

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

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

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

## FEATURES

- Backlit curved lens provides uniform illumination for visual comfort
- Curved floating center detail creates a highly-aesthetic presence
- Maximize energy savings with efficacies as high as 118 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
- Available with Avi-on wireless fixture controls
- Available with BIOS<sup>®</sup> SkyBlue<sup>®</sup> technology to support proper daytime circadian stimulus
- Made Right Here<sup>®</sup> 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 polycarbonate lens and acrylic center standard.
- 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.
- MOUNTING** – Designed for NEMA Type “G” 1” grid ceiling standard. For NEMA Type “NFG” and “SG” 9/16” grid installations, specify EQCLIPS option. NEMA Type “F” 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.
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

**ORDERING EXAMPLE: AT1 - 2 4 - L70/835 - D - OPTIONS - CONTROL/DRIVER - UNV**

## ORDERING INFO

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

## OPTIONS

- EM/7W** 7-watt emergency battery
- EM/10W** 10-watt emergency LED battery<sup>[6]</sup>
- EM/10WLP** Low-profile 10-watt emergency LED battery<sup>[7]</sup>
- EM/12W** 12-watt emergency battery<sup>[8]</sup>
- EQCLIPS** Earthquake clips<sup>[9]</sup>
- (L\_\_)** Additional lower lumen packages available.<sup>[10]</sup>  
Example: 5,000 nominal lumens = AT1-24-L55/835-D-(L50).
- SS** Sani-shield acrylic cover with double gasket.<sup>[11]</sup>
- SS/PC** Sani-shield polycarbonate cover with double gasket.<sup>[12]</sup>
- AMW** Anti-microbial white finish
- NEMA F** NEMA Type “F” flange kit<sup>[13]</sup>
- CP** Chicago Plenum (CCEA)

## CONTROL<sup>[5]</sup>

- None
- AVI-LVFA** Avi-on wireless fixture control<sup>[14]</sup>
- AVI-LVFA-CS2-PIR** Avi-on wireless fixture control with PIR motion and daylight sensor<sup>[15]</sup>
- VDO** Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC)<sup>[16]</sup>
- VRF** Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF)<sup>[17]</sup>

## DRIVER<sup>[18]</sup>

DRIVER	VOLTAGE
<b>DIM</b> Driver with external dimming wires	120 120V
<b>DRV</b> Driver without external dimming wires	277 277V
<b>DA</b> Driver with 12V auxiliary power, without external dimming wires <sup>[19]</sup>	UNV 120-277V
<b>DSR</b> Sensor-ready driver without external dimming wires <sup>[20]</sup>	347 347V <sup>[21]</sup>

## NOTES

- Lumen output based on 3500 CCT. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen package available, see options.
- 2' width only.
- Extended lead times may apply. Consult factory for availability.
- Decreases lumen output by 15%
- See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 3 for SENSOR PLACEMENT DETAILS. See page 5 for ADDITIONAL CONTROL OPTIONS.
- 2x2, 2x4 only.
- 1x4 only.
- 2x2, 2x4 only.
- 4 per fixture. Optional for 1” grid installations. Required for 9/16” grid mounting. Not available with NEMA F Option.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- Reduces lumen output by 10%.
- Reduces lumen output by 10%.
- Factory-installed. See page 3 for NEMA TYPE “F” INSTALLATION.
- DA Driver only.
- DA Driver only.
- DSR or LDE Drivers only. LDE drivers require driver interface.
- DSR or LDE Drivers only. LDE drivers require driver interface.
- See page 5 for ADDITIONAL DRIVER OPTIONS.
- Avi-on Controls only.
- VDO and VRF Controls only.
- Not available with EM batteries or Avi-on Controls.



# AT1 LED Architectural Troffer – Curved Floating Center

## FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
1x4	L30	3028	29.5	102.6
	L50	5056	48.3	104.7
	L63	6318	62.4	101.3
2x2	L30	3028	29.5	102.6
	L40	4120	37.2	110.8
	L50	5056	48.3	104.7
2x4	L40	4035	34.2	118.1
	L55	5523	48.0	115.0
	L70	7002	63.3	110.6
	L100	10125	86.9	116.5

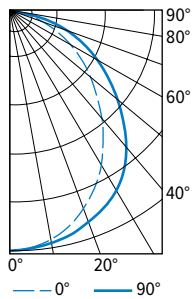
### MULTIPLIER TABLE

	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

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is average for 120V through 277V input.
- Results based on 3500K, 80 CRI, actual lumens may vary +/-5%
- Use multiplier table to calculate additional options.

