

CATALOG #: _____

TYPE: _____

PROJECT: _____

FEATURES

- Designed to meet the demanding requirements of controlled environments
- Seam-welded fixture housing and doorframe are designed for infection controlled environments
- Smooth surface doorframe and lens materials simplify cleaning and maintenance
- Optional MIL-STD-461G for environments requiring conducted emission mitigation
- NSF approved closed cell foam gasketing meets all required testing criteria for ISO 5, Class 100 certification
- Anti-microbial white finish is standard
- Optimized for hospitals, medical facilities and containment sensitive manufacturing facilities utilizing 15/16" and 1-1/2" face T-bars
- Narrow-spectrum color LEDs available for vivarium and manufacturing applications, consult factory
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING** – 20-gauge die-formed, seam-welded C.R.S. Aluminum and stainless steel options available.
- DOOR FRAME** – One-piece 20-gauge seam-welded C.R.S. Hinged from one side with stainless steel safety cables. Attached to fixture using captive, stainless steel screws.
- SHIELDING** – Choice of frosted lens with smooth clear acrylic or polycarbonate underlay.
- FINISH** – 92% minimum average reflective white anti-microbial powder coating 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. Rated for 50,000 hours at 70% lumen maintenance (L70).
- MOUNTING** – NEMA Type "G" for 15/16" and 1-1/2" systems. NEMA Type "F" available.
- LISTINGS** –
 - CCSAUS certified as luminaire suitable for wet location under covered ceiling.
 - IC-rated for direct contact with insulation. ^[17]
 - IP65 rated
 - ISO 5, Class 100 rated
 - NSF/ANSI 2
 - Complies with MIL-STD-461G when specified with MIL option
 - City of Chicago Environmental Air approved (not available when specified with NSWH)
- WARRANTY** – 5-year limited warranty, see www.hew.com/warranty.

ORDERING EXAMPLE: MCTG - 24 - L208/835 - CS - SAF12125 - OPTIONS - DRV - UNV

ORDERING INFO

SERIES	CEILING TYPE	WIDTH	LENGTH	LUMENS ^[1]	CRI	CCT
MCT	G NEMA Type "G"	1 1' ^[3]	2 2' ^[4]	1x4	8 80	30 3000K
		F NEMA Type "F" ^[2]	2 2'	4 4'	L40 4,000lm	9 90 ^[5]
				L79 7,900lm		40 4000K
						50 5000K
				2x2		
				L34 3,400lm		
				L65 6,500lm		
				L95 9,500lm		
				2x4		
				L60 6,000lm		
				L121 12,100lm		
				L208 20,800lm		

HOUSING ^[6]	DOOR FRAME ^[7]	SHIELDING
CS 20-gauge C.R.S.	S Flat white steel	AF12125 Pattern #12, .125" thick with acrylic underlay
AL Flat white aluminum	F Flat white aluminum	AF125 .125" thick with acrylic underlay
		AF19156 Pattern #19, .156" thick with acrylic underlay
		AF12125/PC Pattern #12, .125" thick with polycarbonate underlay
		AF125/PC .125" thick with polycarbonate underlay
		AF19156/PC Pattern #19, .156" thick with polycarbonate underlay

OPTIONS	CONTROL ^[8]	VOLTAGE
EM/10W 10-watt emergency battery ^[9]	DRV Non-dimming driver	UNV 120-277V
EM/10WLP Low-profile 10-watt emergency battery ^[10]	DIM Dimming driver	347 347V ^[16]
(L_) Additional lower lumen packages available. Example: 15,000 nominal lumens = MCTG-24-L208/835-(L150) ^[11]		
EQCLIPS Earthquake clips ^[12]		
MIL Complies with MIL-STD-461G specifications		
TG Triple gasket ^[13]		
NSWH Fixture provided without seam-welded housing ^[14]		
TP Tamper resistant stainless steel, Torx T-25 screws		
2C Two circuit wiring ^[15]		

