

CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_



**FEATURES**

- Transparent lensed door provides a barrier between the room and the diffuser to discourage vandals and minimize contaminants
- Double or triple gasketing options available
- Ribbed acrylic diffuser shields LEDs from direct view
- Fully enclosed spring-loaded cam latches allow years of hassle-free maintenance
- T-slot steel hinge allows reversible hinging and latching and ensures positive retention when door is opened
- Optional anti-microbial white finish available for use in healthcare applications
- Maximize energy savings with efficacies as high as 142 lm/w
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

**SPECIFICATIONS**

- HOUSING – 22-gauge die-formed C.R.S.
- DOOR FRAME & LENS – Transparent acrylic lens, .080” thick, mounted in .050” thick extruded aluminum door frame, flat with mitered corners.
- REFLECTOR – Precision die-formed C.R.S. with highly reflective, non-glare matte white polyester powder coated finish.
- SHIELDING – .125” frosted ribbed acrylic diffuser.
- FINISH – 92% minimum average reflective 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. L70 at 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. Drywall flange type available.
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - City of Chicago Environmental Air approved when specified with CP option.
  - Complies with the Buy American Act and other federal regulations. Request certification at [hew.com/baa](http://hew.com/baa).
- WARRANTY – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

**ORDERING EXAMPLE: DILG - S24 - L64/835 - FAD - OPTIONS - CONTROL/DIM - UNV**

**ORDERING INFO**

SERIES	CEILING TYPE	FIXTURE STYLE	WIDTH	LENGTH	LUMENS <sup>[1]</sup>	CRI	CCT
DIL	G 15/16” or 1” grid F Flange <sup>[2]</sup>	S Full door frame, no reveal	1 1’ <sup>[3]</sup>	2 2’	<b>1x4</b>	8 80	27 2700K
			2 2’	4 4’	L30 3,000lm		9 90 <sup>[4]</sup>
				L48 4,800lm		35 3500K	
				<b>2x2</b>		40 4000K	
				L25 2,500lm		50 5000K	
				L32 3,200lm			
				L45 4,500lm			
				<b>2x4</b>			
				L51 5,100lm			
				L64 6,400lm			
		L89 8,900lm					

DOOR FRAME	SHIELDING	OPTIONS <sup>[5]</sup>
F Flat aluminum	AD Acrylic WPR White perforated round <sup>[6]</sup>	EM/10WLP Low-profile 10-watt emergency battery EQCLIPS Earthquake clips <sup>[7]</sup> DG Double gasket <sup>[8]</sup> TG Triple gasket <sup>[9]</sup> (L_) Additional lower lumen packages available. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package. <b>Example: 7,500 nominal lumens = DILG-S24-L89/835-(L75)</b> CP Chicago plenum (CCEA) AMW Anti-microbial white finish

CONTROL <sup>[10]</sup>	DRIVER	VOLTAGE
See page 5 for <b>ADDITIONAL CONTROL OPTIONS</b> .	See page 5 for <b>ADDITIONAL DRIVER OPTIONS</b> .	120 120V 277 277V UNV 120-277V 347 347V <sup>[17]</sup>
– None	DIM Driver with external dimming wires	
AVI-LVFA Avi-on wireless fixture control <sup>[11]</sup>	DRV Driver without external dimming wires	
AVI-LVFA-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor <sup>[12]</sup>	DA Driver with 12V auxiliary power, without external dimming wires <sup>[15]</sup>	
AWNRR Lutron Athena wireless node integral fixture control, RF only <sup>[13]</sup>	DSR Sensor-ready driver without external dimming wires (D4i DALI-2) <sup>[16]</sup>	
AWNS Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing <sup>[14]</sup>		

**NOTES**

- 1 Lumen output based on AD Shielding, 80 CRI/3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
- 2 See page 3 for F CEILING TYPE INSTALLATION.
- 3 4’ length only.
- 4 Extended lead times may apply. Consult factory for availability.
- 5 See Technical Info for **DRYWALL KIT** and **POWER ENTRY** details.
- 6 2x2 and 2x4 only.
- 7 4 per fixture. Optional for 1” grid installations. Required for 9/16” grid mounting. Not available with F Ceiling Type.
- 8 See page 3 for GASKETING DETAILS.
- 9 Field-installed. See page 3 for GASKETING DETAILS.
- 10 See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 3 for SENSOR & NODE PLACEMENT DETAILS.
- 11 DA Driver only.
- 12 DA Driver only.
- 13 DA and DSR Drivers only.
- 14 DA and DSR Drivers only.
- 15 Avi-on and Lutron Athena Controls only.
- 16 Lutron Athena Controls only.
- 17 Not available with EM batteries, DA, or DSR drivers.



