

FEATURES & SPECIFICATIONS

INTENDED USE

Surface or stem-mounted lensed fixture for general illumination in commercial offices and retail applications. **Certain airborne contaminants can diminish integrity of acrylic.** [Click here for Acrylic Environmental Compatibility table for suitable uses.](#)

CONSTRUCTION

Housing formed from cold-rolled steel. Plasma seam-welded corners provide a clean finish and eliminate light leaks. Standard steel door frame has superior structural integrity with premium extruded appearance and precision flush mitered corners. Steel door allows easy lens replacement without frame disassembly. Power-painted steel latches provide easy, secure door closure. Superior mechanical light seal requires no foam gasketing.

Finish: Five-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance. Painted parts finished with high-gloss, baked white enamel.

OPTICS

Standard pattern #12 lens is 100% virgin acrylic. Other lenses and diffusers available.

ELECTRICAL

Standard ballast is electronic, thermally protected, resetting, Class P, HPF, non-PCB, UL Listed, CSA Certified ballast. Universal voltage. Sound rated A. Luminaire is suitable for damp locations. AWM, TFN or THHN wire used throughout, rated for required temperatures.

LISTINGS

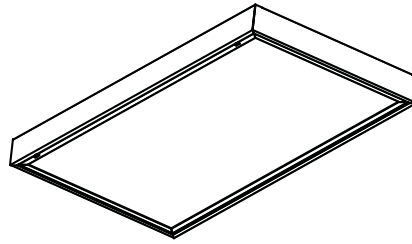
Standard: UL and CSA Certified.

WARRANTY

Guaranteed for one year against mechanical defects in manufacture.

Catalog Number	
Notes	Type

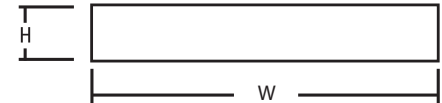
Modular Commercial M 2X4



2, 3 or 4 lamps

Specifications

Length: 48 (1220)
Width: 24-1/4 (616)
Height: 3-1/2 (82)
Weight: 24 lbs. (10.9 kg.)



All dimensions are inches (millimeters). Specifications subject to change without notice.

ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.

Example: 2M 2 32 A12125 MVOLT GEB10IS

2M		Lamps		Lamp type	Diffuser	Voltage	Options
Series	2M	2	3	32 32W T8 (48")	A12 #12 pattern acrylic	347	Shipped installed in fixture
		4	Not included.	28T5 28W T5 (46")	A12125 #12 pattern acrylic, .125" thick	MVOLT Others available.	1/3 One 3-lamp electronic ballast
				54T5HO 54W T5 high output (46")	A19 #19 pattern acrylic, .156" thick		1/4 One 4-lamp electronic ballast
					PC1S 1/2" x 1/2" x 1/2" plastic cube louver, silver		GEB10IS Electronic ballast, ≤10% THD, instant start (T8 only)
					PC2S 1-1/2" x 1-1/2" x 1-1/2" plastic cube louver, silver w/ flange ¹		GEB10RS Electronic ballast, ≤10% THD, rapid start (T8 only)
					PC3S 3/4" x 3/4" x 1/2" plastic cube louver, silver		GEB10PS Electronic ballast, <10% THD, program start (T5/T5HO only)
							EL14 Emergency battery pack
							GLR Internal fast-blow fuse
							GMF Internal slow-blow fuse
							LP735 Lamped; 700-series; 3500K
							LP741 Lamped; 700-series; 4100K
							LP835 Lamped; 800-series; 3500K
							LP841 Lamped; 800-series; 4100K
							FTC Top of fixture fully enclosed
							CRE Continuous row, end (KO in shroud end)
							CRM Continuous row, middle (KO in both ends)
							NOM NOM Certified

Frame type	
(blank)	Flush steel, white
FN	Flush aluminum, natural
FM	Flush aluminum, matte black
FW	Flush aluminum, white
RN	Regressed aluminum, natural
RM	Regressed aluminum, matte black
RW	Regressed aluminum, white

Accessories:

Order as separate catalog number.

SQ Swivel stem hanger (specify length in 2" increments).

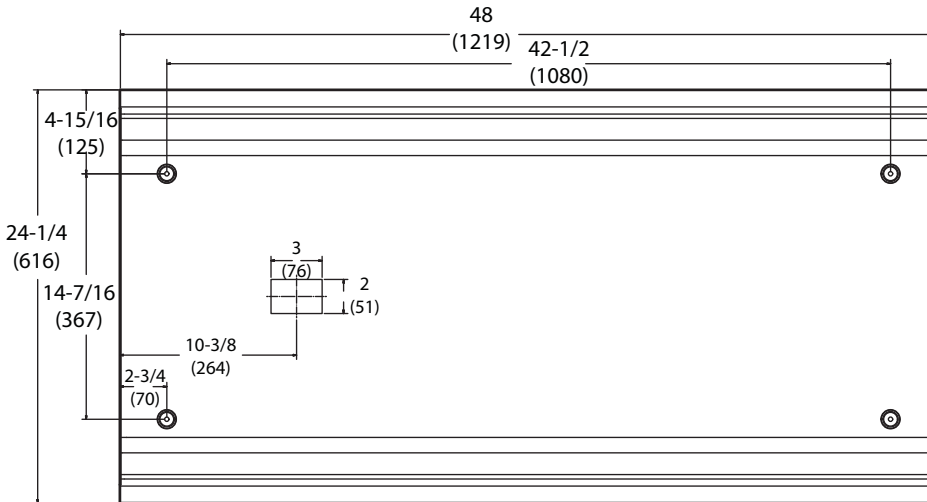
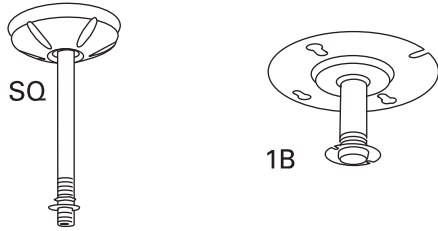
1B Ceiling spacer (1-1/2" to 2-1/2" from ceiling).

