AT1 LED
Architectural Troffer – Curved Floating Center

Williams

CATALOG #: _____

4-3/8″

23-5/8″
2x2 | 2x4

TYPE: _____

PROJECT: _____

BAA & BABA COMPLIANT

CCEA Approved

FEATURES

- Backlit curved lens provides uniform illumination for visual comfort
- Curved floating center detail creates a highly-aesthetic presence
- HE option delivers superior efficacies up to 152 lm/W
- Hinged door frame with optical assembly swings down to allow easy access from room side of fixture
- Optional gasketed acrylic lens helps protect against contaminants
- Anti-microbial finish option suppresses the spread of dangerous micro-organisms, mold, and bacterial growth
- Diffuse or perforated lens options enhance the space
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING– Precision die-formed 22-gauge C.R.S.
- DOOR FRAME – Hinged, flat, extruded aluminum door frame with optical assembly.
- SHIELDING – Diffuse molded acrylic lens with center detail.
- FINISH – 95% 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 >60,000 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. Drywall flange kit available, see options.
- 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.
  - 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: AT1 - 2 4 - L70/835 - D - OPTIONS - CONTROL/DRIVER - UNV

SERIES	WIDTH	LENGTH	LUMENS [1]		CRI	CCT		SHIELDING
AT1	1 1′ [2]	2 2′	**1x4**		8 80	27	2700K	D Diffuse matte acrylic center
	2 2′	4 4′	L30	3,000lm	9 90	30	3000K	P Perforated center [3]
			L50	5,000lm		35	3500K	
			L63	6,300lm		40	4000K	
			2x2			50	5000K	
			L30	3,000lm				
			L40	4,000lm				
			L50	5,000lm				
			2x4					
			L40	4,000lm				
			L55	5,500lm				
			L70	7,000lm				
			L100	10,000lm				

OPTIONS

EM/10W	10-watt emergency battery [5]
EM/10WLP	Low-profile 10-watt emergency battery [6]
EM/12W	12-watt emergency battery [7]
EQCLIPS	Earthquake clips [8]
(L__)	Additional lower lumen packages available [9] Example: 5,000 nominal lumens = AT1-24-L55/835-D-(L50).
HE	High efficacy lumen package [10]
SS	Sani-shield acrylic cover with double gasket [11]
SS/PC	Sani-shield polycarbonate cover with double gasket [12]
AMW	Anti-microbial white finish
NEMA F	Flange kit, factory installed [13]
CP	Chicago Plenum (CCEA)

CONTROL [4]

See page 5 for ADDITIONAL CONTROL OPTIONS.

–	None
AVI-LVFA	Avi-on wireless fixture control [14]
AVI-LVFA-CS2-PIR	Avi-on wireless fixture control with PIR motion and daylight sensor [15]
AWNR	Lutron Athena wireless node integral fixture control, RF only [16]
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing [17]

DRIVER

See page 5 for ADDITIONAL DRIVER OPTIONS.

DIM	Driver with external 0-10V dimming wires
DRV	Driver without external dimming wires
DA	Driver with 12V auxiliary power, without external dimming wires [18]
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2) [19]

VOLTAGE

120	120V
277	277V
UNV	120-277V
347	347V [20]

NOTES

1. Lumen output based on D Shielding, 80 CRI/3500K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen package available, see Options.
2. 4′ length only.
3. Decreases lumen output by 15%
4. See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 3 for SENSOR & NODE PLACEMENT DETAILS.
5. 2x2, 2x4 only.
6. 1x4 only.
7. 2x2, 2x4 only. Not available when CEC regulations are required.
8. 4 per fixture. Optional for 1″ grid installations. Required for 9/16″ grid mounting. Not available with NEMA F Option.
9. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
10. Not available with 90 CRI or 2x4 L40 lumen package. See page 2 for FIXTURE PERFORMANCE DATA.
11. Reduces lumen output by 10%. See page 3 for FIXTURE DETAILS.
12. Reduces lumen output by 10%. See page 3 for FIXTURE DETAILS.
13. See page 2 for CROSS SECTIONS.
14. DA Driver only.
15. DA Driver only.
16. DA and DSR Drivers only.
17. DA and DSR Drivers only.
18. Avi-on and Lutron Athena Controls only.
19. Lutron Vive and Athena Controls only.
20. Not available with EM batteries, DA, or DSR drivers.

