

CATALOG #: _ TYPF. PROJECT: _



FEATURES

- Frosted prismatic lens provides pleasing diffused light without LED pixelation
- Fully-enclosed spring-loaded cam latches provide hassle-free room side maintenance
- Triple gasketing and inverted lens options for smooth surface room side
- T-slot steel hinge ensures positive retention when door is opened
- Back reinforcement ribs and rolled-edge channel adds superior strength
- Integral T-bar clips quickly secure fixture to structure. (2x2 and 2x4 only)
- Maximize energy savings with efficacies as high as to 139 lm/W
- Rated for direct contact with insulation
- Fully gasketed door protects against contaminants
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING 22-gauge die-formed C.R.S.
- DOOR FRAME 20-gauge C.R.S. or .050" extruded aluminum, flat or regress, with mitered corners. T-slot steel hinge allows reversible hinging and latching. Fully enclosed spring-loaded cam latches.
- SHIELDING Frosted acrylic, pattern #12, .125" thick.
- 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 board. See fixture performance data for lumen maintenance. 25°C maximum ambient operating temperature.
- 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.
 - IC-rated for direct contact with insulation.
 - 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.
- WARRANTY 5-year limited warranty, see hew.com/warranty.

ORDERING EXAMPLE: 50 G - S 2 4 - L130/835 - S - AF12125 - OPTIONS - CONTROL/DIM - UNV

ORDERING INFO

SERIES	CEILING TYPE	FIXTURE STYLE	WIDTH	LENGTH	LUMENS [1]	CRI
50	G 15/16" or 1" grid F Flange ^[2]	S Full door frame- no reveal	1 1' ^[3] 2 2'	2 2' [4] 4 4'	L45 4,500lm	8 80 9 90 [5]

CCT	DOOR FRAME	SHIELDII	NG	OPTIONS	2 [e]
27 2700K 30 3000K 35 3500K 40 4000K 50 5000K	S White flat steel F White flat aluminum R White regress aluminum SB Black flat steel FB Black flat aluminum RB Black regress aluminum	AF12125 AF19156	Frosted acrylic, pattern #12, .125" thick Frosted acrylic, pattern #19, .156" thick	EM/10W EM/12W DG TG EQCLIPS (L)	10-watt emergency battery 12-watt emergency battery [7] Double gasket [8] Triple gasket [9] Earthquake clips [10] Additional lower lumen packages available. [11] Example: 8,500 nominal lumens = 50G-524-L90/850-(L85).
				WET	UL/CUL listed for wet location under covered ceiling. [12]
				CP	Chicago Plenum (CCEA)
				TP	Tamper-resistant screws [13]

CONTROL [14]

AWNR

AWNS

See page 5 for ADDITIONAL CONTROL OPTIONS.

AVI-LVFA AVI-LVFA-CS2-PIR

None Avi-on wireless fixture control [15] Avi-on wireless fixture control with PIR motion and daylight sensor [16] Lutron Athena wireless node integral fixture control, RF only [17]

Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing [18]

DRIVER

See page 5 for ADDITIONAL DRIVER OPTIONS.

DIM Driver with external dimming wires **DRV** Driver without external dimming wires

Driver with 12V auxiliary power, without external dimming wires [19]

Sensor-ready driver without external dimming wires (D4i DALI-2) [20]

VOLTAGE 120 120V

277 277V **UNV** 120-277V 347 347V [21]

ACCESSORIES

TPTG TOOL Tamper-resistant tool for tri-groove screws. [22]

NOTES

- Lumen output based on AF12125 Shielding, 80 CRI/3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA, Additional lumen package available, see Options.
 See page 2 for F CEILING TYPE
 INSTALLATION.
- 4' length only.
- 2' width only. Extended lead times may apply. Consult
- factory for availability.
 See page 3 for FLEXIBLE WHIP OPTIONS.
- Not available when CEC regulations are required.
- Flat aluminum door only. See page 3 for GASKETING DETAILS.
- Flat aluminum door only. Field-installed. See page 3 for GASKETING DETAILS.
- 4 per fixture. Optional for 1" grid installations. Required for 9/16" grid mounting. Not available with F Ceiling
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.

 12 Flat aluminum door only, TG option
- included. ¹³ Flat aluminum door only. Requires a tamper-resistant tool, see Accessories.
- See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 3 for SENSOR & NODE PLACEMENT DETAILS.
- DA Driver only.
- DA Driver only.

 DA and DSR Drivers only. DA and DSR Drivers only.
- Avi-on and Lutron Athena Controls only.
 Lutron Athena Controls only.
- Not available with EM batteries, DA, or DSR drivers.
- 22 Tamper-resistant tool must be ordered separately. Please specify quantity required per project.



