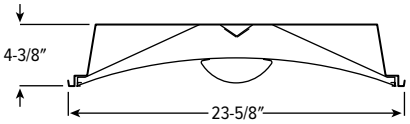
AT2 LED
Architectural Troffer – Curved Deep Center



CATALOG #:

TYPE:

PROJECT:

BAA & BABA COMPLIANT | CCEA Approved | TW

FEATURES

- Backlit curved lens provides uniform illumination for visual comfort
- Distinct curved deep center detail creates a highly aesthetic presence
- HE option delivers superior efficacies up to 155 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: AT2 - 2 4 - L70/835 - D - OPTIONS - CONTROL/DIM - UNV

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	**30** 3000K	**P** Perforated center [3]
			L40 4,000lm		**35** 3500K	
			L50 5,000lm		**40** 4000K	
			2x4		**50** 5000K	
			L40 4,000lm		**TW** Tunable white (3000K–5000K)	
			L55 5,500lm		**TW2** Tunable white (2700K-6500K)	
			L70 7,000lm			
			L100 10,000lm [2]			

OPTIONS

EM/10W	10-watt emergency battery
EM/10W/ST	10-watt self-diagnostic emergency battery
EM/12W	12-watt emergency battery [5]
EQCLIPS	Earthquake clips [6]
(L__)	Additional lower lumen packages available [7] Example: 5,000 nominal lumens = AT2-24-L55/835-D-**(L50)**
HE	High efficacy lumen package [8]
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 [4]

*Click **HERE** for control and sensor options.*

– None

DRIVER

*See page 3 for **ADDITIONAL DRIVER OPTIONS**.*

DIM	Driver with external 0-10V dimming wires [13]
DIM1	1% Driver with external 0-10V dimming wires [14]
DRV	Driver without external dimming wires [15]

VOLTAGE

120	120V
277	277V
UNV	120-277V
347	347V [12]

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. Static white CCT only.
3. Decreases lumen output by 15%
4. See page 3 for SENSOR & NODE PLACEMENT DETAILS.
5. Not available when CEC regulations are required.
6. 4 per fixture. Optional for 1″ grid installations. Required for 9/16″ grid mounting. Not available with NEMA F Option.
7. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
8. Not available with tunable white or 90 CRI or 2x4 L40 lumen package. See page 2 for FIXTURE PERFORMANCE DATA.
9. Reduces lumen output by 10%. Not available with integral control sensors. See page 2 for FIXTURE DETAILS.
10. Reduces lumen output by 10%. Not available with integral control sensors. See page 2 for FIXTURE DETAILS.
11. See page 3 for CROSS SECTIONS.
12. Not available with tunable white or EM batteries.
13. 0.1% Driver with tunable white.
14. Not available with tunable white.
15. 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)
2x2	L30	3119	29.5	106	22.0	142
	L40	4243	37.2	114	29.5	144
	L50	5208	48.3	108	39.4	132
2x4	L40	4117	34.2	120	–	–
	L55	5633	48.0	117	36.7	154
	L70	7143	63.3	113	46.8	153
	L100	10328	86.9	119	66.7	155

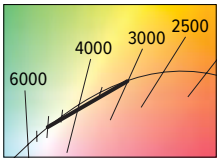
[1] Not available with 90 CRI.

- 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.

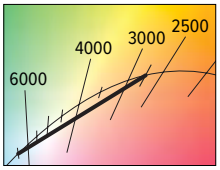
MULTIPLIER TABLE

	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

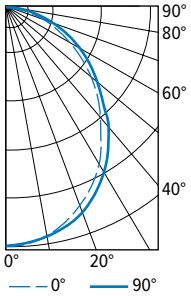


TW2



PHOTOMETRY

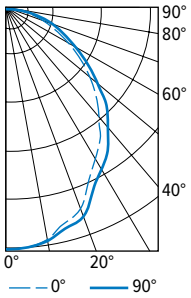
AT2-24-L40/835-D-DIM-UNV Total Luminaire Output: 4117 lumens; 34.2 Watts | Efficacy: 120 lm/W | 80 CRI; 3500K CCT



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

LUMEN SUMMARY	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



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

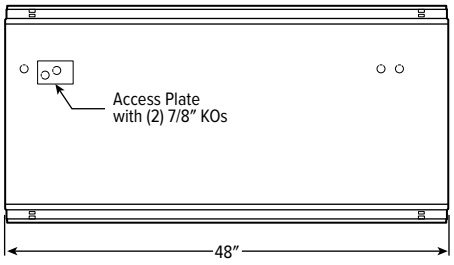
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2233	31
	0 - 40	3547	50
	0 - 60	5837	82
	0 - 90	7143	100
	0 - 180	7143	100

FIXTURE DETAILS

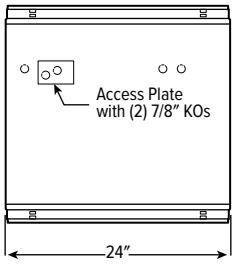
See hew.com/power-entry for power entry details.

BACKVIEW

2x4

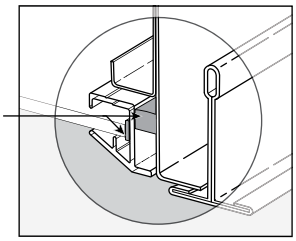


2x2



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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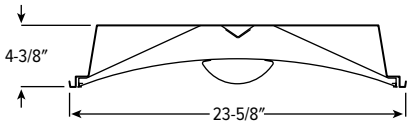
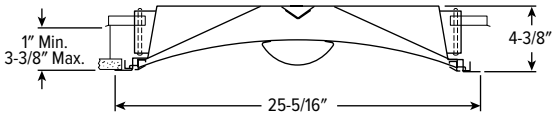
CROSS SECTIONS

NEMA G INSTALLATION



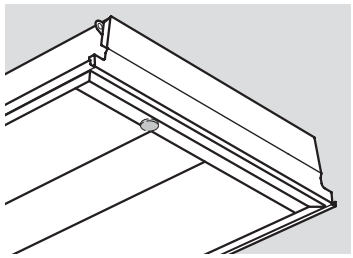
FLANGE KIT INSTALLATION

2’x2’ | 2’x4’



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 & 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