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FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	STANDARD		HE OPTION [1]	
			WATTAGE	EFFICACY (lm/W)	WATTAGE	EFFICACY (lm/W)
1x4	L30	3028	29.5	103	20.6	147
1x4	L50	5056	48.3	105	35.8	141
1x4	L63	6318	62.4	101	42.9	147
2x2	L30	3028	29.5	103	22.0	138
2x2	L40	4120	37.2	111	29.5	140
2x2	L50	5056	48.3	105	39.4	128
2x4	L40	4035	34.2	118	–	–
2x4	L55	5523	48.0	115	36.7	151
2x4	L70	7002	63.3	111	46.8	150
2x4	L100	10125	86.9	117	66.7	152

MULTIPLIER TABLE

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

1 Not available with 90 CRI.

- Photometrics tested in accordance with IESNA LM-79. Results based on D 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 table to calculate additional options.

PHOTOMETRY

**AT1-22-L40/835-D-DIM-UNV** Total Luminaire Output: 4120 lumens; 37.2 Watts | Efficacy: 111 lm/W | 80 CRI; 3500K CCT
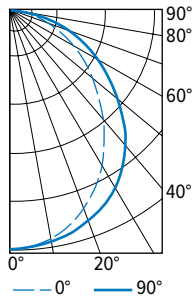
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0º	45º	90º	
0	1556	1556	1556	
5	1557	1550	1549	147
15	1468	1485	1511	419
25	1295	1353	1429	625
35	1089	1171	1282	736
45	840	948	1054	732
55	600	723	793	635
65	382	495	564	479
75	197	290	323	279
85	44	54	48	65
90	0	0	0	

ZONE	LUMENS	% FIXTURE
0 - 30	1191	29
0 - 40	1928	47
0 - 60	3296	80
0 - 90	4120	100
0 - 180	4120	100

**AT1-24-L70/835-D-DIM-UNV** Total Luminaire Output: 7002 lumens; 63.3 Watts | Efficacy: 111 lm/W | 80 CRI; 3500K CCT
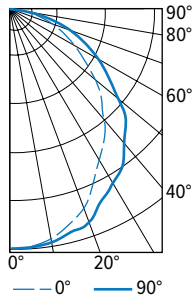

VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0º	45º	90º	
0	2694	2694	2694	
5	2696	2701	2703	256
15	2533	2576	2626	725
25	2185	2298	2426	1064
35	1835	2023	2194	1250
45	1396	1632	1771	1232
55	982	1203	1296	1052
65	643	843	912	804
75	336	500	514	487
85	95	102	105	133
90	0	0	0	

ZONE	LUMENS	% FIXTURE
0 - 30	2044	29
0 - 40	3294	47
0 - 60	5578	80
0 - 90	7002	100
0 - 180	7002	100

CROSS SECTIONS

1x4

4-7/16″
11-13/16″

2x2 | 2x4

4-3/8″
23-5/8″
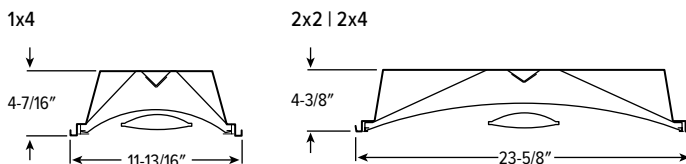
FLANGE KIT INSTALLATION

1″ Min.
3-3/8″ Max.
4-3/8″
25-5/16″
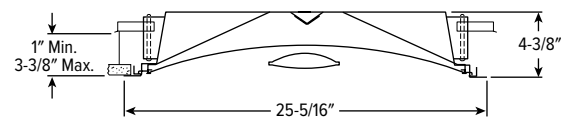
Maximum recommended ceiling opening is 24-3/8″ x 24-3/8″ for 2′x2′ and 24-3/8″x 48-3/8″ for 2′x4′. For continuous row mounting, add 49-5/16″ for each additional fixture to obtain ceiling opening. 1-5/16″ between end plates.
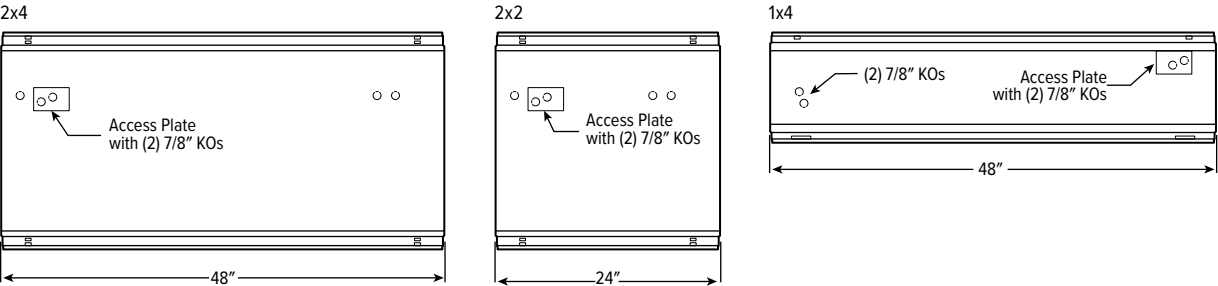
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FIXTURE DETAILS

