SDI5 LED Suspended Direct/Indirect

Williams®

1-5/8″
8″
Shown with DMA

CATALOG #: _____

TYPE: _____

PROJECT: _____

FEATURES

- Timeless architectural design blends seamlessly into the space
- Multiple distributions elevate the SDI5 to a functional design that complements any environment
- Maximize energy savings with efficacies up to 148 lm/W
- Spacing ratio up to 2.4 evenly illuminates the environment with fewer luminaires
- Stand-alone and continuous row mounting
- Self-aligning joining method ensures straight, continuous rows
- Wireless in-fixture control solutions available
- Available with BIOS® SkyBlue® technology to support proper daytime circadian stimulus
- Made Right Here® in the USA

BUY AMERICAN ACT COMPLIANT

SPECIFICATIONS

- **HOUSING** – 20-gauge die-formed C.R.S. spot welded construction.
- **END CAPS** – 16-gauge C.R.S. with spot welded inner light stop, fastened with hidden machine screw fastener.
- **SHIELDIING** – Diffuse acrylic or louver downlight options with clear acrylic uplight lens.
- **REFLECTIVE SURFACES** – 92% minimum average reflective white polyester powder coat on interior components.
- **FINISH** – Textured matte white polyester TGIC 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. L70 > 50,000 hours.
- **MOUNTING** – Suspended. 1/16″ diameter adjustable steel leveling aircraft cable with two-point "Y" connector and mounting hardware provided. Fixtures join using (2) 8-32 machine screws and hex nuts.
- **LISTINGS** –
  - cCSAus certified as luminaire suitable for dry or 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.

bios ILLUMINATED

Available with BIOS® consult factory

ORDERING EXAMPLE: SDI5 - 4 - L27/835 - DMA - 70U/30D - ACY/D48 - OPTIONS - CONTROL/DRV - 120

ORDERING INFO

SERIES	LENGTH	LUMENS [1]	CRI	CCT	SHIELDING [2]	
SDI5	**Stand-alone** – 4′ & 8′ nominal lengths, fixture ships assembled. Example: **4** = 4′	**L16** 1,600lm	**8** 80	**27** 2700K	DMA	Diffuse matte acrylic lens, .080″ thick (standard)
	Row-mount – Lengths specified in 4′ increments Example: **12** = 12′	**L27** 2,700lm	**9** 90	**30** 3000K	144W/DMA	7/16″ deep, 44-cell cross-blade louver with diffuse matte acrylic overlay
				35 3500K		
	PRODUCT BUILDER			**40** 4000K		
	Simplify ordering & layout design with the Williams Linear Product Builder at hew.com/product-builder			**50** 5000K		

DISTRIBUTION [3]		MOUNTING (EXAMPLE: ACY/D48) [4]			OPTIONS [5]	
100U	100% uplight	**Prefix**	**Type**	**Length**	**EM/10WLP**	Low-profile 10-watt LED emergency battery
90U/10D	90% uplight, 10% downlight	ACY/	**D** 1″ grid & hardpan	**24** 24″	**(L__)**	Additional lower lumen packages available. Example: 2,000 lumens = SDI5-4-L27/835-**(L20)** [6]
70U/30D	70% uplight, 30% downlight		**N** 9/16″ grid	**48** 48″		
50U/50D	50% uplight, 50% downlight		**S** Slot grid	**96** 96″		
30U/70D	30% uplight, 70% downlight				**FA**	Frosted acrylic uplight lens recommended for use in suspension heights less than 24″ [7]
10U/90D	10% uplight, 90% downlight					
100D	100% downlight					

CONTROL [8]		DRIVER		VOLTAGE	
See page 6 for ADDITIONAL CONTROL OPTIONS.		*See page 6 for ADDITIONAL DRIVER OPTIONS.*		**120** 120V	
–	None	**DIM**	Driver with external dimming wires	**277** 277V	
AVI-LVFA	Avi-on wireless fixture control [9]	**DRV**	Driver without external dimming wires	**UNV** 120-277V	
AVI-LVFA-CS2-PIR	Avi-on wireless fixture control with PIR motion and daylight sensor [10]	**DA**	Driver with 12V auxiliary power, without external dimming wires [13]	**347** 347V [15]	
AWNR	Lutron Athena wireless node integral fixture control, RF only [11]	**DSR**	Sensor-ready driver without external dimming wires (D4i DALI-2) [14]		
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing [12]				

