

DESCRIPTION

The M Series combines a low-profile, surface modular design with the latest in energy-efficient technology. The dihedral recessed top design allows for cooler fixture operation. Other features include a die-formed housing, surface or stem mounting (single or continuous row), full seam-welded corners and a broad selection of attractive door frames.

The versatile modular M Series can be the perfect solution when used in applications such as commercial office spaces, schools, hospitals, and retail merchandising areas.

SPECIFICATION FEATURES

Construction

Housing die-formed code gauge prime cold rolled steel. Smooth sides permit flush joint for continuous row mounting. Dihedral recessed top design ensures cooler ballast operation. Die-formed captive lampholder bracket fully encloses wiring permitting easy lampholder replacement. Ballast covers easily removed without tools.

Electrical*

Ballasts are CBM/ETL Class "P" and are positively secured by mounting bolts. Pressure lock lampholders. UL/CUL listed. Suitable for damp locations.

Finish

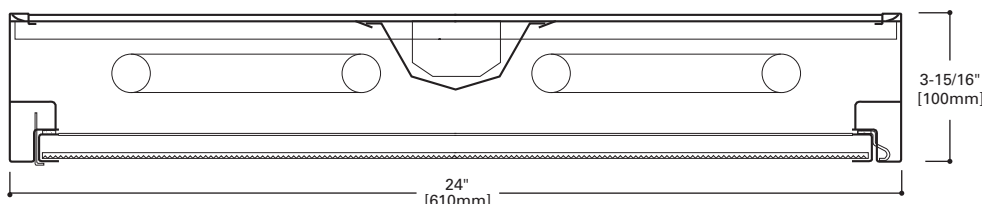
Painted after fabrication. Electrostatically applied baked white polyester powder enamel finish. Multistage cleaning cycle, iron phosphate coating with rust inhibitor. Conveyorized application and baking timing accurately controlled at an elevated temperature.

Hinging/Latching

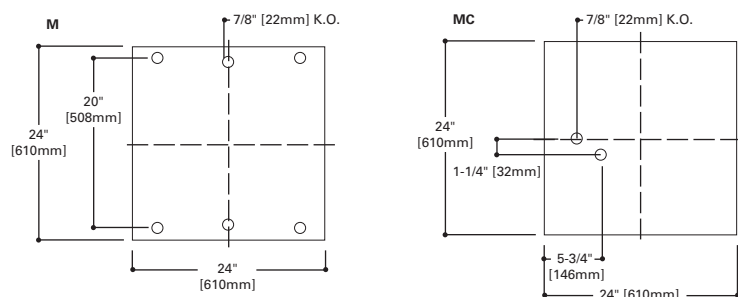
Positive cam action steel latches with baked white enamel finish. Safety lock T-hinges allow hinging and latching either side.

Frame/Shielding

Die-formed, flat white extruded aluminum door with reinforced corners and baked white enamel finish. Door frame quadra-sealed to prevent light spillage. Light stabilized 100% virgin acrylic prismatic shielding. Standard #12 pattern. Optional shielding available.



MOUNTING DATA

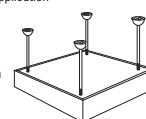


STEM MOUNTING METHODS

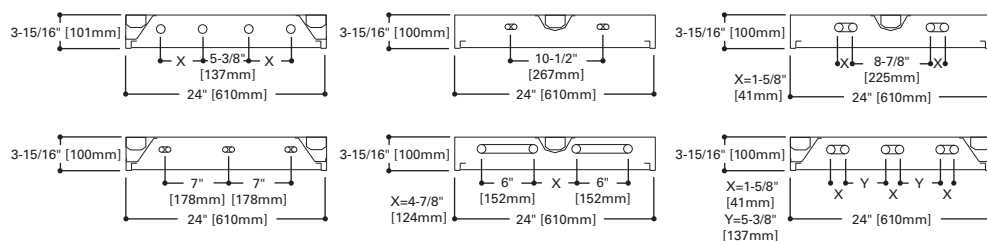
Consult Pre Sales Technical Support for Continuous Row Application