See hew.com/power-entry for power entry details.

BACKVIEW

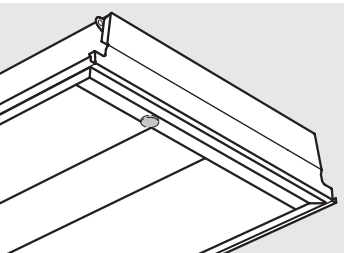**2x4**

Access Plate
with (2) 7/8″ KOs

48″

2x2

Access Plate
with (2) 7/8″ KOs

24″

1x4

(2) 7/8″ KOs

Access Plate
with (2) 7/8″ KOs

48″

SS | SS/PC OPTIONS GASKETING DETAILS

Gasketing
factory-installed
between door frame
and luminaire housing
and between door
frame and lens.
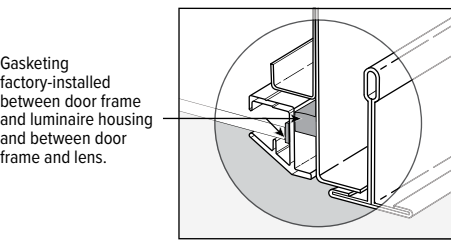
SENSOR & NODE PLACEMENT DETAILS

SEE NEXT PAGE FOR CONTROL DETAILS.

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AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

FEATURES

Simple
- Gateway-free distributed control
- 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.
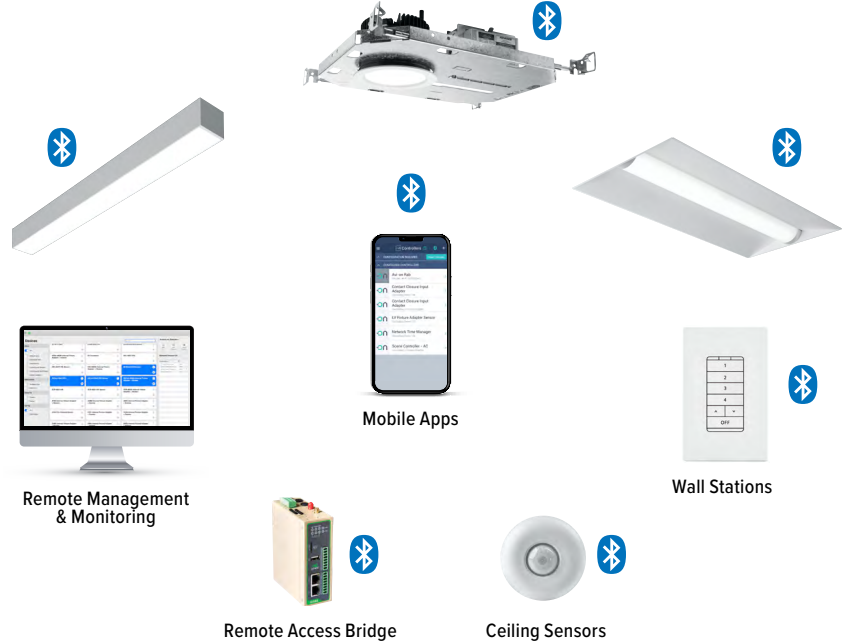
Commissioning Mobile App

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-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

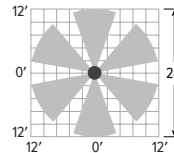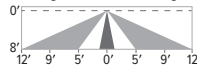For load controllers and additional accessory info, see hew.com/avi-on

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℃
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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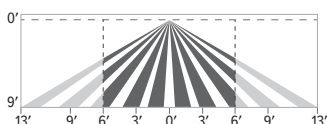## Architectural Troffer – Curved Floating Center

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"
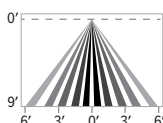
ATHENA CONTROL OPTIONS

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 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

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