NOTES

1. Lumens per foot output based on DMA shielding, 80 CRI/3500K CCT. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
2. See page 3 for FIXTURE DETAILS.
3. Nominal distributions shown. Refer to photometric tests for exact distributions.
4. See page 3 for MOUNTING DETAILS.
5. See page 3 for FINISH OPTIONS. Custom colors available upon request.
6. (L5) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
7. Available with 100U, 90U/10D, 70U/30D only.
8. See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 4 for SENSOR & NODE PLACEMENT DETAILS.
9. DA Driver only.
10. DA Driver only.
11. DA and DSR Drivers only.
12. DA and DSR Drivers only.
13. Avi-on and Lutron Athena Controls only.
14. Lutron Vive and Athena Controls only.
15. Not available with EM batteries, DA, or DSR drivers.

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FIXTURE PERFORMANCE DATA

LED PACKAGE		DISTRIBUTION	DELIVERED LUMENS		TOTAL DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
			UPLIGHT	DOWNLIGHT			
4'	L16	100U	6292	0	6292	46.0	137
		90U/10D	6142	682	6824	46.0	148
		70U/30D	4656	1995	6651	46.0	145
		50U/50D	3222	3222	6445	46.0	140
		30U/70D	1856	4330	6185	46.0	134
		10U/90D	583	5250	5833	43.0	136
		100D	0	5720	5720	43.0	133
	L27	100U	10252	0	10252	78.0	131
		90U/10D	10007	1112	11119	78.0	143
		70U/30D	7586	3251	10837	78.0	139
		50U/50D	5251	5251	10501	78.0	135
		30U/70D	3024	7055	10078	78.0	129
		10U/90D	950	8554	9504	76.0	125
		100D	0	9320	9320	76.0	123
8'	L16	100U	12584	0	12584	92.0	137
		90U/10D	12283	1365	13648	92.0	148
		70U/30D	9311	3991	13302	92.0	145
		50U/50D	6445	6445	12890	92.0	140
		30U/70D	3711	8660	12371	92.0	134
		10U/90D	1167	10499	11666	86.0	136
		100D	0	11440	11440	86.0	133
	L27	100U	20504	0	20504	156.0	131
		90U/10D	20014	2224	22238	156.0	143
		70U/30D	15172	6502	21674	156.0	139
		50U/50D	10501	10501	21002	156.0	135
		30U/70D	6047	14110	20157	156.0	129
		10U/90D	1901	17107	19008	152.0	125
		100D	0	18640	18640	152.0	123

MULTIPLIER TABLES

COLOR TEMPERATURE		
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.97
	3000K	0.99
	3500K	1.00
	4000K	1.03
	5000K	1.06
90 CRI	2700K	0.80
	3000K	0.82
	3500K	0.83
	4000K	0.86
	5000K	0.89

LENS	CONVERSION FACTOR
DMA	1.00
144W/DMA	0.95
FA	0.97

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25ºC ambient temperature.
- Wattage shown is average for 120V through 277V input.
- Results based on 3500K, 80 CRI, 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

100U | 90U/10D | 70U/30D | 50U/50D | 30U/70D | 10U/90D | 100D
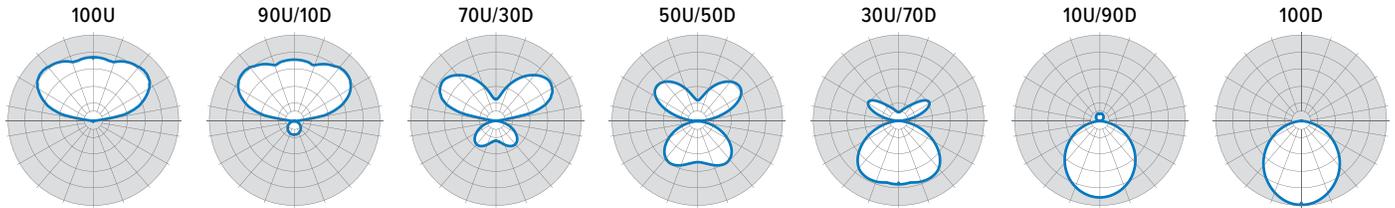
SDI5-4-L27/835-DMA-70U/30D-DRV-UNV Total Luminaire Output: 10837 lumens; 78 Watts | Efficacy: 139 lm/W | 80 CRI; 3500K CCT
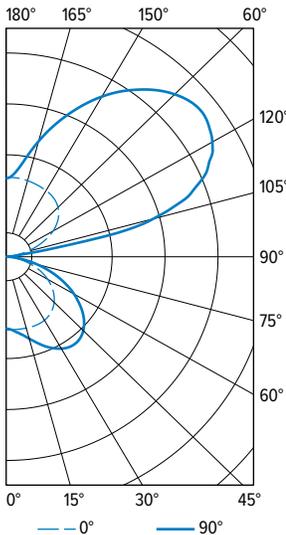
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	726	726	726	
5	735	733	742	71
15	742	789	850	226
25	744	872	1007	405
35	720	913	1096	570
45	653	867	1053	663
55	540	735	880	643
65	387	522	625	507
75	202	273	324	284
85	35	52	62	64
90	0	5	6	
95	34	66	68	146
105	214	1147	1473	1048
115	432	1659	2154	1495
125	601	1863	2371	1521
135	706	1806	2305	1293
145	756	1598	2036	946
155	776	1315	1647	587
165	791	998	1194	287
175	798	808	831	80
180	790	790	790	