NOTES

- Nominal lumen output based on 3500 CCT. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- Additional lumen packages available, see options.
- See page 3 for NEMA TYPE "F" INSTALLATION.
- 4' length only.
- 2' width only.
- Extended lead times may apply. Consult factory for availability.
- Stainless steel options available, consult factory.
- Stainless steel options available, consult factory.
- See page 3 for ADDITIONAL CONTROL OPTIONS.
- 120V-277V only; 2x2, 2x4 only.
- 120V-277V only; 1x4 only.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- NEMA Type "G" only. 4 per fixture.
- See page 3 for GASKETING DETAILS.
- NSWH option does not affect NSF, ISO, IP65, or MIL-STD461G listings. Fixture is not City of Chicago Environmental Air approved when specified with NSWH.
- Inboard-outboard wiring where applicable unless specified otherwise. Allows for independent dimming of each circuit when ordered with DIM driver configuration. Consult factory for additional wiring configurations.
- Not available with MIL or EM options.
- Only available with 1x4: L40, 2x2: L34 and L65, 2x4: L60 and L121.



FIXTURE PERFORMANCE DATA

	LED PACKAGE	AF12125 SHIELDING			AF125 SHIELDING		
		DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
1x4	L40	4021	34.0	118.4	3615	34.0	106.5
	L79	7962	67.4	118.2	7158	67.4	106.2
2x2	L34	3452	28.6	120.7	3103	28.6	108.5
	L65	6522	52.9	123.3	5863	52.9	110.9
	L95	9534	80.8	118.0	8571	80.8	106.1
2x4	L60	6078	46.7	130.1	5464	46.7	117.0
	L121	12124	91.9	132.0	10899	91.9	118.6
	L208	20805	169.2	123.0	18704	169.2	110.6

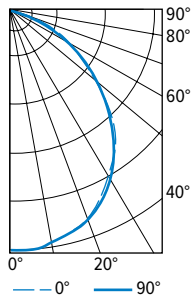
- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is average for 120V through 277V input.
- Results based on 3500K, 80 CRI, actual lumens may vary +/-5%
- Use multiplier table to calculate additional options.

MULTIPLIER TABLES

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	3000K	0.99
	3500K	1.00
	4000K	1.03
	5000K	1.06
90 CRI	3000K	0.83
	3500K	0.84
	4000K	0.86
	5000K	0.90

PHOTOMETRY

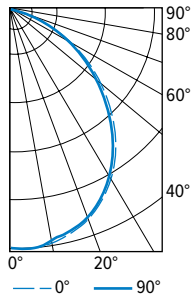
MCTG-22-L95/835-SAF12125-DRV-UNV Total Luminaire Output: 9534 lumens; 80.8 Watts | Efficacy: 118.0 lm/W | 82.8 CRI; 3536K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	4239	4239	4239	
	5	4228	4224	4215	401
	15	4042	4057	4059	1145
	25	3669	3719	3716	1708
	35	3081	3158	3127	1954
	45	2330	2324	2357	1795
	55	1504	1475	1482	1334
	65	820	776	775	799
	75	338	290	298	342
	85	37	22	36	55
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	3254	34
	0 - 40	5208	55
	0 - 60	8337	88
	0 - 90	9534	100
	0 - 180	9534	100

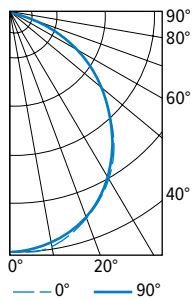
MCTG-24-L208/835-SAF12125-DRV-UNV Total Luminaire Output: 20805 lumens; 169.2 Watts | Efficacy: 123.0 lm/W | 82.8 CRI; 3536K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	9063	9063	9063	
	5	9108	8999	8980	857
	15	8752	8679	8655	2447
	25	7995	7954	7923	3653
	35	6819	6746	6686	4201
	45	5202	5174	5033	3952
	55	3488	3420	3228	3007
	65	1864	1842	1709	1801
	75	680	699	694	763
	85	50	69	71	125
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	6956	33
	0 - 40	11157	54
	0 - 60	18117	87
	0 - 90	20805	100
	0 - 180	20805	100

MCTG-24-L208/835-SAF125-DRV-UNV Total Luminaire Output: 18704 lumens; 169.2 Watts | Efficacy: 110.6 lm/W | 83.5 CRI; 3530K CCT