## FIXTURE PERFORMANCE DATA

	LUMEN PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (LM/W)
1x4	L30	3081	27.6	112
	L48	4812	41.1	117
2x2	L25	2614	19.6	133
	L32	3202	23.9	134
	L45	4405	31.2	141
2x4	L51	5228	37.7	139
	L64	6515	48.0	136
	L89	8903	62.8	142

- Photometrics tested in accordance with IESNA LM-79. Results based on AD Shielding, 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.

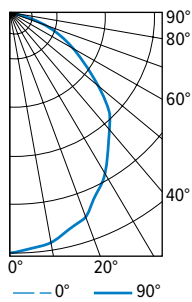
## MULTIPLIER TABLES

	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
2x2	AD	1.00
	WPR	0.75
2x4	AD	1.00
	WPR	0.79

## PHOTOMETRY

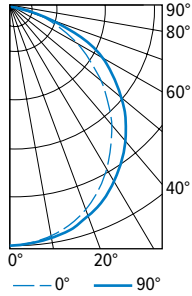
**DILG-S14-L48/835** Total Luminaire Output: 4812 lumens; 41.1 Watts | Efficacy: 117.1 lm/W | 80 CRI; 3500K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	2092	2092	2092	
5	2057	2056	2056	196
15	1950	1957	1970	556
25	1750	1766	1775	820
35	1488	1519	1538	952
45	1215	1270	1286	954
55	808	860	761	731
65	468	455	321	421
75	173	135	98	157
85	22	19	19	27
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1571	33
	0 - 40	2523	52
	0 - 60	4207	87
	0 - 90	4812	100
	0 - 180	4812	100

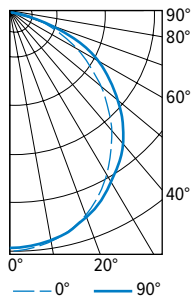
**DILG-S22-L45/835-FAD** Total Luminaire Output: 4405 lumens; 31.2 Watts | Efficacy: 141 lm/W | 80 CRI; 3500K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1729	1729	1729	
5	1720	1716	1719	163
15	1635	1648	1665	465
25	1473	1507	1545	694
35	1245	1304	1369	816
45	980	1058	1150	818
55	698	781	903	706
65	422	500	595	495
75	176	211	214	217
85	20	25	19	33
90	2	3	2	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2137	49
	0 - 60	3660	83
	0 - 90	4405	100
	0 - 180	4405	100

**DILG-S24-L89/835-FAD** Total Luminaire Output: 8903 lumens; 62.8 Watts | Efficacy: 142 lm/W | 80 CRI; 3500K CCT



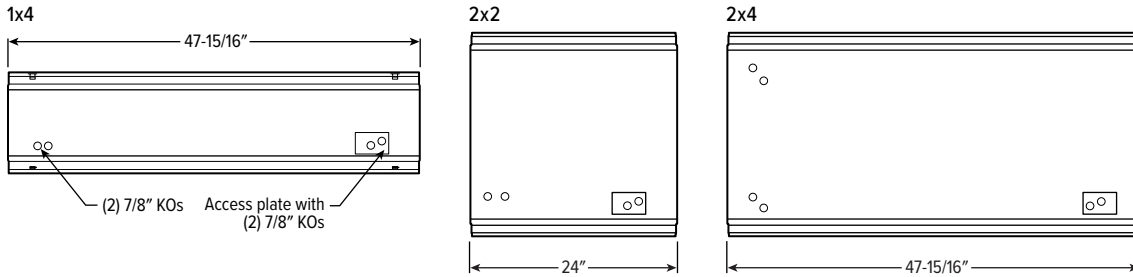
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	3439	3439	3439	
5	3470	3407	3405	325
15	3289	3258	3280	922
25	2960	2970	3030	1373
35	2531	2598	2703	1629
45	2013	2133	2257	1644
55	1450	1590	1765	1433
65	897	1049	1179	1028
75	389	442	449	471
85	51	56	56	77
90	3	3	3	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	4249	48
	0 - 60	7326	82
	0 - 90	8903	100
	0 - 180	8903	100

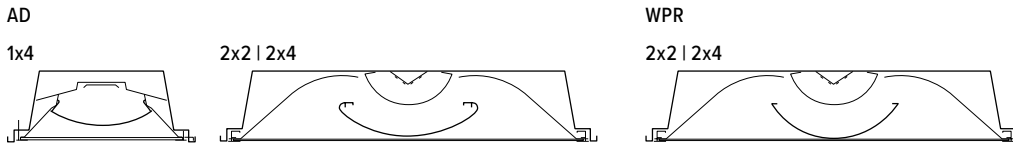


# DIL LED Recessed Direct/Indirect Lensed

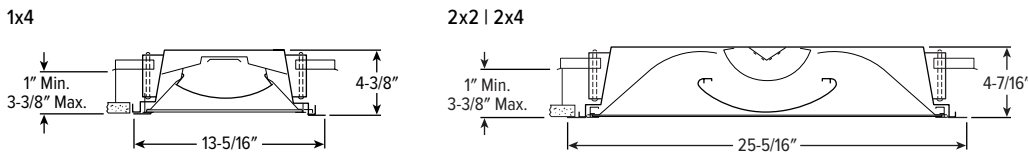
## FIXTURE DETAILS



## CROSS SECTIONS



## F CEILING TYPE INSTALLATION



Note: Maximum recommended ceiling opening is 12-3/8" x 48-3/8". For continuous row mounting, add 49-5/16" for each additional fixture to obtain ceiling opening. 1-5/16" between end plates.

