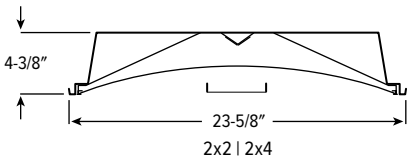
AT3 LED
Architectural Troffer – Straight Floating Center



CATALOG #:

TYPE:

PROJECT:

FEATURES

- Backlit curved lens provides uniform illumination for visual comfort
- Distinct straight floating center detail creates a highly-aesthetic presence
- Sleek, extruded center complements MX4 continuous light series
- HE option delivers superior efficacies up to 146 lm/W
- Hinged door frame with optical assembly swings down to allow easy access from room side of fixture
- Diffuse or perforated lens options enhance the space
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Optional gasketed acrylic lens helps protect against contaminants
- Anti-microbial finish option suppresses the spread of dangerous micro-organisms, mold, and bacterial growth
- 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. Tunable White products use LEDs of multiple shades of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- 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: AT3 - 2 4 - L70/835 - D - OPTIONS - CONTROL/DIM - UNV

SERIES	WIDTH	LENGTH	LUMENS [1]	CRI	CCT	SHIELDING
AT3	**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 [5]
			L50 5,000lm		**35** 3500K	
			L63 6,300lm [3]		**40** 4000K	
			2x2		**50** 5000K	
			L30 3,000lm		**TW** Tunable white (3000K–5000K)	
			L40 4,000lm		**TW2** Tunable white (2700K-6500K)	
			L50 5,000lm			
			2x4			
			L40 4,000lm			
			L55 5,500lm			
			L70 7,000lm			
			L100 10,000lm [4]			

OPTIONS

EM/10W	10-watt emergency battery [7]
EM/10WLP	Low-profile 10-watt emergency battery [8]
EM/10W/ST	10-watt self-diagnostic emergency battery
EM/12W	12-watt emergency battery [9]
EQCLIPS	Earthquake clips [10]
(L__)	Additional lower lumen packages available [11] Example: 5,000 nominal lumens = AT3-24-L55/835-D-**(L50)**
HE	High efficacy lumen package [12]
SS	Sani-shield acrylic cover with double gasket [13]
SS/PC	Sani-shield polycarbonate cover with double gasket [14]
AMW	Anti-microbial white finish
NEMA F	Flange kit, factory installed [15]
CP	Chicago Plenum (CCEA)

CONTROL [6]

Click HERE for control and sensor options.

– None

DRIVER

See page 3 for ADDITIONAL DRIVER OPTIONS.

DIM	Driver with external 0-10V dimming wires [17]
DIM1	1% Driver with external 0-10V dimming wires [18]
DRV	Driver without external dimming wires [19]

VOLTAGE

120	120V
277	277V
UNV	120-277V
347	347V [16]

NOTES

1. Lumen output based on D Shielding, 80 CRI/3500K for static white and 4000K for tunable white. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen package available, see Options.
2. 4′ length only.
3. Static white CCT only.
4. Static white CCT only.
5. Decreases lumen output by 15%
6. See page 3 for SENSOR & NODE PLACEMENT DETAILS.
7. 2x2, 2x4 only.
8. 1x4 only.
9. 2x2, 2x4 only. Not available when CEC regulations are required.
10. 4 per fixture. Optional for 1″ grid installations. Required for 9/16″ grid mounting. Not available with NEMA F Option.
11. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
12. Not available with tunable white or 90 CRI or 2x4 L40 lumen package. See page 2 for FIXTURE PERFORMANCE DATA.
13. Reduces lumen output by 10%. Not available with integral control sensors. See page 3 for FIXTURE DETAILS.
14. Reduces lumen output by 10%. Not available with integral control sensors. See page 3 for FIXTURE DETAILS.
15. See page 3 for CROSS SECTIONS.
16. Not available with tunable white or EM batteries.
17. 0.1% Driver with tunable white.
18. Not available with tunable white.
19. Not available with tunable white.

