

# ARCHITECTURAL LED TROFFER – CURVED FLOATING CENTER

# AT1

tunable **COLOR**

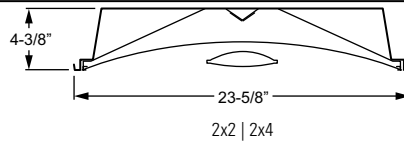
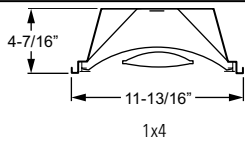


CATALOG #:	TYPE:
PROJECT:	NOTES:

**EXAMPLE** → **AT1 - 2 4 - L80/9TC - D - OPTIONS - DALI - 120**

SERIES    NOM. W.    NOM. L.    LUMEN PACKAGE    COLOR    SHIELDING    OPTIONS    CONTROL    VOLTAGE

## CROSS SECTIONS



## ORDERING INFORMATION

### SERIES

**AT1** Architectural LED Troffer – Curved Floating Center – Tunable Color

### NOMINAL WIDTH

**1** 1'  
**2** 2'

### NOMINAL Length

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

### LED PACKAGE

	Example: L80/9TC		WATTAGE
	LUMEN PACKAGE	NOMINAL LUMENS	
1x4	<b>L38</b>	3800	56
2x2	<b>L38</b>	3800	56
2x4	<b>L80</b>	8000	111

Nominal lumen output based on 4000 CCT. Actual lumens may vary +/-5%, see fixture performance data.

### COLOR

**9TC** Tunable color (90 CRI, 1650K–8000K and color)

### SHIELDING

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

### OPTIONS

**EQCLIPS** Earthquake clips (4 per fixture)  
**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 (see page 2 for details)  
**CP** Chicago Plenum (CCEA)

### CONTROL

See page 2 for details.  
**BTL** Bluetooth LE enabled  
**DALI** DALI Type 8 enabled  
**DIM** (1) 0-10V signal to control dimming  
(1) 0-10V signal to control CCT (will only control white light CCT range, will not have pure color output)  
**DMX** DMX enabled  
**LUT** Lutron Ecosystem enabled  
**WS** Wattstopper DLM enabled

### VOLTAGE

**120** 120V  
**277** 277V

## FEATURES

- ▶ Tunable color from 1650K to 8000K CCT, minimum 90 CRI.
- ▶ 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
- ▶ This fixture is proudly made 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** – Five color, mid-power LED modules. On board thermal and optical feedback ensure color consistency of <2 step MacAdam ellipse (SDCM) and L70>50,000 hours. In-line spectral capture and storage results in consistent CRI and CCT across all arrays.

**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.
- City of Chicago Environmental Air approved when specified with CP option.

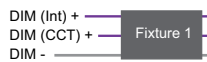
**Warranty** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

### IMPORTANT:

Electrostatic sensitive unit. Observe precautions when handling.

### CONTROL DETAILS

**DIM**



**DALI**



**Lutron Ecosystem**



**Wattstopper DLM**



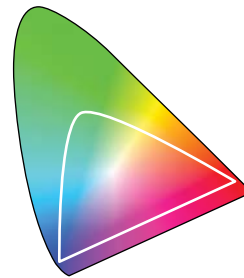
### FIXTURE PERFORMANCE DATA

	COLOR	DELIVERED LUMENS	POWER (W)	EFFICACY (lm/W)
1x4	4000	3815	55.8	68.4
	Red	584	15.2	38.4
	Blue	354	24.5	14.5
2x2	Green	2843	30.3	93.8
	4000	3766	55.8	67.5
	Red	577	15.2	38.0
2x4	Blue	350	24.5	14.3
	Green	2807	30.3	92.6
	4000	8021	111.6	71.9
2x4	Red	1228	30.4	40.4
	Blue	745	49.0	15.2
	Green	5978	60.6	98.6

- 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 4000K, 90 CRI, actual lumens may vary +/-5%
- Use multiplier table to calculate additional options.

