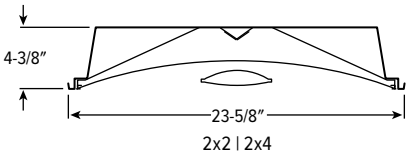
AT1 LED
Architectural Troffer – Curved Floating Center



CATALOG #:

TYPE:

PROJECT:

BAA & BABA COMPLIANT | CCEA Approved | TW

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
- Support human-centric design with adaptive, individualized lighting using tunable white light
- 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. 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: 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 [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 = AT1-24-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 2 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	3028	29.5	103	20.6	147
	L50	5056	48.3	105	35.8	141
	L63	6318	62.4	101	42.9	147
2x2	L30	3028	29.5	103	22.0	138
	L40	4120	37.2	111	29.5	140
	L50	5056	48.3	105	39.4	128
2x4	L40	4035	34.2	118	–	–
	L55	5523	48.0	115	36.7	151
	L70	7002	63.3	111	46.8	150
	L100	10125	86.9	117	66.7	152

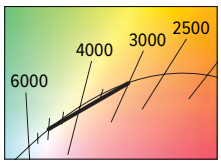
[1] Not available with 90 CRI.

- 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.

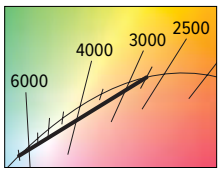
MULTIPLIER TABLE

		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

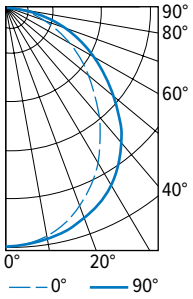


TW2



PHOTOMETRY

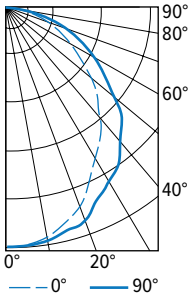
AT1-22-L40/835-D-DIM-UNV Total Luminaire Output: 4120 lumens; 37.2 Watts | Efficacy: 111 lm/W | 80 CRI; 3500K CCT



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; 63.3 Watts | Efficacy: 111 lm/W | 80 CRI; 3500K CCT



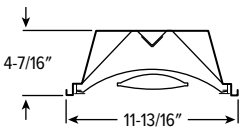
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	2694	2694	2694	
	5	2696	2701	2703	256
	15	2533	2576	2626	725
	25	2185	2298	2426	1064
	35	1835	2023	2194	1250
	45	1396	1632	1771	1232
	55	982	1203	1296	1052
	65	643	843	912	804
	75	336	500	514	487
	85	95	102	105	133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

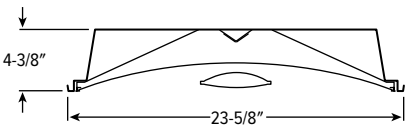
CROSS SECTIONS

NEMA G INSTALLATION

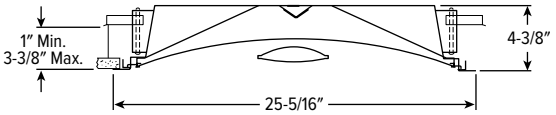
1x4



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.

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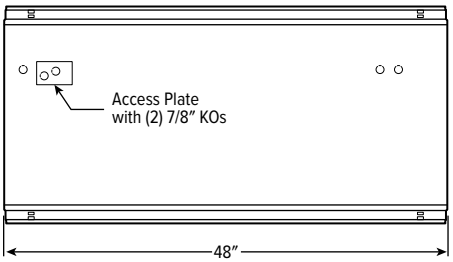
FIXTURE DETAILS

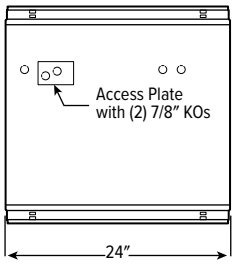
See hew.com/power-entry for power entry details.

BACKVIEW

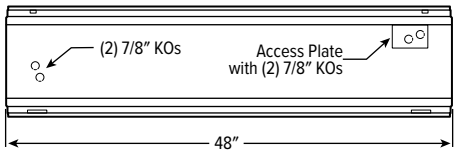
2x4



2x2

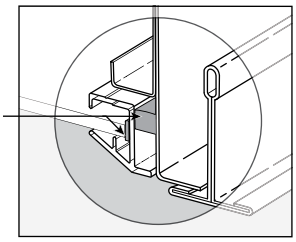


1x4

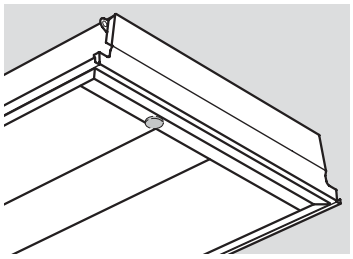


SS | SS/PC OPTIONS GASKETING DETAILS

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