AT2 LED
Architectural Troffer – Curved Deep Center

Williams

CATALOG #: _____

4-3/8″

23-5/8″

TYPE: _____

PROJECT: _____

BUY AMERICAN ACT COMPLIANT · CCEA Approved · bios ILLUMINATED

FEATURES

- Backlit curved lens provides uniform illumination for visual comfort
- Distinct curved deep center detail creates a highly aesthetic presence
- Available with decorative inserts to customize center lens
- Maximize energy savings with efficacies as high as 120 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
- Wireless in-fixture control solutions available
- Available with BIOS® SkyBlue® technology to support proper daytime circadian stimulus
- 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 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 – 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.
  - 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: AT2 - 2 4 - L70/835 - D - OPTIONS - CONTROL/DIM - UNV

ORDERING INFO

SERIES	WIDTH	LENGTH	LUMENS [1]		CRI	CCT	SHIELDING
AT2	2 2′	2 2′	**2x2**		8 80	27 2700K	**D** Diffuse matte acrylic center
		4 4′	L30	3,000lm	9 90 [2]	30 3000K	**P** Perforated center [3]
			L40	4,000lm		35 3500K	
			L50	5,000lm		40 4000K	**DECORATIVE INSERTS** [4]
			2x4			50 5000K	**DI1** Triple wave
			L40	4,000lm			**DI2** Brushed metal
			L55	5,500lm			**DI5** Stripes
			L70	7,000lm			**DI6** Tri-Pyramid
			L100	10,000lm			

OPTIONS

EM/10W	10-watt emergency battery
EM/12W	12-watt emergency battery [6]
EQCLIPS	Earthquake clips [7]
(L__)	Additional lower lumen packages available [8] Example: 5,000 nominal lumens = AT2-24-L55/835-D-**(L50)**.
SS	Sani-shield acrylic cover with double gasket [9]
SS/PC	Sani-shield polycarbonate cover with double gasket [10]
AMW	Anti-microbial white finish
NEMA F	Flange kit, factory installed [11]
CP	Chicago Plenum (CCEA)

CONTROL [5]

See page 5 for ADDITIONAL CONTROL OPTIONS.

–	None
AVI-LVFA	Avi-on wireless fixture control [12]
AVI-LVFA-CS2-PIR	Avi-on wireless fixture control with PIR motion and daylight sensor [13]
AWNR	Lutron Athena wireless node integral fixture control, RF only [14]
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing [15]

DRIVER

See page 5 for ADDITIONAL DRIVER OPTIONS.

DIM	Driver with external dimming wires
DRV	Driver without external dimming wires
DA	Driver with 12V auxiliary power, without external dimming wires [16]
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2) [17]

VOLTAGE

120	120V
277	277V
UNV	120-277V
347	347V [18]

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. Extended lead times may apply. Consult factory for availability.
3. Decreases lumen output by 15%
4. Only available with D shielding option. See page 3 for DIFFUSE CENTER DECORATIVE INSERT DETAILS.
5. See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 3 for SENSOR & NODE PLACEMENT DETAILS.
6. Not available when CEC regulations are required.
7. 4 per fixture. Optional for 1″ grid installations. Required for 9/16″ grid mounting. Not available with NEMA F Option.
8. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
9. Reduces lumen output by 10%. See page 2 for FIXTURE DETAILS.
10. Reduces lumen output by 10%. See page 2 for FIXTURE DETAILS.
11. See page 3 for FLANGE KIT INSTALLATION.
12. DA Driver only.
13. DA Driver only.
14. DA and DSR Drivers only.
15. DA and DSR Drivers only.
16. Avi-on and Lutron Athena Controls only.
17. Lutron Vive and Athena Controls only.
18. Not available with EM batteries, DA, or DSR drivers.

