





3-7/8' 23-13/16" 2x2 | 2x4 Shown

CATALOG #: _ TYPF. PROJECT:











FEATURES

- Low-profile depth for shallow plenum applications
- Diffuse lens provides smooth illumination for visual comfort
- Air return capability reduces number of unsightly ceiling vents for a cleaner appearance
- Surface mount kit preserves continuity
- Maximize energy savings with efficacies as high as 140 lm/W
- Rated for direct contact with insulation
- ISO 5-9 and IP5X rated for cleanroom applications
- Available on QuickShip
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING/REFLECTOR Precision dieformed 22-gauge C.R.S.
- SHIELDING Frosted acrylic.
- FINISH Highly reflective 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. See fixture performance data for lumen maintenance.
- 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.
 - IP5X rated.
 - ISO 5-9 rated.
 - 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 warranty, see hew com/warranty

ORDERING EXAMPLE: LT - 24 - L52/835 - AF - OPTIONS - CONTROL/DIM - UNV

ORDERING INFO

SERIES	WIDTH	LENGTH	LUMENS [1]		CRI	CCT	SHIELDING
LT Static	1 1′	2 2'	1x2	2x2	8 80	27 2700K	AF Frosted acrylic
LT-AR Air Return [2]	2 2'	4 4'	L20 2,000lm	L27 2,700lm	9 90 [3]	30 3000K	
			L31 3,100lm	L39 3,900lm		35 3500K	
			L40 4,000lm	L49 4,900lm		40 4000K	
			1x4	L61 6,100lm		50 5000K	
			L28 2,800lm	2x4			
			L47 4,700lm	L40 4,000lm			
			L63 6,300lm	L52 5,200lm			
			L90 9,000lm	L64 6,400lm			
				L82 8,200lm			
				L110 11,000lm			

OPTIONS [4]

EM/10W	10-watt emergency battery [6]
EM/10WRM	Remote mount 10-watt emergency battery
EM/12W	12-watt emergency battery [7]
EM/12WRM	Remote mount 12-watt emergency battery [8]
EQCLIPS	Earthquake clips [9]
(L)	Additional lower lumen packages available. [1

Drywall kit, 24" x 48", white

Driver with 12V auxiliary power, without external dimming wires [15]

DSR Sensor-ready driver without external dimming wires (D4i DALI-2) [16]

Example: 5,800 lumens = LT-24-L64/840-(**L58**) Chicago Plenum (CCEA) LT-14-SMK-W Surface mount kit, 1'x4', white LT-22-SMK-W Surface mount kit, 2'x2', white LT-24-SMK-W Surface mount kit, 2'x4', white Drywall kit, 12" x 24", white Drywall kit, 12" x 48", white Drywall kit, 24" x 24", white DFK-1224W DFK-1248W DFK-2424W

See page 7 for ADDITIONAL DRIVER OPTIONS.

DRV Driver without external dimming wires

DIM Driver with external dimming wires

CONTROL [5]

See page 6 for ADDITIONAL CONTROL OPTIONS.

AVI-LVFA AVI-LVFA-CS2-PIR

AWNR **AWNS**

Avi-on wireless fixture control [11] Avi-on wireless fixture control with PIR motion and daylight sensor [12] Lutron Athena wireless node integral fixture control, RF only [13] Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing [14]

VOLTAGE 120 120V

277 277V **UNV** 120-277V 347 347V [17]

QUICKSHIP

DFK-2448W

DRIVER

1x4	2x2	2x4
LT-14-L47/835-AF-QS-DIM-UNV	LT-22-L39/835-AF-QS-DIM-UNV	LT-24-L40/835-AF-QS-DIM-UNV
LT-14-L47/840-AF-QS-DIM-UNV	LT-22-L39/840-AF-QS-DIM-UNV	LT-24-L40/840-AF-QS-DIM-UNV
		LT-24-L64/835-AF-QS-DIM-UNV
		TT-24-I 64/840-AF-QS-DIM-UNV