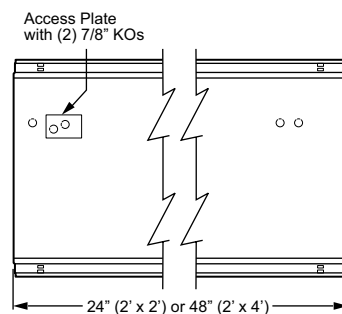
### MULTIPLIER TABLE

CCT	CONVERSION FACTOR	
	LUMENS	WATTAGE
2000K	0.58	0.58
2700K	0.85	0.83
3000K	0.96	0.94
3500K	0.98	0.97
4000K	1.00	1.00
5000K	0.99	0.99
6000K	0.99	0.99
8000K	0.99	0.99

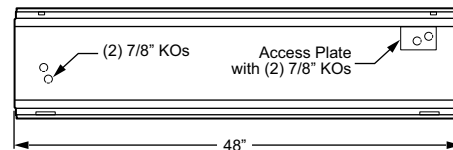


### FIXTURE DETAILS

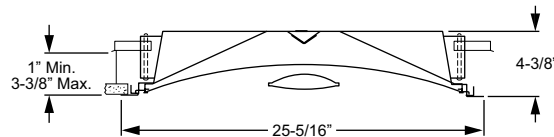
2x2 | 2x4 BACK VIEW



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.

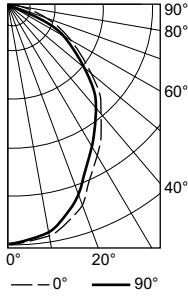
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## PHOTOMETRY

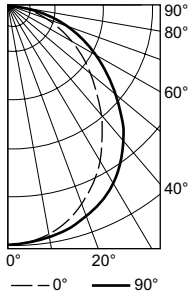
**AT1-14-L38/9TC-D-DALI** Total Luminaire Output: 3815 lumens; 56 Watts  
Efficacy: 68 lm/W | 82 CRI; 4000K CCT | IES Spacing Criteria: End: 1.1, Across: 1.1, Diagonal: 1.1



CANDLEPOWER DISTRIBUTION	Vertical Angle	Horizontal Angle			Zonal Lumens
		0°	45°	90°	
	0	1731	1731	1731	
	5	1745	1743	1742	164
	15	1629	1619	1613	457
	25	1417	1397	1384	647
	35	1176	1157	1140	719
	45	900	883	871	681
	55	612	611	596	550
	65	398	398	319	372
	75	192	160	144	182
	85	51	32	23	43
	90	0	0	0	

LUMEN SUMMARY	Zone	Lumens	% Fixture
	0 - 30	1268	33
	0 - 40	1987	52
	0 - 60	3218	84
	0 - 90	3815	100
	0 - 180	3815	100

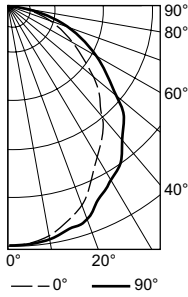
**AT1-22-L38/9TC-D-DALI** Total Luminaire Output: 3766 lumens; 56 Watts  
Efficacy: 67 lm/W | 82 CRI; 4000K CCT | IES Spacing Criteria: End: 1.1, Across: 1.3, Diagonal: 1.2



CANDLEPOWER DISTRIBUTION	Vertical Angle	Horizontal Angle			Zonal Lumens
		0°	45°	90°	
	0	1426	1426	1426	
	5	1421	1416	1417	135
	15	1347	1358	1380	384
	25	1184	1246	1308	573
	35	985	1075	1178	674
	45	752	874	967	669
	55	541	658	742	581
	65	352	447	515	437
	75	176	256	296	255
	85	34	48	45	59
	90	0	0	0	

LUMEN SUMMARY	Zone	Lumens	% Fixture
	0 - 30	1092	29
	0 - 40	1766	47
	0 - 60	3016	80
	0 - 90	3766	100
	0 - 180	3766	100

**AT1-24-L80/9TC-D-DALI** Total Luminaire Output: 8021 lumens; 112 Watts  
Efficacy: 72 lm/W | 82 CRI; 4000K CCT | IES Spacing Criteria: End: 1.1, Across: 1.3, Diagonal: 1.2



CANDLEPOWER DISTRIBUTION	Vertical Angle	Horizontal Angle			Zonal Lumens
		0°	45°	90°	
	0	3082	3082	3082	
	5	3076	3076	3080	291
	15	2899	2947	3001	827
	25	2489	2614	2752	1210
	35	2091	2302	2495	1426
	45	1613	1880	2045	1418
	55	1135	1388	1503	1211
	65	743	974	1053	926
	75	394	579	589	562
	85	108	110	117	151
	90	0	0	0	

LUMEN SUMMARY	Zone	Lumens	% Fixture
	0 - 30	2329	29
	0 - 40	3755	47
	0 - 60	6383	80
	0 - 90	8021	100
	0 - 180	8021	100