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FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
2x2	L30	3119	29.5	106
	L40	4243	37.2	114
	L50	5208	48.3	108
2x4	L40	4117	34.2	120
	L55	5633	48.0	117
	L70	7143	63.3	113
	L100	10328	86.9	119

- 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.
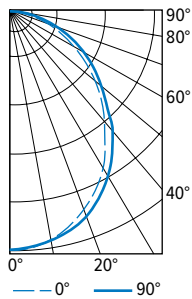- Use multiplier table to calculate additional options.

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

PHOTOMETRY

**AT2-24-L40/835-D-DIM-UNV** Total Luminaire Output: 4117 lumens; 34.2 Watts | Efficacy: 120 lm/W | 80 CRI; 3500K CCT

VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1729	1729	1729	
5	1729	1729	1731	164
15	1618	1636	1656	460
25	1398	1439	1473	663
35	1171	1225	1268	757
45	888	945	984	723
55	620	669	694	597
65	397	440	461	431
75	201	241	253	249
85	52	65	60	72
90	0	0	0	

ZONE	LUMENS	% FIXTURE
0 - 30	1287	31
0 - 40	2044	50
0 - 60	3364	82
0 - 90	4117	100
0 - 180	4117	100

AT2-24-L70/835-D-DIM-UNV Total Luminaire Output: 7143 lumens; 63.3 Watts | Efficacy: 113 lm/W | 80 CRI; 3500K CCT
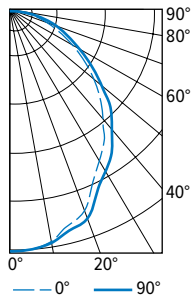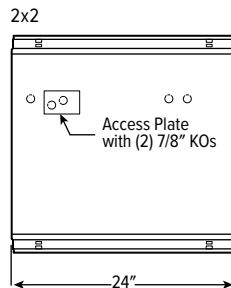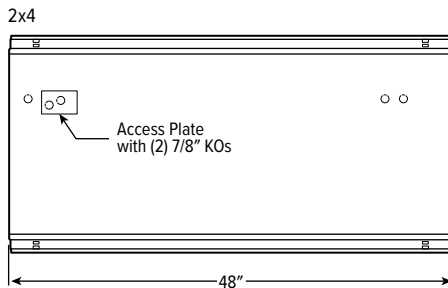

VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	3000	3000	3000	
5	3000	3000	3004	284
15	2807	2839	2873	798
25	2425	2496	2556	1151
35	2032	2126	2200	1314
45	1540	1639	1708	1254
55	1076	1161	1205	1036
65	690	763	800	749
75	349	418	439	432
85	90	113	103	126
90	0	0	0	

ZONE	LUMENS	% FIXTURE
0 - 30	2233	31
0 - 40	3547	50
0 - 60	5837	82
0 - 90	7143	100
0 - 180	7143	100

FIXTURE DETAILS

BACKVIEW

2x4

Access Plate with (2) 7/8″ KOs

48″

2x2

Access Plate with (2) 7/8″ KOs

24″

SS | SS/PC OPTIONS GASKETING DETAILS

Gasketing factory-installed between door frame and luminaire housing and between door frame and lens.

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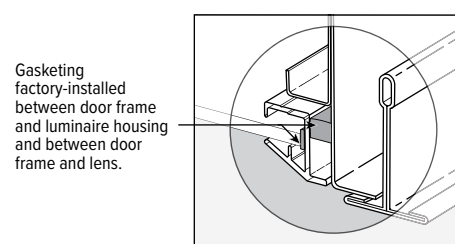
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FLANGE KIT INSTALLATION
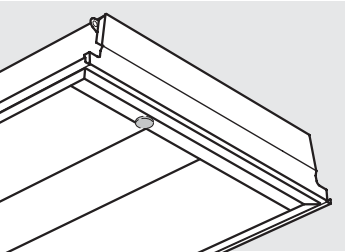
1" Min.
3-3/8" Max.