FIXTURE PERFORMANCE DATA

	LED PACKAGE DELIVERED LUM	DELIVERED LUMENS	WATTAGE	FFFICACY (1 /M)	LUMEN MAINTENANCE [1]		
	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)	L80	L85	L90
	L27	2637	20.1	131	>72,000	>72,000	50,000
1×4	L45	4311	33.7	128	>72,000	>72,000	50,000
	L65	6563	55.7	118	>72,000	58,000	36,000
	L26	2630	21.3	123	>72,000	58,000	36,000
2×2	L43	4363	33.7	129	>72,000	>72,000	50,000
	L65	6513	54.4	120	>72,000	>72,000	50,000
	L33	3469	24.9	139	>72,000	>72,000	50,000
2×4	L59	6231	48.0	130	>72,000	58,000	36,000
a	L90	9106	67.1	136	>72,000	>72,000	50,000
	L130	13116	101.2	130	>72,000	>72,000	50,000

- Predicted lumen maintenance calculated in accordance with IES TM-21 per Energy Star (R) TM-21 Calculator rev. 02.08.16.
- Photometrics tested in accordance with IESNA LM-79. Results based on AF12125 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 TABLE

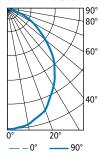
	COLOR TEMPERATURE				
	CCT	CONVERSION FACTOR			
	2700K	0.97			
=	3000K	0.99			
80 CRI	3500K	1.00			
œ	4000K	1.03			
	5000K	1.06			

	2700K	0.80
=	3000K	0.82
90 CRI	3500K	0.83
6	4000K	0.86
	5000K	0.89

LENS	C	ONVERSION FACTOR
AF1212	5	1.00
AF1915	6	0.98

PHOTOMETRY

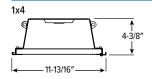
50G-S24-L130/835-SAF12125-DIM-UNV Total Luminaire Output: 13116 lumens; 101.2 Watts | Efficacy: 129.6 lm/W | 80 CRI; 3500K CCT

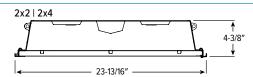


	VERTICAL ANGLE	НО	ZONAL LUMENS		
	VERTICAL ANGLE	0°	45°	90°	ZUNAL LUMENS
8 0	0	5906	5906	5906	
DISTRIBUTION	5	5848	5839	5837	555
ᆵ	15	5508	5508	5517	1559
<u> </u>	25	4856	4865	4872	2249
	35	4025	4015	4031	2512
≶	45	3124	3080	3037	2356
CANDLEPOWER	55	2091	2021	1959	1810
ᅙ	65	1239	1165	1149	1183
S	75	615	589	621	659
	85	207	207	244	232
	90	0	0	0	

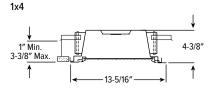
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
Σ	0 - 30	4363	33
S	0 - 40	6875	52
E	0 - 60	11042	84
⋛	0 - 90	13116	100
	0 - 180	13116	100

CROSS SECTIONS

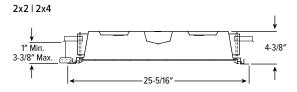




F CEILING TYPE INSTALLATION



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.



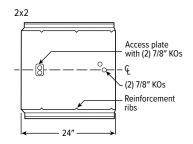
Note: Maximum recommended ceiling opening is $24-3/8" \times 24-3/8"$ for $2'\times2'$ and $24-3/8" \times 48-3/8"$ for $2'\times4'$. For continuous row mounting, add 49-5/16" for each additional fixture to obtain ceiling opening. 1-5/16" between end plates.

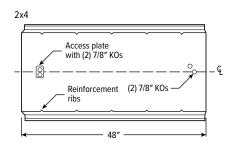


FIXTURE DETAILS

BACK VIEWS

1x4 Access plate with (2) 7/8" KOs (2) 7/8" KOs Reinforcement ribs 48"



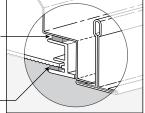


GASKETING DETAILS

DOUBLE GASKETING (DG OPTION)

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

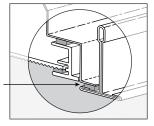
Second gasketing factory-installed between door frame and lens reduces dust and bug contaminants.

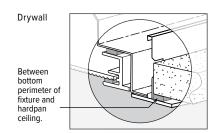


TRIPLE GASKETING (TG OPTION)

T-bar

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





FLEXIBLE WHIP OPTIONS

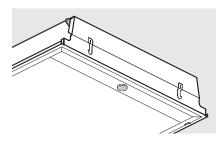
All Williams recessed troffers are available with a flexible metallic wiring harness, factory-attached and hard-wired to the luminaire. See ordering information table.

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	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) #18 AWG wires with (2) straight connectors	DIM, DALI

SENSOR & NODE PLACEMENT DETAILS



SEE NEXT PAGE FOR CONTROL 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

- 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.







Zone Scanner Web App

Commissioning Pro App

SYSTEM COMPONENTS



Remote Management & Monitoring





Mobile Apps



Wall Stations







Ceiling Sensors

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Mobile App **ACCESSORIES**

Commissioning

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

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

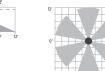
AVI-LVFA-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor. DA Driver only.

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"



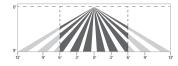
ADDITIONAL CONTROL OPTIONS

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
	%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

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