	ZONE	LUMENS	% FIXTURE
LUMEN SUMMARY	0 - 30	702	7
	0 - 40	1272	12
	0 - 60	2578	24
	0 - 90	3433	32
	90 - 120	2689	25
	90 - 150	6450	60
	90 - 180	7404	68
	0 - 180	10837	100

CANDLEPOWER DISTRIBUTION

— — 0°   —— 90°

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CROSS SECTIONS

LENS (DMA)

1-5/8″

8″
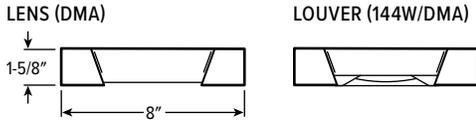
LOUVER (144W/DMA)

FIXTURE DETAILS

BACKVIEW

Lens (DMA)

8″

4′ = 48″

8″

8′ = 96″
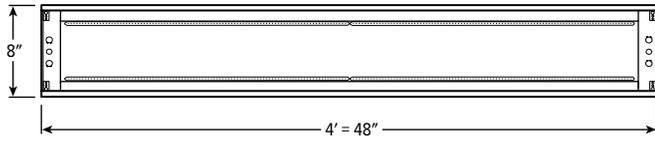
Louver (144W/DMA)
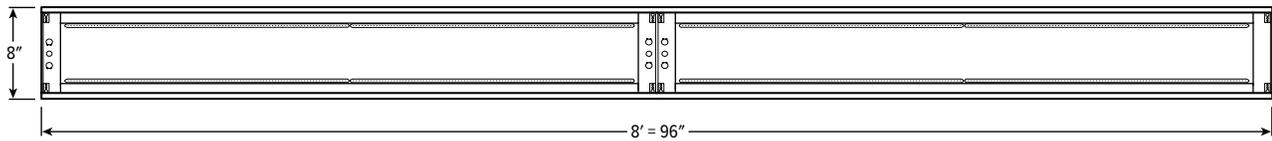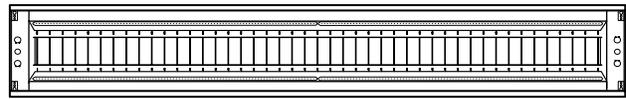
DMA
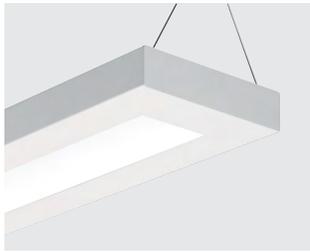
144W/DMA
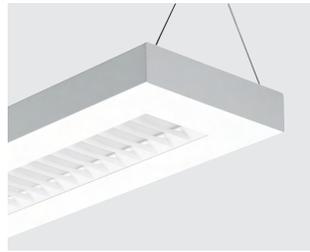
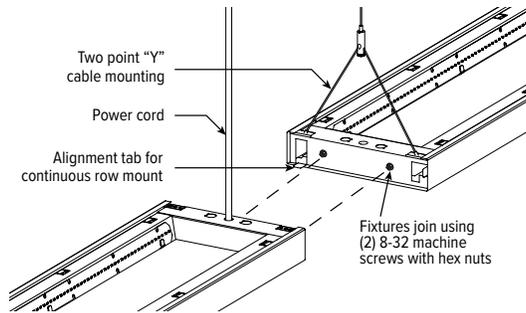## MOUNTING DETAILS

STANDARD HARDWARE (Grid and Hardpan)

Power End/Stand-Alone

Row Mount Support
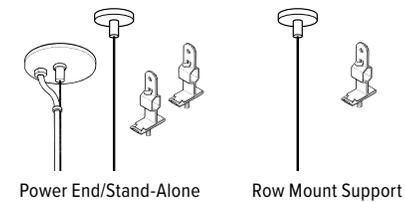
Notes:

- Fixtures are provided with adjustable length aircraft cables with two-point "Y" connectors and mounting hardware, must specify.

- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.

- The feeder kits are standard with a 5″ canopy to cover the junction box and a 2″ canopy at the non-feed point. No J-box is required at non-feed points.

CONTINUOUS ROW

Two point "Y" cable mounting

Power cord

Alignment tab for continuous row mount

Fixtures join using (2) 8-32 machine screws with hex nuts

For continuous row mount, suspend fixture using aircraft cable at every fixture intersection and at both ends. Make the electrical connections using the plug-in wiring harness (provided). Install end plates on each end of the continuous row. Depending on installation method, cable mounting may require additional counter-weights due to side-mounted driver.

FINISH OPTIONS

WHITE	BLACK	BRONZE	NICKEL	SILVER	ALUM

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.

SDI5

SENSOR & NODE PLACEMENT DETAILS
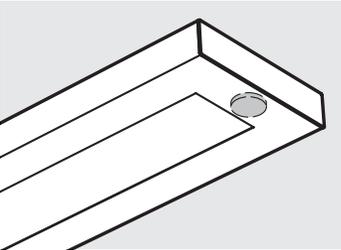
SEE NEXT PAGE FOR CONTROL DETAILS.

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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

Mobile Apps

Remote Management & Monitoring

Wall Stations

Remote Access Bridge

Ceiling Sensors
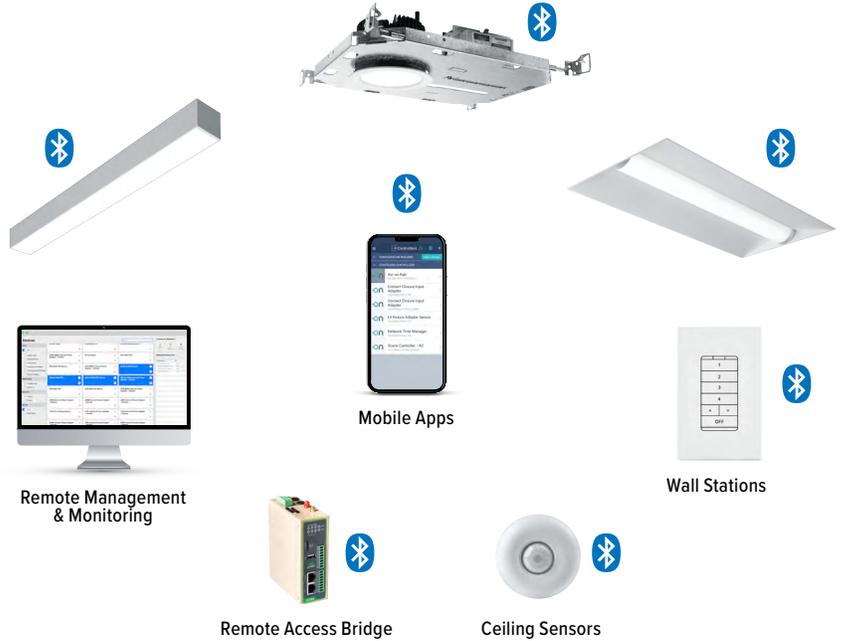
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ACCESSORIES

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

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

8' height: ø24' coverage
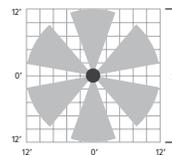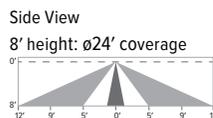
SENSOR DETAIL

Dimensions: 13/16" x 2-1/4"
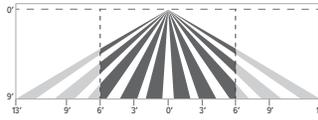
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ADDITIONAL CONTROL OPTIONS

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
	⁂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
AWNR	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
AWNR-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
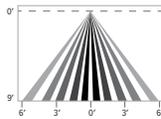
9′ height: ø12′ coverage

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 prewired for non-dimming applications
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, 120V only)
DIM TRC	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power
DSR	Sensor-ready driver (D4i DALI-2)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver

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