M 2x4 Modular Commercial

MOUNTING DATA

For unit or row installation. Surface or stem mounting.

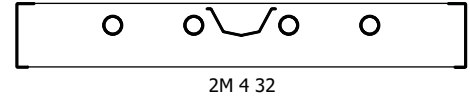
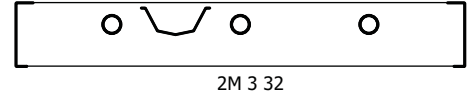
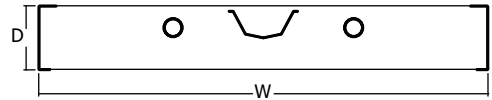
UNIT/ROW INSTALLATION — When stem-mounting, four stems are recommended per fixture.



DIMENSIONS

All dimensions are inches (millimeters). Specifications subject to change without notice.

L = 48
WIDTH = 24.25
DEPTH = 3.5



Energy (Calculated in accordance with NEMA standard LE-5)

LER.FW	ANNUAL ENERGY COST*	LAMP DESCRIPTION	LAMP LUMENS	BALLAST FACTOR	WATTS
63	\$3.81	(3) 32W T8	2850	.88	86

*Calculated in accordance with NEMA Standards LE-5.

PHOTOMETRICS

Calculated using the zonal cavity method in accordance with IESNA LM41 procedure. Floor reflectances are 20%. Lamp configurations shown are typical. All data based on 25°C. Full photometric data on these and other configurations available upon request.

TEST NO: LTL18488

LUMINAIRE CATALOG NO.: 2M 4 32 A12 MVOLT 1/4 GEB 10IS
LUMENS PER LAMP: 2800

TEST NO: LTL18601

LUMINAIRE CATALOG NO.: 2M 3 32 A12 MVOLT 1/3 GEB10IS
LUMENS PER LAMP: 2800

TEST NO: LTL18589

LUMINAIRE CATALOG NO.: 2M 2 32 A12 MVOLT GEB10IS
LUMENS PER LAMP: 2800

RCR	pf pc pw	Coefficients of Utilization								
		20%			50%			80%		
		80%	30%	10%	50%	30%	10%	50%	30%	10%
0		85	85	85	83	83	83	79	79	79
1		75	72	70	73	71	69	70	68	66
2		66	62	58	65	61	57	62	59	56
3		59	53	49	58	53	49	56	51	48
4		52	47	42	52	46	42	50	45	41
5		47	41	37	46	41	36	45	40	36
6		43	37	32	42	36	32	41	36	32
7		39	33	29	38	33	28	37	32	28
8		35	30	26	35	29	26	34	29	25
9		33	27	23	32	27	23	31	26	23
10		30	25	21	30	24	21	29	24	21

RCR	pf pc pw	Coefficients of Utilization								
		20%			50%			80%		
		80%	30%	10%	50%	30%	10%	50%	30%	10%
0		86	86	86	84	84	84	80	80	80
1		76	73	71	74	72	69	71	69	67
2		67	62	59	66	61	58	63	60	57
3		59	54	50	58	53	49	56	52	48
4		53	47	43	52	47	42	50	46	42
5		48	42	37	47	41	37	45	40	36
6		43	37	33	42	37	32	41	36	32
7		39	33	29	39	33	29	38	32	29
8		36	30	26	35	30	26	34	29	26
9		33	27	23	33	27	23	32	27	23
10		30	25	21	30	25	21	29	24	21

RCR	pf pc pw	Coefficients of Utilization								
		20%			50%			80%		
		80%	30%	10%	50%	30%	10%	50%	30%	10%
0		91	91	91	89	89	89	85	85	85
1		80	77	75	79	76	73	76	73	71
2		71	66	62	70	65	61	67	63	60
3		63	57	52	62	56	52	59	55	51
4		56	50	45	55	49	44	53	48	44
5		50	44	39	50	43	39	48	42	38
6		45	39	34	45	39	34	43	38	34
7		41	35	30	41	35	30	40	34	30
8		38	31	27	37	31	27	36	31	27
9		35	29	24	34	28	24	33	28	24
10		32	26	22	32	26	22	31	26	22

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	2500.6	22.3	31.3
0° - 40°	4091.7	36.5	51.2
0° - 60°	6800.5	60.7	85.1
0° - 90°	7990.9	71.3	100.0
90° - 180°	0.0	0.0	0.0
0° - 180°	7990.9	71.3	100.0

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1889.2	22.5	31.1
0° - 40°	3104.3	37.0	51.1
0° - 60°	5162.6	61.5	85.0
0° - 90°	6072.0	72.3	100.0
90° - 180°	0.0	0.0	0.0
0° - 180°	6072.0	72.3	100.0

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1311.6	23.4	30.6
0° - 40°	2161.7	38.6	50.4
0° - 60°	3637.0	64.9	84.8
0° - 90°	4290.8	76.6	100.0
90° - 180°	0.0	0.0	0.0
0° - 180°	4290.8	76.6	100.0



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