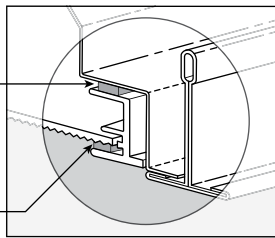
Note: Maximum recommended ceiling opening is 24-3/8" x 24-3/8" for 2'x2' and 24-3/8" x 48-3/8" for 2'x4'. For continuous row mounting, add 49-5/16" for each additional fixture to obtain ceiling opening. 1-5/16" between end plates.

## GASKETING DETAILS

### DOUBLE GASKETING (DG OPTION)

First gasketing factory-installed between door frame and luminaire housing prevents light leak and reduces dust ingress.

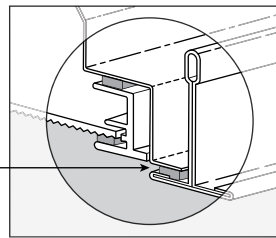
Second gasketing factory-installed between door frame and lens reduces dust and bug contaminants.



### TRIPLE GASKETING (TG OPTION)

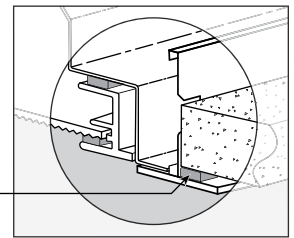
T-bar

Third gasketing field installed between bottom perimeter of fixture and T-bar ceiling seals plenum dust from the room.

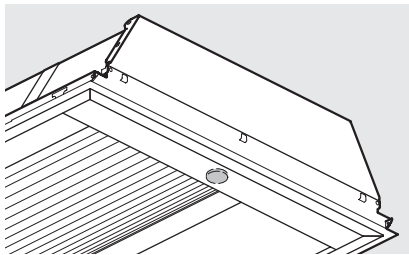


Drywall

Between bottom perimeter of fixture and hardpan ceiling.



## SENSOR & NODE PLACEMENT DETAILS



## 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

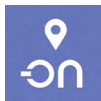
- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

### 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

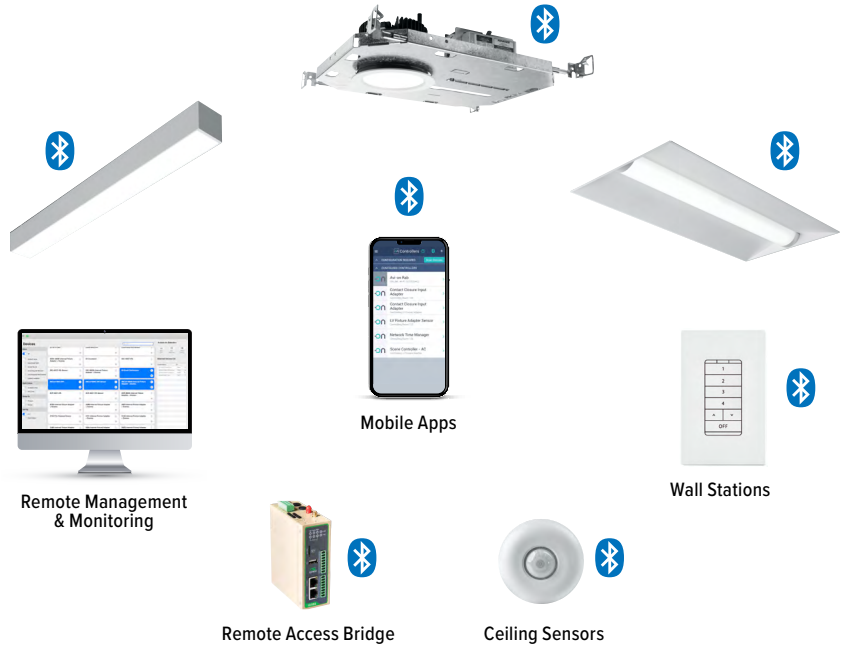


Zone Scanner Web App



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
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](http://hew.com/avi-on)

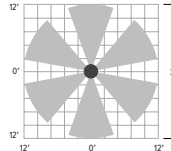
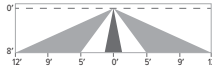
### AVI-LVFA-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor. DA Driver only.

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"



## ADDITIONAL CONTROL OPTIONS

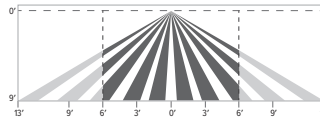
**AWNS** Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

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

## ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at [hew.com/product-builder](http://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