NOTES

- Lumens based on 80 CRI/3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
- Air return through side slots. Not available with surface mount or CP option. Not qualified for IP5X, ISO 5-9, or IC ratings.
- Extended lead times may apply. Consult
- See page 3 for FLEXIBLE WHIP OPTIONS. See page 3 for SURFACE MOUNT KIT DETAILS. See page 3 for SURFACE MOUNT KIT DETAILS. See Technical Info for Power Entry details.
- See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 4 for SENSOR & NODE PLACEMENT DETAILS
- Not available with 1x2 L40 or 2x2 L61
- lumen packages. Not available when CEC regulations are required.
- Not available when CEC regulations are required.
- 4 per fixture. Optional for 1" grid installations. Required for 9/16" grid mounting; LT is compatible with Williams earthquake clips only.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.

- 11 DA Driver only.
 12 DA Driver only.
 13 DA and DSR Drivers only.
 14 DA and DSR Drivers only.
- DA and DSR Drivers only. Avi-on, Lutron Athena, and ZLSO5 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 (Im/W)		LUMEN MAII	NTENANCE 1	
	LED PACKAGE	DELIVERED LUMENS	WAITAGE	EFFICACT (IIII/W)	L70	L80	L85	L90
	L20	2011	17.4	116	>72,000	62,000	45,000	29,000
2	L31	2985	23.5	127	>72,000	>72,000	63,000	42,000
	L40	3840	32.9	117	>72,000	62,000	45,000	29,000
	L28	2814	21.4	131	>72,000	>72,000	63,000	42,000
*	L47	4677	33.7	139	>72,000	>72,000	63,000	42,000
~	L63	6261	48.5	129	>72,000	>72,000	63,000	42,000
	L90	9060	66.8	136	>72,000	>72,000	63,000	42,000
	L27	2722	21.3	128	>72,000	>72,000	63,000	42,000
2x2	L39	3934	33.1	119	>72,000	62,000	45,000	29,000
n n	L49	4869	38.1	128	>72,000	>72,000	63,000	42,000
	L61	6136	50.9	121	>72,000	62,000	45,000	29,000
	L40	3972	32.0	124	>72,000	62,000	45,000	29,000
	L52	5202	37.2	140	>72,000	>72,000	63,000	42,000
2×4	L64	6396	48.5	132	>72,000	>72,000	63,000	42,000
	L82	8214	64.3	128	>72,000	>72,000	63,000	42,000
	L110	11065	81.8	135	>72,000	>72,000	63,000	42,000

MULTIPLIER TABLE

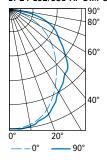
	COLOR TEMPERATURE					
	CCT	CONVERSION FACTOR				
	2700K	0.97				
=	3000K	0.99				
80 CRI	3500K	1.00				
∞	4000K	1.03				
	5000K	1.06				
	27001/	0.00				
	2700K	0.80				
≂	3000K	0.82				
90 CRI	3500K	0.83				
	4000K	0.86				
	5000K	0.89				

- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/3500K CCT, wattage for 120V 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 table to calculate additional options.

Predicted lumen maintenance calculated in accordance with IES TM-21 per Energy Star (R) TM-21 Calculator rev. 02.08.16.

PHOTOMETRY

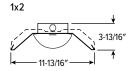
LT-24-L52/835-AF-DIM-UNV Total Luminare Output: 5202 lumens; 37 Watts | Efficacy: 140 lm/W | 80 CRI; 3500K CCT

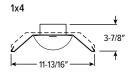


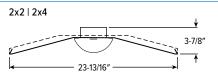
	VERTICAL	НО	HORIZONTAL ANGLE			
	ANGLE	0°	45°	90°	LUMENS	
DISTRIBUTION	0	1851	1851	1851		
5	5	1843	1844	1846	175	
是	15	1745	1761	1779	499	
S	25	1544	1589	1636	730	
2	35	1276	1359	1440	848	
8	45	1055	1193	1315	902	
CANDLEPOWER	55	741	902	1044	802	
ᅙ	65	480	667	817	647	
S	75	241	429	544	438	
	85	70	174	159	161	
	90	0	0	0		

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
Σ	0 - 30	1404	27
S	0 - 40	2252	43
핕	0 - 60	3955	76
≧	0 - 90	5202	100
	0 - 180	5202	100

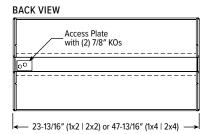
CROSS SECTIONS



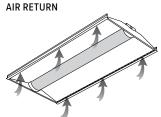




FIXTURE DETAILS







Total Air Return Space: 12-1/2" sq. (1x2 and 2x2) 25-1/2" sq. (1x4 and 2x4)



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.

