOR & NODE PLACEMENT DETAILS



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

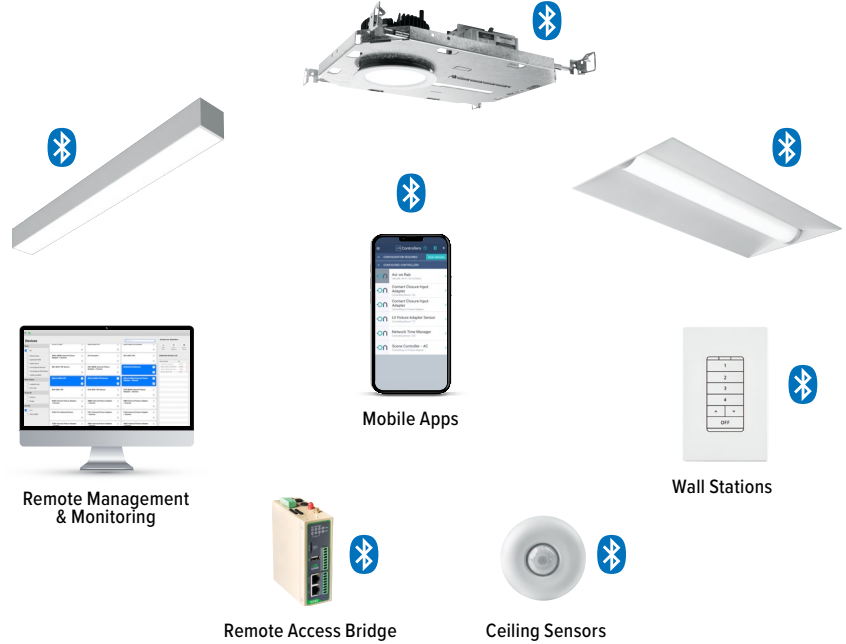


Zone Scanner
Web App



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

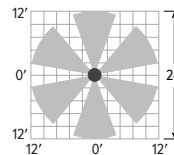
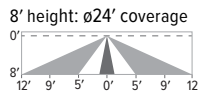
For load controllers and additional accessory info, see hew.com/avi-on

AVI-LVFA-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor. DA Driver only.

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 10'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 50°C
RELATIVE HUMIDITY	10 to 80% non-condensing
IP RATING	IP20
MANUFACTURER	Avi-On

SENSOR COVERAGE PATTERNS

Side View



SENSOR DETAIL



Dimensions: 13/16" x 2-1/4"



ADDITIONAL CONTROL OPTIONS

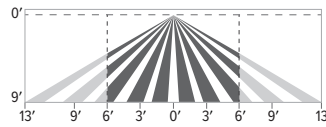
AWNS Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

SPECIFICATIONS	
TYPE	Radio Frequency
MOUNTING HEIGHT	8' – 12'
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	Clear Connect gateway – Type X with app (iOS or Android)
MANUFACTURER	Lutron



SENSOR COVERAGE PATTERNS

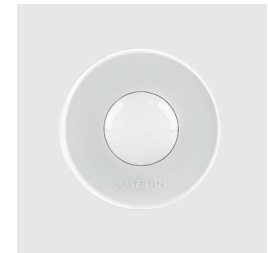
9' height: ø12' coverage



Motion Sensor Coverage

CEILING HEIGHT	COVERAGE AREA (SQ FT)
8'	114
9'	144
10'	178
12'	256

SENSOR DETAIL



Dimensions: ø1-1/8"

ATHENA CONTROL OPTIONS

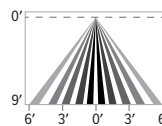
CATALOG NUMBER	DESCRIPTION
AWNDR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power.
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power.
AWNDR-BL	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish.
AWNS-BL	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish.

VDO Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC). DSR or LDE Drivers only. LDE drivers require driver interface

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 12'
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)
MANUFACTURER	Lutron

SENSOR COVERAGE PATTERNS

9' height: ø12' coverage



Motion Sensor Coverage

CEILING HEIGHT	COVERAGE AREA (SQ FT)
8'	114
9'	144
10'	178
12'	256

SENSOR DETAIL



Dimensions: 2-11/16" x 1"

VIVE CONTROL OPTIONS

CATALOG NUMBER	DESCRIPTION
VRF	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), for use with sensor-ready driver
VDO	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), for use with sensor-ready driver
VRF/DBI	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver
VDO/DBI	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver

ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at hew.com/product-builder

CATALOG NUMBER	DESCRIPTION
DRV	Driver without external dimming wires prewired for non-dimming applications
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications
DIM1	1% driver with external dimming wires prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power, without external dimming wires
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming driver

