

CATALOG #: \_\_\_\_\_

Type: \_\_\_\_\_

PROJECT: \_\_\_\_\_



## FEATURES

- Architectural design with a distinct floating center detail elevates the style in labs, cleanrooms and other controlled environments
- Backlit curved lens provides uniform illumination for visual comfort
- Seam-welded fixture housing and door frame are designed for infection control
- Smooth surface door frame and lens materials simplify cleaning and maintenance
- NSF approved closed cell foam gasketing in three locations meets all required testing criteria for ISO 5, Class 100 certification
- Anti-microbial finish suppresses the spread of dangerous micro-organisms, mold, and bacterial growth
- Made Right Here<sup>®</sup> in the USA

## SPECIFICATIONS

- HOUSING** – 20-gauge die-formed, seam-welded C.R.S. standard. 18-gauge aluminum available.
- DOOR FRAME** – One-piece 20-gauge seam-welded C.R.S. 18-gauge aluminum available. Secured from one side with stainless steel safety cables. Attached to fixture using captive, stainless steel screws.
- SHIELDING** – Curved or straight diffuse acrylic insert with polycarbonate underlay.
- FINISH** – 92% minimum average reflective white anti-microbial powder coating bonded to phosphate-free, multi-stage pretreated metal. Salt spray tested, 1,000 hours (ASTM B117). All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL** – High-quality mid-power LED boards. L70 at 50,000 hours. 50/60hz, THD < 10%
- MOUNTING** – NEMA Type “G” 15/16” or 1-1/2” grid standard. Drywall flange type available. See page 3 for FIXTURE WEIGHTS.
- LISTINGS** –
  - cCSAus certified as luminaire suitable for wet location under covered ceiling
  - IC-rated for direct contact with insulation
  - IP65 rated
  - ISO 5, Class 100 rated
  - NSF/ANSI 2
  - City of Chicago Environmental Air approved
  - Complies with the Buy American Act and other federal regulations. Request certification at [hew.com/baa](http://hew.com/baa).
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

**ORDERING EXAMPLE: MCTA G - 24 - L47/840 - CS - S C PC - OPTIONS - DRV - UNV**

## ORDERING INFO

SERIES	CEILING TYPE	WIDTH	LENGTH	LUMENS <sup>(1)</sup>	CRI	CCT	HOUSING
MCTA	G 15/16” or 1-1/2” grid	2 2’	2 2’	2x2	8 80	27 2700K	CS Cold rolled steel
				L34 3,400lm	9 90	30 3000K	AL Aluminum
	F Flange	4 4’	L68 6,800lm		35 3500K		
			2x4		40 4000K		
			L59 5,900lm		50 5000K		
			L118 11,800lm				

DOOR FRAME	INSERT	SHIELDING	OPTIONS
S Cold rolled steel	C Curved floating	PC Clear polycarbonate underlay, .080” thick	EM/10W 10-watt emergency battery
F Aluminum	S Straight floating	CA Clear acrylic underlay, .080” thick	(L____) Additional lower lumen packages available <sup>(2)</sup> Example: 3,000 nominal lumens = MCTAG-24-L47/840-(L30)
			EQCLIPS Earthquake clips <sup>(3)</sup>
			GLR Fuse, fast blow, one per driver
			TP Tamper resistant stainless steel, Torx T-25 screws <sup>(4)</sup>

CONTROL	VOLTAGE
DIM Dimming driver, 0-10V	UNV 120-277V
DRV Non-dimming driver	
DIM1 1% Dimming driver, 0-10V	

## ACCESSORIES

**TPTX-25 TOOL** Tamper-resistant tool for Torx T-25 screws. <sup>(5)</sup>

## NOTES

- Lumen output based on 80 CRI/4000K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- G Ceiling Type only. 4 per fixture.
- Requires a tamper-resistant tool, see Accessories. When TP option is specified, fixture is not NSF/ANSI 2 certified.
- Tamper-resistant tool must be ordered separately. Please specify quantity required per project.

## FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
2x2	L34	3462	27.3	127
	L68	6779	58.5	116
2x4	L59	5964	46.3	129
	L118	11818	94.2	125

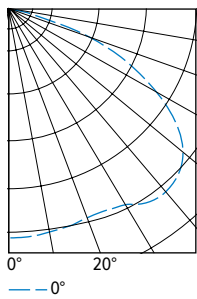
- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/4000K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier table to calculate additional options.

