

ARCHITECTURAL LED TROFFER – CURVED FLOATING CENTER

AT1

CATALOG #:

TYPE:

PROJECT:

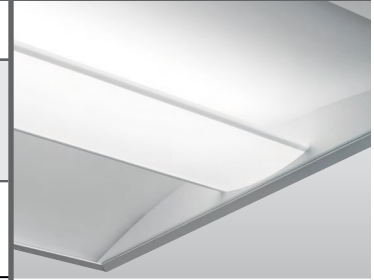
NOTES:

LED

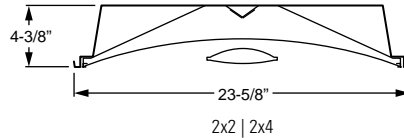
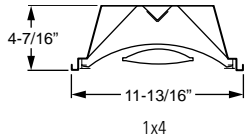
EXAMPLE

AT1 - 2 4 - L70/835 - D - OPTIONS - DIM - UNV

SERIES NOM. W. NOM. L. LUMEN PACKAGE CRI & CCT SHIELDING OPTIONS/ACCESSORIES DRIVER VOLTAGE



CROSS SECTIONS



ORDERING INFORMATION

SERIES

AT1 Architectural LED Troffer – Curved Floating Center

NOMINAL WIDTH

1 1'
2 2'

NOMINAL LENGTH

2 2' (2' width only)
4 4'

LED PACKAGE

Example: L70/835			WATTAGE
LUMEN PACKAGE	NOMINAL LUMENS	MINIMUM CRI & CCT	
1x4			
L20	2,000	827 = 82 CRI, 2700K	20
L30	3,000		28
L40	4,000		39
L50	5,000		51
L63	6,300		63
2x2			
L20	2,000	830 = 82 CRI, 3000K	21
L30	3,000	835 = 82 CRI, 3500K	31
L40	4,000	840 = 82 CRI, 4000K	44
L50	5,000	850 = 82 CRI, 5000K	50
2x4			
L30	3,000		31
L40	4,000		42
L55	5,500		59
L70	7,000		70
L85	8,500		75
L100	10,000		96

Nominal lumen output based on 3500 CCT. Actual lumens may vary +/-5%, see fixture performance data. Additional LED lumen packages available, see options.

SHIELDING

D Diffuse matte acrylic center
P Perforated center (decreases lumen output by 15%)

OPTIONS

For flexible whip options, see [Technical Info](#). See page 2 for fixture details.

EM/10W 10-watt emergency LED battery (120V-277V only; 2x2, 2x4 only)

EM/10WLP Low-profile 10-watt emergency LED battery (120V-277V only; 1x4 only)

EQCLIPS (L__) Earthquake clips (4 per fixture). Additional lower lumen packages available. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package. Example: 5,000 nominal lumens = AT1-24-L55/835-D-(**L50**).

SS Gasketed clear flat acrylic lens (not available with OCC option)

AMW Anti-microbial white finish
NEMA F NEMA Type "F" flange kit, factory-installed
CP Chicago Plenum (CCEA)

DRIVER

Additional dimming drivers available, see [Technical Info](#).

DRV Driver prewired for non-dimming applications

DIM 10% dimming driver prewired for 0-10V low voltage applications

VOLTAGE

120 120V
277 277V
UNV 120-277V
347 347V (not available with EM drivers)

FEATURES

- ▶ Curved floating lens effect creates an appealing visual appearance.
- ▶ Matte white paint and diffuse lens combination provide pleasing architectural aesthetics with non-glare reflective surfaces
- ▶ Quiet and smooth illumination for visual comfort
- ▶ Hinged door frame with optical assembly swings down to allow easy access from room side of fixture
- ▶ Optional gasketed acrylic lens adds extra layer of protection
- ▶ Rated for 25°C ambient operating temperature.
- ▶ This fixture is proudly made in the USA



LED

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" standard, NEMA Type "F" available.
- Labels** –
- cETLus conforms to UL STD 1598 and UL STD 8750.
 - Certified to CAN/CSA STD C22.2 No. 250.0.
 - Suitable for damp locations.
 - IC-rated for direct contact with insulation.
 - DesignLights Consortium qualified product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at www.designlights.org/QPL.
 - City of Chicago Environmental Air approved when specified with CP option.
- Warranty** – 5-year limited warranty, see hew.com/warranty.

IMPORTANT:

Electrostatic sensitive unit. Observe precautions when handling.