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FIXTURE PERFORMANCE DATA

			STANDARD		HE OPTION [1]	
	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	WATTAGE	EFFICACY (lm/W)
1x4	L30	2816	29.5	95	20.6	137
	L50	4702	48.3	97	35.8	131
	L63	5876	62.4	94	42.9	137
2x2	L30	2816	29.5	95	22.0	128
	L40	3831	37.2	103	29.5	130
	L50	4701	48.3	97	39.4	119
2x4	L40	3874	34.2	113	–	–
	L55	5302	48.0	110	36.7	145
	L70	6722	63.3	106	46.8	144
	L100	9720	86.9	112	66.7	146

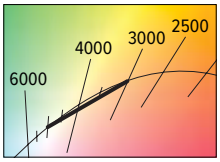
1 Not available with 90 CRI.

- Photometrics tested in accordance with IESNA LM-79. Results based on D shielding, 80 CRI, 3500K for single CCT and 4000K for tunable white, 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.

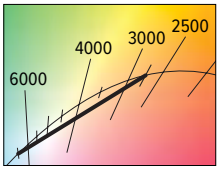
MULTIPLIER TABLE

	COLOR TEMPERATURE			
	CCT	STANDARD	TW	TW2
80 CRI	2700K	0.97	–	0.93
	3000K	0.99	0.95	0.95
	3500K	1.00	0.98	0.98
	4000K	1.03	1.00	1.00
	5000K	1.06	0.96	1.02
	6500K	–	–	1.01
90 CRI	2700K	0.80	–	0.93
	3000K	0.82	0.91	0.95
	3500K	0.83	0.96	0.98
	4000K	0.86	1.00	1.00
	5000K	0.89	1.03	1.03
	6500K	–	–	1.02

TW

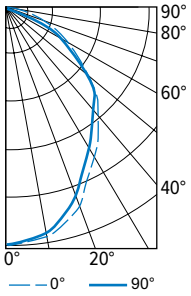


TW2



PHOTOMETRY

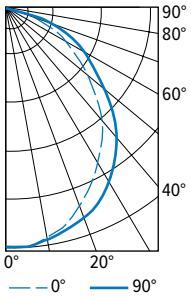
AT3-14-L63/835-D-DIM-UNV Total Luminaire Output: 5876 lumens; 62.4 Watts | Efficacy: 94.0 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION					
	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	HORIZONTAL ANGLE 45°	HORIZONTAL ANGLE 90°	ZONAL LUMENS
	0	2679	2679	2679	
	5	2651	2643	2637	251
	15	2510	2475	2444	697
	25	2144	2081	2038	968
	35	1786	1718	1691	1081
	45	1450	1400	1387	1070
	55	1000	976	939	871
	65	655	635	469	582
	75	319	227	208	281
	85	88	61	45	75
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1916	33
	0 - 40	2997	51
	0 - 60	4938	84
	0 - 90	5876	100
	0 - 180	5876	100

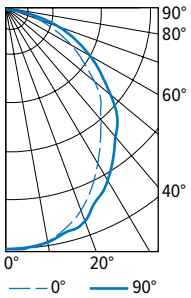
AT3-22-L50/835-D-DIM-UNV Total Luminaire Output: 4701 lumens; 48 Watts | Efficacy: 97 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION					
	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	HORIZONTAL ANGLE 45°	HORIZONTAL ANGLE 90°	ZONAL LUMENS
	0	1831	1831	1831	
	5	1831	1822	1820	173
	15	1719	1735	1762	490
	25	1514	1590	1654	730
	35	1253	1359	1461	852
	45	984	1094	1191	838
	55	696	820	892	716
	65	431	546	613	532
	75	214	313	332	305
	85	48	41	30	64
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1393	30
	0 - 40	2246	48
	0 - 60	3800	81
	0 - 90	4701	100
	0 - 180	4701	100

AT3-24-L70/835-D-DIM-UNV Total Luminaire Output: 6722 lumens; 63 Watts | Efficacy: 106 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION					
	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	HORIZONTAL ANGLE 45°	HORIZONTAL ANGLE 90°	ZONAL LUMENS
	0	2678	2678	2678	
	5	2664	2665	2667	253
	15	2514	2536	2569	715
	25	2175	2246	2331	1038
	35	1762	1886	2010	1182
	45	1419	1587	1692	1192
	55	981	1137	1210	1004
	65	656	802	861	768
	75	342	467	467	457
	85	102	73	68	112
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2006	30
	0 - 40	3188	47
	0 - 60	5384	80
	0 - 90	6722	100
	0 - 180	6722	100