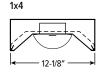
Williams fixtures are UL listed to provide factory-installation of several manufacturers' modular wiring devices. Consult factory for availability and ordering information.

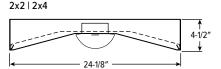
DESIGNATION	DESCRIPTION	DRIVER
F338	6' of 3/8" flex, (3) No. 18 AWG wires with (2) straight connectors	DRV, LTE LINE
F348	6' of 3/8" flex, (4) No. 18 AWG wires with (2) straight connectors	SD40
F334	6' of 3/8" flex, (3) No. 14 AWG wires with (2) straight connectors	DRV, LTE LINE
F344	6' of 3/8" flex,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

SURFACE MOUNT KIT DETAILS



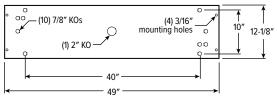
CROSS SECTIONS



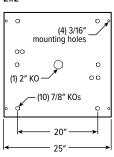


BACK VIEWS

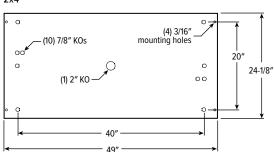




2x2



2x4



DRYWALL KIT (DFK) OPTIONS

ORDERING INFO

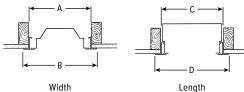
EXAMPLE: DFK - 24 48 W				
SERIES	WIDTH	LENGTH	FINISH	
	12 1′	24 2'		
DFK Drywall kit	12 1′	48 4'	W White	
DEK DIYWali Kit	24 2'	24 2'	AMW Anti-microbial white	
	24 2'	48 4'		

INSTALLATION DIMENSIONS

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

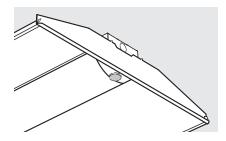
TYPICAL INSTALLATION

Refer to table for dimensions.





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









Remote Access Bridge

Ceiling Sensors

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Avi-on is under license. Other trademarks and trade names are those of their respective owners.

ACCESSORIES

WAL	15	ΤΔΤΙ	INI	NS
WAL	.L J	IAII	v	1

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

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

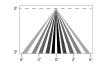
CATALOG NUMBER	DESCRIPTION	
AWNR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power	
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary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

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

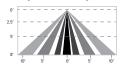
CATALOG NUMBER	DESCRIPTION
VRF	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), for use with sensor-ready driver
VDO	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), for use with sensor-ready driver
VRF/DBI	Lutron Vive integral fixture control, 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

OCCWS-LMFS-601-PP-120/277 Wattstopper PIR motion and daylight sensor with power pack, 120/277V

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 12'
LENS	Up to 300 sq/ft coverage
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 50°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)

SENSOR COVERAGE PATTERNS

8' height: ø20' coverage





SENSOR DETAIL



Dimensions: ø1-5/16"



LV-ZLS05-ILW Leviton PIR motion and daylight sensor. DA Driver only. Adjustable via remote. Optional ZLSOR-RA1 remote controller available. ZLSOR-RA1 Remote controller for ZLS05 sensor. Please specify quantity required per project. Ordered and shipped separately.

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 10'
DETECTION ANGLE	120°

TEMPERATURE RANGE -20° to 70°C

COMMISSIONING DIP switches or optional remote: ZLSOR-RA1

SENSOR COVERAGE PATTERNS

10' height: ø24' coverage





SENSOR DETAIL



Dimensions: ø1-5/16"

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