FIXTURE PERFORMANCE DATA

LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (LM/W)
1x4			
L20	2048	20	102.4
L30	3003	28	107.3
L40	4052	39	103.9
L50	4826	51	94.6
L63	6294	63	99.9
2x2			
L20	1974	21	94.0
L30	2843	31	91.7
L40	3747	44	85.2
L50	4919	50	98.4
2x4			
L30	3085	31	99.5
L40	4003	42	95.3
L55	5445	59	92.3
L70	6965	70	99.7
L85	8445	75	112.6
L100	10445	96	108.8

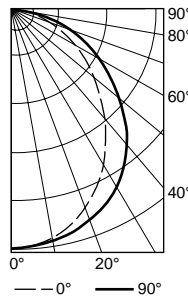
MULTIPLIER TABLE

COLOR TEMPERATURE	
CCT/CRI	CONVERSION FACTOR
2700K/80CRI	0.97
3000K/80CRI	0.99
3500K/80CRI	1.00
4000K/80CRI	1.03
5000K/80CRI	1.06

- 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

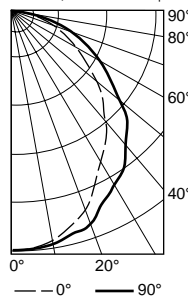
AT1-22-L40/835-D-DIM-UNV Report #: 18874.0; 06/02/15 | Total Luminaire Output: 3747 lumens; 44 Watts
Efficacy: 85.2 lm/W | 82 CRI; 3500K CCT | IES Spacing Criteria: End: 1.1, Across: 1.3, Diagonal: 1.2



Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	1452.	1452.	1452.	
5	1448.	1443.	1444.	137.9
15	1362.	1379.	1402.	391.3
25	1200.	1250.	1319.	581.5
35	987.	1085.	1180.	681.1
45	757.	862.	960.	667.5
55	544.	654.	723.	574.4
65	341.	442.	509.	429.5
75	165.	244.	273.	246.4
85	28.	36.	33.	37.2
90	0.	0.	0.	

LUMEN SUMMARY	Zone	Lumens	% Fixture
	0 - 30	1111.	29.6
	0 - 40	1792.	47.8
	0 - 60	3034.	81.0
	0 - 90	3747.	100.0
	0 - 180	3747.	100.0

AT1-24-L70/835-D-DIM-UNV Report #: 18880.0; 06/10/15 | Total Luminaire Output: 6965 lumens; 70 Watts
Efficacy: 99.7 lm/W | 82 CRI; 3500K CCT | IES Spacing Criteria: End: 1.1, Across: 1.3, Diagonal: 1.2

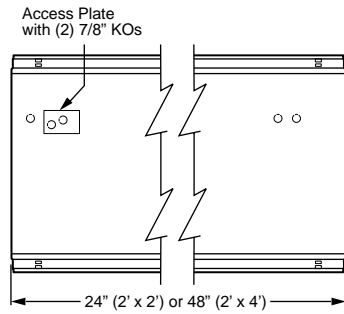


Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	2634.	2634.	2634.	
5	2614.	2614.	2618.	249.6
15	2455.	2496.	2541.	707.7
25	2125.	2230.	2347.	1033.7
35	1785.	1971.	2134.	1234.3
45	1403.	1640.	1781.	1250.2
55	987.	1209.	1311.	1057.2
65	650.	857.	920.	814.7
75	338.	500.	514.	494.4
85	101.	102.	107.	122.9
90	0.	0.	0.	

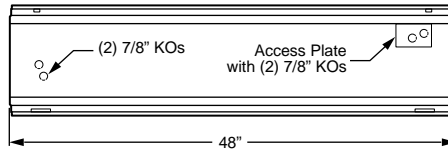
LUMEN SUMMARY	Zone	Lumens	% Fixture
	0 - 30	1991.	28.6
	0 - 40	3225.	46.3
	0 - 60	5533.	79.4
	0 - 90	6965.	100.0
	0 - 180	6965.	100.0

FIXTURE DETAILS

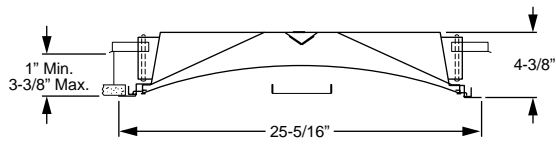
2x2 | 2x4 BACK VIEW



1x4 BACK VIEW



NEMA TYPE "F" INSTALLATION



Note: Maximum recommended ceiling opening is 24-3/8" x 24-38" 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.