Fixture Application

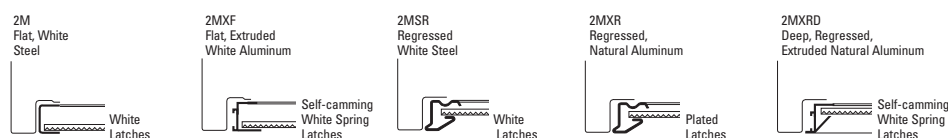
4 Point Suspension



LAMP CONFIGURATIONS



DOOR FRAMES



2M
417
2U6T8
2U1-5/8
2BX40
3U1-5/8
3BX40

2' X 2' SURFACE
4 LAMPS LTS
2' X 2' SURFACE
2 LAMPS

Surface Modular

ENERGY DATA

Input Watts:

EB Ballast & STD Lamps

417 (45), 2U6 (72), 2U6T8 (61)

2U1-5/8 (61), 2BX40 (67)

3U1-5/8 (91), 3BX40 (110)

Luminaire Efficacy Rating

LER = FL-58

Catalog Number: 2M-2U6T8A

Yearly Cost of 1000 lumens,

3000 hrs at .08 KWH = \$4.14

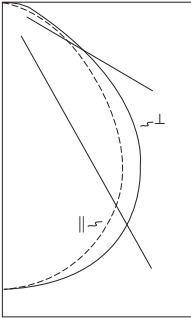
*Reference the lamp/ballast data in the Technical Section for specific lamp/ballast requirements.

LAMPS CONTAIN MERCURY. DISPOSE ACCORDING TO LOCAL, STATE OR FEDERAL LAWS

LINEAR DISCONNECT

Safe and convenient means of disconnecting power.

PHOTOMETRICS



2M-2U6T8A
Energy Saving
Ballast
FB31T8/TL735/6
Lamps
2600 Lumens
Spacing criterion:
(H) 1.2 x mounting
height, (φ) 1.3 x
mounting height
Efficiency 71.0%
Test Report:
2M2U6T8A.IES
LER = FL-58
Yearly Cost of 1000
lumens, 3000 hrs at
.08 KWH = \$4.14

Coefficients of Utilization

Effective floor cavity reflectance												20%											
rc	80%				70%				50%				30%				10%				0%		
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																							
0	85	85	85	85	83	83	83	83	79	79	79	76	76	76	72	72	72	71					
1	78	75	73	70	76	74	71	69	71	69	67	68	66	65	65	64	63	62					
2	72	67	63	59	70	66	62	59	63	60	57	61	58	56	59	57	55	53					
3	67	60	55	51	65	59	54	51	57	53	50	55	52	49	53	50	48	47					
4	62	54	48	44	60	53	48	44	51	47	43	50	46	43	48	45	42	41					
5	57	48	42	38	55	47	42	38	46	41	37	45	40	37	43	40	37	35					
6	52	43	38	33	51	43	37	33	42	37	33	40	36	33	39	35	32	31					
7	48	39	33	29	47	39	33	29	38	33	29	37	32	29	36	32	28	27					
8	45	35	29	25	43	35	29	25	34	29	25	33	28	25	32	28	25	24					
9	41	32	26	22	40	31	26	22	30	25	22	30	25	22	29	25	22	20					
10	38	29	23	19	37	28	23	19	28	23	19	27	22	19	26	22	19	18					

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1169	22.5	31.7
0-40	1905	36.6	51.6
0-60	3138	60.3	85.0
0-90	3692	71.0	100.0
0-180	3692	71.0	100.0

Typical VCP Percentages

Room Size (Ft.)	Height Along		Height Across	
	8.5'	10.0'	8.5'	10.0'
20 x 20	63	67	59	64
30 x 30	56	60	53	57
30 x 60	48	50	43	46
60 x 30	58	62	56	60
60 x 60	48	51	45	48

Candela

Angle	Along H	45°	Across L
0	1485	1485	1485
5	1479	1478	1485
10	1455	1460	1477
15	1413	1430	1460
20	1357	1388	1432
25	1286	1331	1387
30	1197	1255	1315
35	1089	1152	1227
40	961	1023	1122
45	807	868	999
50	643	721	845
55	507	580	662
60	395	427	470
65	305	295	320
70	228	191	237
75	166	131	192
80	123	105	147
85	66	60	82
90	0	0	0