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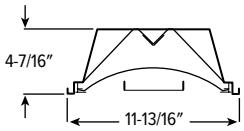
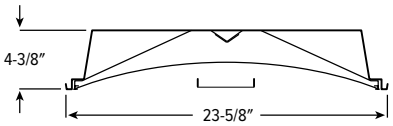
CROSS SECTIONS

NEMA G INSTALLATION

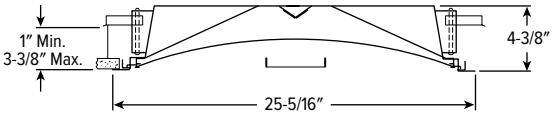
1x4



2x2 | 2x4



FLANGE KIT INSTALLATION



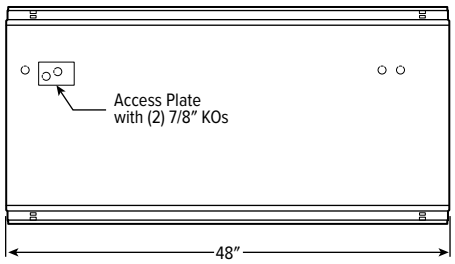
Maximum recommended ceiling opening is 24-3/8″ x 24-3/8″ for 2′x2′ and 24-3/8″x 48-3/8″ for 2′x4′. For continuous row mounting, add 49-5/16″ for each additional fixture to obtain ceiling opening. 1-5/16″ between end plates.

FIXTURE DETAILS

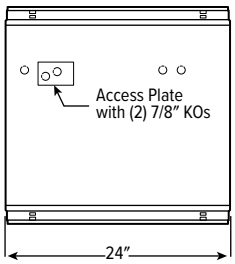
See hew.com/power-entry for power entry details.

BACKVIEW

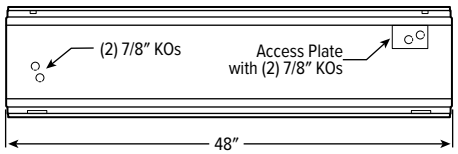
2x4



2x2

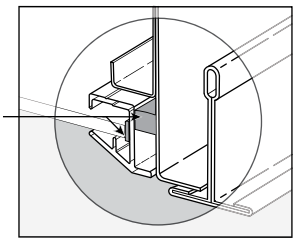


1x4

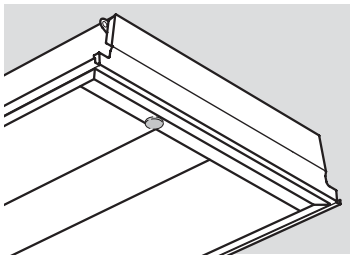


SS | SS/PC OPTIONS GASKETING DETAILS

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



SENSOR & NODE PLACEMENT DETAILS



ADDITIONAL DRIVER OPTIONS

Note: Restrictions may apply, consult product builder at hew.com/product-builder

CATALOG NUMBER	DESCRIPTION
DRV [1]	Driver without external dimming wires prewired for non-dimming applications
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications (tunable white: (1) 0-10V signal controls 0.1% dimming and (1) 0-10V signal controls CCT)
DIM1 [1]	1% driver with external dimming wires prewired for 0-10V low voltage applications
DIM LINE [1]	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC [1]	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power, without external dimming wires (not available with 347V)
DSR	DALI-2 sensor-ready driver without external dimming wires (Not available with 347V. Static CCTs use D4i DALI-2 driver)
DALI	DALI dimming driver
DMX	Driver prewired for DMX applications
SD40 [1]	40% step-dimming driver
SD50 [1]	50% step-dimming driver
LDE1 [1]	Lutron Hi-lume 1% EcoSystem dimming driver
LD2	Lutron DALI-2 digital driver, 1%
DCC	Remote UL Class 2 DC constant current supply, UL- or CSA-listed, by others

1 Single CCT only.

TUNABLE WHITE DRIVER DETAILS

DIM

DALI

DMX

LD2