## PHOTOMETRY

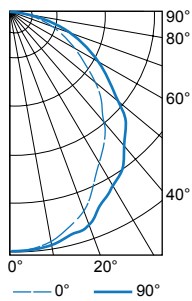
**AT1-22-L40/835-D-DIM-UNV** Total Luminaire Output: 4120 lumens; 37 Watts | Efficacy: 111 lm/W | 82 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	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	

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

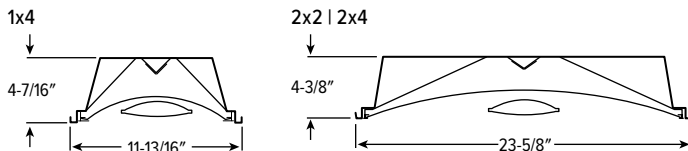
**AT1-24-L70/835-D-DIM-UNV** Total Luminaire Output: 7002 lumens; 63 Watts | Efficacy: 111 lm/W | 82 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	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	

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

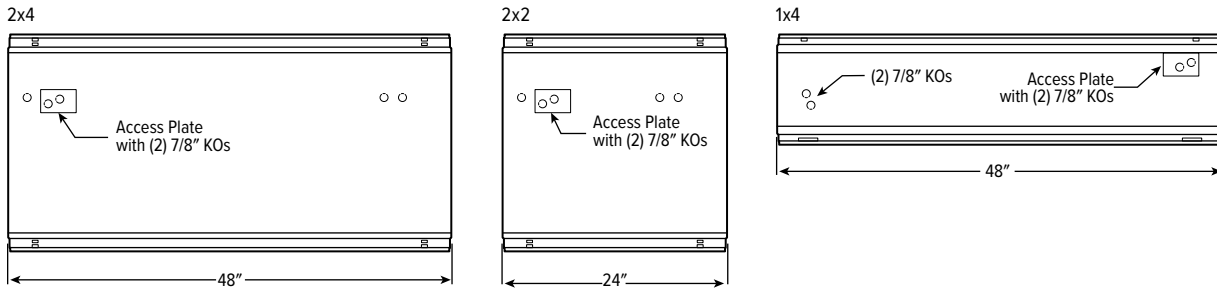
## CROSS SECTIONS



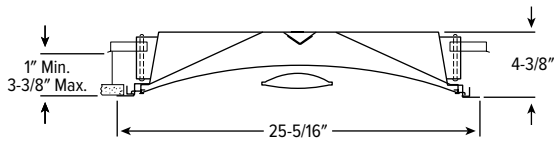
# AT1 LED Architectural Troffer – Curved Floating Center

## FIXTURE DETAILS

### BACKVIEW

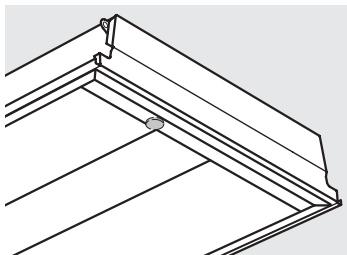


## NEMA TYPE "F" INSTALLATION



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.

## SENSOR PLACEMENT DETAILS



SEE NEXT PAGE FOR CONTROL DETAILS.



# AT1 LED Architectural Troffer – Curved Floating Center

## AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

### AVI-ON NETWORK FEATURES

#### Simple

- Gateway-free distributed control
- Factory pre-commissioning
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

#### Scalable

- Virtually unlimited network size
- Spans small areas to large warehouses
- Flexible control strategies

#### Secure

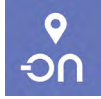
- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

### DIGITAL INSTALLATION TOOLS

Avi-On mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers.



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
CONNECTIVITY	
AVI-2001RAB-01-P	Remote access bridge for projects 100 or greater
AVI-2001RAB-01-C	Remote access bridge for projects less than 100
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.

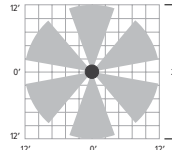
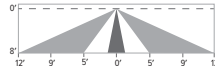
SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 10'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 50°C
RELATIVE HUMIDITY	10 to 80% non-condensing
IP RATING	IP20
MANUFACTURER	Avi-On

Bluetooth® Lighting Controls

### SENSOR COVERAGE PATTERNS

#### Side View

8' height: Ø24' coverage



### SENSOR DETAIL



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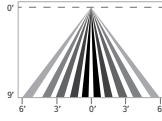
## ADDITIONAL CONTROL OPTIONS

**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



## VIVE CONTROL OPTIONS

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

## 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	Dimming driver with 12V auxiliary
DSR	Sensor-ready driver
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver