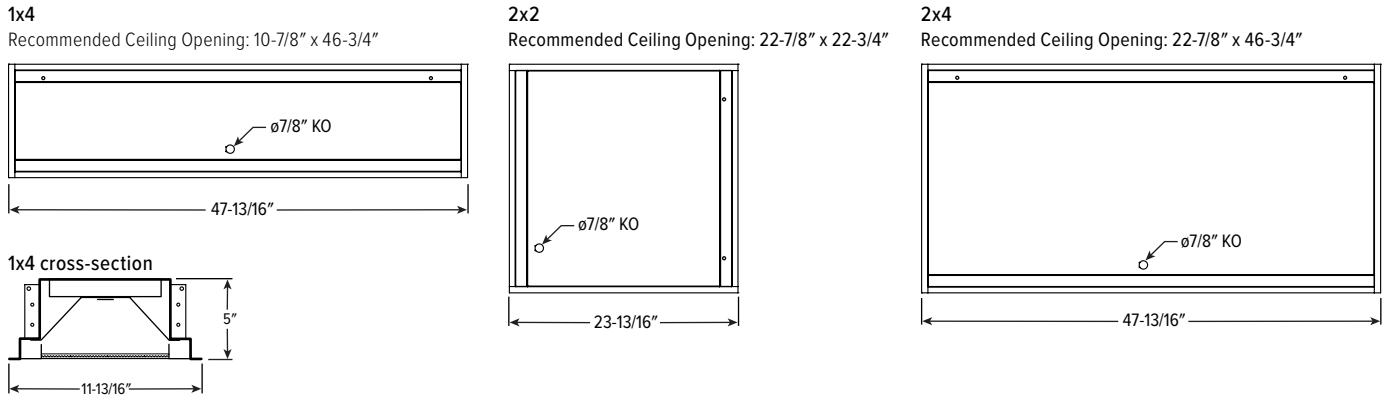


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	7962	7962	7962	
	5	7994	7902	7885	752
	15	7624	7571	7529	2132
	25	6878	6853	6826	3149
	35	5816	5781	5768	3616
	45	4530	4544	4548	3489
	55	3217	3131	3191	2824
	65	1837	1791	1849	1828
	75	720	746	690	785
	85	48	91	74	130
	90	0	0	0	

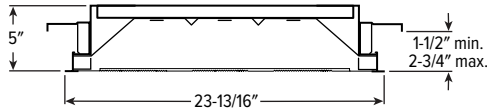
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	6033	32
	0 - 40	9649	52
	0 - 60	15962	85
	0 - 90	18704	100
	0 - 180	18704	100



FIXTURE DETAILS



NEMA TYPE "F" INSTALLATION



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

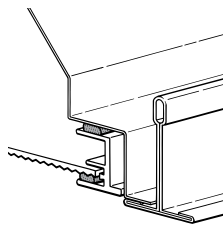
ADDITIONAL CONTROL OPTIONS

Note: Lumen restrictions apply, consult product builder at hew.com/product-builder.

CATALOG NUMBER	DESCRIPTION
DRV	Driver prewired for non-dimming applications
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (Must specify 120V or 277V only)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LTE LINE	Lutron Hi-lume 1% 2-wire dimming driver forward phase line voltage controls (120V only)
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver
LDE5	Lutron 5-Series 5% EcoSystem dimming LED driver
ELDO SOLOB	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls
ELDO SOLOB DALI	EldoLED Solodrive, 0.1% dimming driver for DALI controls
ELDO ECO1	EldoLED Ecodrive, 1% dimming driver for 0-10V controls
ELDO ECO1 DALI	EldoLED Ecodrive, 1% dimming driver for DALI controls

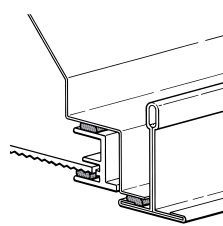
GASKETING DETAILS

DOUBLE GASKETING (STANDARD)



Gasketing is factory-installed continuously between door frame and luminaire housing; and between door frame and lens.

TRIPLE GASKETING (TG)



Gasketing is factory-installed continuously between door frame and luminaire housing; and between door frame and lens. Gasketing between bottom perimeter of unit (adjacent to T-bar or hardpan ceiling) is provided by factory and field-installed.