4-3/8"

25-5/16"
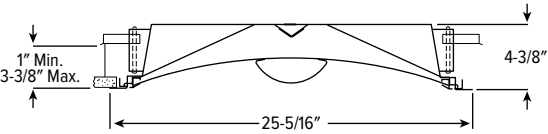
Note: Maximum recommended ceiling opening is 24-3/8" x 24-3/8" for 2'x2' and 24-3/8"x 48-3/8" for 2'x4'. For continuous row mounting, add 49-5/16" for each additional fixture to obtain ceiling opening. 1-5/16" between end plates.

DIFFUSE CENTER DECORATIVE INSERT DETAILS

TRIPLE WAVE	BRUSHED METAL	STRIPES	TRI-PYRAMID
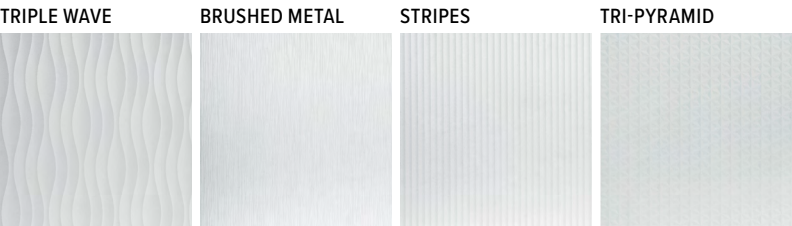
SENSOR & NODE PLACEMENT DETAILS

SEE NEXT PAGE FOR CONTROL DETAILS.

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AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

FEATURES

Simple
- Gateway-free distributed control
- Factory pre-commissioning
- 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.
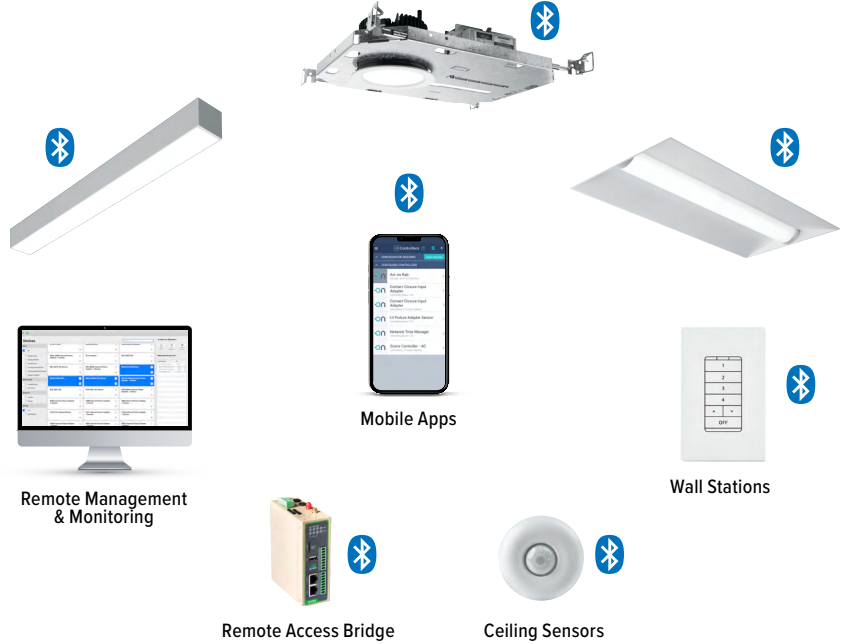
Commissioning Mobile App

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-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

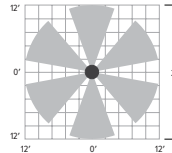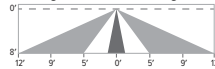For load controllers and additional accessory info, see hew.com/avi-on

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℃
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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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
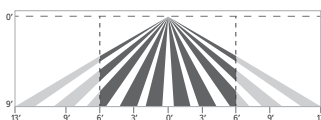
SENSOR COVERAGE PATTERNS

9' height: ø12' coverage

Motion Sensor Coverage

CEILING HEIGHT	COVERAGE AREA (SQ FT)
8'	114
9'	144
10'	178
12'	256

SENSOR DETAIL

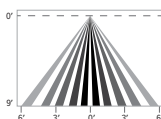Dimensions: ø1-1/8"

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 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

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