ORDERING INFORMATION

SAMPLE NUMBER: 2M-2U6T8A-120V-EB81-U

Width 2=2' Width	Number of Lamps⁽³⁾ 2=2 Lamps 3=3 Lamps 4=4 Lamps (Not Included)	Voltage⁽⁴⁾ 120=120V 277=277V 347=347V UNV=Universal Voltage 120-277V ⁽⁵⁾	Ballast Type⁽³⁾ Blank=Standard Magnetic Ballast (40W Biax only) EB8_=T8 Electronic Start. Total Harmonic Distortion < 10% EB8_/PLUS=T8 Electronic Start. Total Harmonic Distortion < 10%. High Ballast Factor > 1.15. ER8_=T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10% EB5_=T5 Biax Electronic Instant Start⁽⁸⁾ Total Harmonic Distortion < 20% TEB5_=T5 Biax Electronic Instant Start⁽⁸⁾ Total Harmonic Distortion < 10% ER5_=T5 Biax Electronic Program Rapid Start. Total Harmonic Distortion < 10% High Performance T8 Ballasts HB8_=T8 Electronic Instant Start. Total Harmonic Distortion < 10%. Standard Ballast Factor .86 – .88 HB8_L=T8 Electronic Instant Start. Total Harmonic Distortion < 10%. Low Ballast Factor .77 – .82 HB8_N=T8 Electronic Instant Start. Total Harmonic Distortion < 10%. Normal Ballast Factor 1.0 HB8_H=T8 Electronic Instant Start. Total Harmonic Distortion < 10%. High Ballast Factor 1.15 – 1.20 HR8_=T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. Standard Ballast Factor .86 – .88 HR8_DIM=T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. Step Dimming. Ballast Factor .88 HR8_L=T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. Low Ballast Factor .71 – .79 HR8_H=T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. High Ballast Factor 1.15 – 1.20	Options VRS=Vandal Resistant Screws⁽⁶⁾ SMB=Side Mount Ballast EKO=End Plate with 7/8" KO (Required for Continuous Row Mounting)⁽⁷⁾ Packaging U=Unit Pack
Door Frame Standard=Flat White Steel Door (Leave Blank) FA=Flat White Extruded Aluminum c/w Spring Latch RA=Regressed White Extruded Aluminum Door FAN=Flush Natural Anodized Extruded Aluminum RAN=Regressed Natural Anodized Extruded Aluminum FAB=Flat Black Extruded Aluminum RAB=Regressed Black Extruded Aluminum	Wattage U6T8=32W T8 (24") 17=17W T8 (24") U15/8=31WT8 (24") BX40=40W Biax (24") Lens A=#12 Pattern Acrylic (Standard) A125=#12 Pattern Acrylic (.125" Thick) A19/156=#19 Pattern Acrylic (.156" Thick) PB1S=Silver Parabolic Louver	Options GL=Single Element Fuse GM=Double Element Fuse EL=Emergency Installed	Number of Ballasts 1=1 Ballast 2=2 Ballasts 3=3 Ballasts	ACCESSORIES (Order Separately) SCF=Fixed Stem Set (Specify Length) SCS=Swivel Stem Set (Specify Length) SCA=Adjustable 48" Stem Set (Additional Accessories Available. See Options and Accessories Section.

NOTES: ⁽¹⁾ 2' x 2', 2' x 4' require 4-point suspension, side mounted ballast recommended. ⁽²⁾ Full seam welded corners on 1' x 4', 2' x 2', 2' x 4' fixtures. ⁽³⁾ 1' x 4' 3-lamp, 2' x 4' 3-lamp have side mounted ballasts covers.

⁽⁴⁾ Products also available in non-US voltages and frequencies for international markets. ⁽⁵⁾ Not available when specifying emergencies, voltage must be specific. ⁽⁶⁾ Available on flat doors only. ⁽⁷⁾ For continuous row mounting 7/8" KOs furnished in end of fixture, specify EKO. ⁽⁸⁾ Not available in UNV voltages. Must specify voltage.

Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.

SHIPPING DATA

Catalog No.	Wt.
2M-417A	23 lbs.
2M-2U6T8A	20 lbs.
2M-2U1-5/8A	20 lbs.
2M-2BX40A	20 lbs.
2M-3U1-5/8A	21 lbs.
2M-3BX40A	21 lbs.