## MULTIPLIER TABLE

COLOR TEMPERATURE		
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.94
	3000K	0.96
	3500K	0.97
	4000K	1.00
	5000K	1.03
90 CRI	2700K	0.77
	3000K	0.79
	3500K	0.80
	4000K	0.83
	5000K	0.86

## PHOTOMETRY

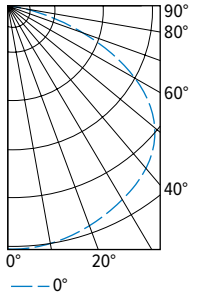
**MCTAG-22-L68/840-CS-SCPC-DIM-UNV** Total Luminaire Output: 6779 lumens; 58.5 Watts | Efficacy: 116 lm/W | 80 CRI; 4000K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	2073	2073	2073	
	5	2051	2068	2064	196
	15	1967	2006	2032	566
	25	1806	1893	2016	880
	35	1579	1783	2140	1141
	45	1301	1680	2139	1305
	55	984	1454	1848	1268
	65	634	1050	1193	954
	75	283	451	317	417
	85	36	36	32	52
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1642	24
	0 - 40	2783	41
	0 - 60	5356	79
	0 - 90	6779	100
	90 - 180	0	0

**MCTAG-24-L118/840-CS-SCPC-DIM-UNV** Total Luminaire Output: 11818 lumens; 94.2 Watts | Efficacy: 125 lm/W | 80 CRI; 4000K CCT

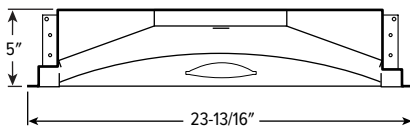


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	3894	3894	3894	
	5	3867	3872	3897	369
	15	3712	3757	3824	1063
	25	3414	3533	3700	1637
	35	2995	3222	3540	2033
	45	2473	2816	3292	2200
	55	1872	2314	2818	2078
	65	1206	1680	1893	1578
	75	527	785	775	758
	85	66	63	61	104
	90	0	0	0	

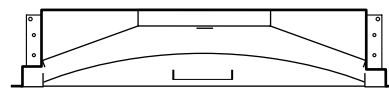
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	3069	26
	0 - 40	5102	43
	0 - 60	9379	79
	0 - 90	11818	100
	90 - 180	0	0

## CROSS SECTIONS

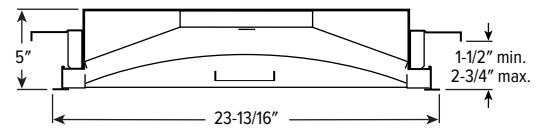
### C INSERT



### S INSERT



### F CEILING TYPE INSTALLATION



For continuous row mounting, add 47-13/16" for each additional fixture to obtain ceiling opening. 3/4" between end plates.

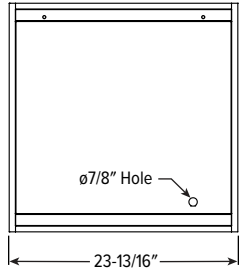


# MCTA<sup>LED</sup> Architectural Clean Room Troffer

## FIXTURE DETAILS

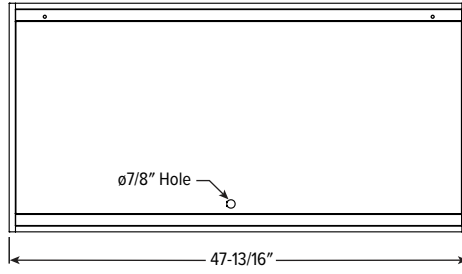
### BACK VIEWS

2x2



Recommended Ceiling Opening:  
22-15/16" x 22-13/16"

2x4



Recommended Ceiling Opening: 22-15/16" x 46-13/16"

### FIXTURE WEIGHTS

	HOUSING MATERIAL	DOOR MATERIAL	MAXIMUM WEIGHT
2x2	CS	CS	34 lb
		AL	32 lb
	AL	CS	28 lb
		AL	26 lb
2x4	CS	CS	56 lb
		AL	53 lb
	AL	CS	44 lb
		AL	41 lb

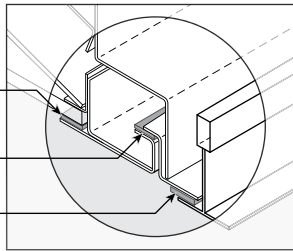
## GASKETING DETAILS

### T-BAR

Shielding gasketing factory-installed between door frame and lens reduces dust and bug contaminants.

Door frame gasketing factory-installed between door frame and luminaire housing prevents light leak and reduces dust ingress.

Housing gasketing (supplied with fixture) field installed between bottom perimeter of fixture and T-bar ceiling seals plenum dust from the room.



### DRYWALL

Between perimeter of fixture and hardpan ceiling.

