

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
- HE option delivers superior efficacies up to 176 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. L70 > 72,000 hours per IES TM-21. L80 > 102,000 hours with HE option. 50/60 Hz constant current driver.
- 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
 - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY 5-year limited warranty, see hew.com/warranty

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

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	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 [3]

See page 2 for EMERGENCY BATTERY OPTIONS. See page 3 for FLEXIBLE WHIP OPTIONS.

EQCLIPS Earthquake clips [5]

Additional lower lumen packages available ^[6] Example: 5,800 lumens = LT-24-L64/840-**(L58)** (L__)

High efficacy lumen package [7] HE Chicago Plenum (CCEA) CP 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 DFK-1224W

Drywall kit, 12" x 24", white Drywall kit, 12" x 48", white DFK-1248W DFK-2424W Drywall kit, 24" x 24", white DFK-2448W Drywall kit, 24" x 48", white

CONTROL [4]

AWNS

See page 6 for ADDITIONAL CONTROL OPTIONS.

Avi-on wireless fixture control [8]

AVI-LVFA AVI-LVFA-CS2-PIR

Avi-on wireless fixture control with PIR motion and daylight sensor [9] AWNR

Lutron Athena wireless node integral fixture control, RF only [10]

Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing [11]

DRIVER

VOLTAGE See page 7 for ADDITIONAL DRIVER OPTIONS. 120 120V 277 277V DIM Driver with external 0-10V dimming wires **UNV** 120-277V **DRV** Driver without external dimming wires Driver with 12V auxiliary power, without external dimming wires [12] 347 347V [14]

DSR Sensor-ready driver without external dimming wires (D4i DALI-2) [13]

QUICKSHIP

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
		LT-24-L64/840-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. See page 4 for SURFACE MOUNT KIT DETAILS. See page
- 3 for DRYWALL KIT (DFK) OPTIONS. See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 4 for SENSOR & NODE PLACEMENT
- DETAILS. 4 per fixture. Optional for 1" grid installations. Required for 9/16" grid mounting; LT is compatible with Williams earthquake clips
- Specify in increments of 100 nominal lumens. Option must be
- Specified with next higher lumen package.

 Not available with 90 CRI or 1x4 L28 lumen package. See page 2 for FIXTURE PERFORMANCE DATA.

 DA Driver only.

- DA Driver only.
 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

			STA	ANDARD	HE (OPTION [1]
	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)	WATTAGE	EFFICACY (Im/W)
	L20	2011	17.4	116	13.5	149
12	L31	2985	23.5	127	20.2	148
	L40	3840	32.9	117	26.8	143
	L28	2814	21.4	131	_	_
1×4	L47	4677	33.7	139	28.5	164
~	L63	6261	48.5	129	39.4	159
	L90	9060	66.8	136	56.9	159
	L27	2722	21.3	128	17.2	158
2×2	L39	3934	33.1	119	25.5	154
≈	L49	4869	38.1	128	32.3	151
	L61	6136	50.9	121	40.4	152
	L40	3972	32.0	124	23.1	172
	L52	5202	37.2	140	29.5	176
2×4	L64	6396	48.5	132	39.4	162
	L82	8214	64.3	128	49.9	165
	L110	11065	81.8	135	67.1	165

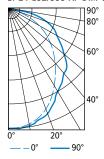
MULTIPLIER TABLE

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

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

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	ZONAL		
	ANGLE	0°	45°	90°	LUMENS
8	0	1851	1851	1851	
	5	1843	1844	1846	175
DISTRIBUTION	15	1745	1761	1779	499
<u>동</u>	25	1544	1589	1636	730
	35	1276	1359	1440	848
\ <u>\S</u>	45	1055	1193	1315	902
CANDLEPOWER	55	741	902	1044	802
를	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
딟	0 - 60	3955	76
₹	0 - 90	5202	100
	0 - 180	5202	100

EMERGENCY BATTERY OPTIONS

 $Specify\ CEC\ in\ the\ option\ code\ when\ California\ Energy\ Commission\ regulations\ are\ required.$

CATALOG NUMBER DESCRIPTION	
EM/10W 10-watt emergency battery ^[1]	
EM/10WRM	Remote mount 10-watt emergency battery ^[2]
EM/10WRM/RTS Remote mount 10-watt emergency battery with regressed test switch	
EM/12W 12-watt emergency battery ^{[1] [3]}	
EM/12WRM	Remote mount 12-watt emergency battery ^{[2] [3]}

- Not available with 1x2 L40 or 2x2 L61 lumen packages.
- Large remote box provided. Not available when CEC regulations are required.

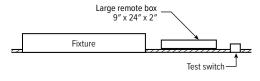
REMOTE MOUNT BATTERY DETAILS

EM/10WRM/RTS

EM/10WRM | EM/12WRM

Max remote distance is 50', connection by others.





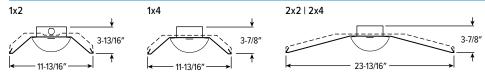
Regressed test switch ø1-3/4"

Standard test switch 2-3/4" x 4-1/2"

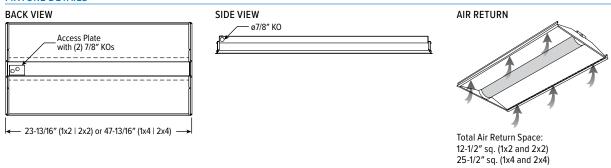
Not available with 90 CRI.



CROSS SECTIONS



FIXTURE DETAILS



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

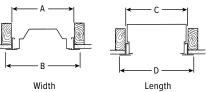
ORDERING INFO

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

INSTALLATION DIMENSIONS

NOMINAL	ROU	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



SEE NEXT PAGE FOR SURFACE MOUNT KIT DETAILS



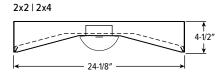
SURFACE MOUNT KIT DETAILS



CROSS SECTIONS

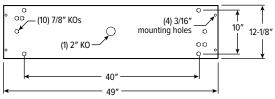
1x4

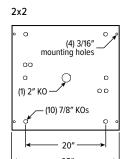


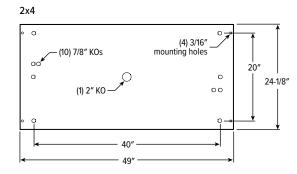


BACK VIEWS

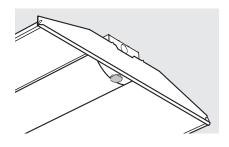








SENSOR & NODE PLACEMENT DETAILS



SEE NEXT PAGE FOR CONTROL 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





Remote Management & Monitoring







Remote Access Bridge

Ceiling Sensors

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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

8' height: ø24' coverage



SENSOR DETAIL



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



ADDITIONAL CONTROL OPTIONS

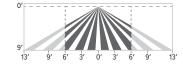
AWNS Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

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

	COVERAGE AREA (SQ FT)
8′	114
9′	144
10′	178
12′	256

SENSOR DETAIL



Dimensions: ø1-1/8"

ATHENA CONTROL OPTIONS

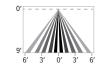
CATALOG NUMBER	DESCRIPTION
AWNR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power.
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary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

	COVERAGE AREA (SQ FT)
8′	114
9′	144
10′	178
12/	256

SENSOR DETAIL



Dimensions: 2-11/16" x 1"

VIVE CONTROL OPTIONS

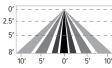
CATALOG NUMBER	DESCRIPTION
VRF	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), for use with sensor-ready driver
VDO	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), for use with sensor-ready driver
VRF/DBI	Lutron Vive integral fixture control,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