

Mini-Beam 2' x 4' Recessed Fluorescent **MBS2GPW254**

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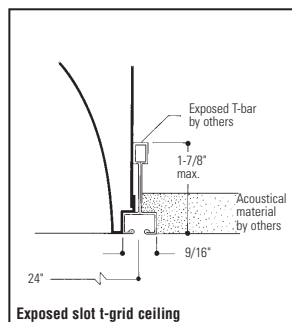
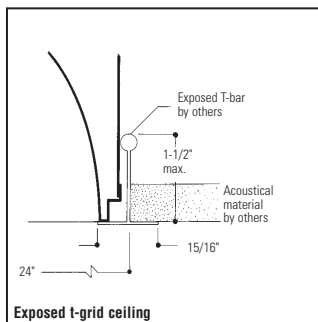
Direct/Indirect, Static, 2 Lamp, Linear T5, 54 Watt or 28 Watt

Features

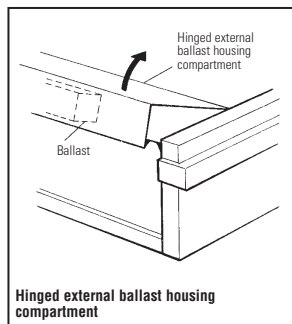
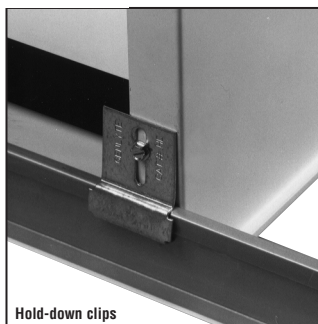
- Direct/indirect lamp shield appearance with soft contoured interior.
- Four inch wide perforated mesh lamp shield with white acrylic overlay.
- 71.3% efficient.
- Only 5-1/2" deep.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid (T) ceiling types.
- Lamp shield hinges from either side.
- Hinged external ballast housing compartment.
- Can be continuous row mounted.
- Wiring access plate standard.
- 4 hold-down clips standard.
- Housing is 20 gauge steel, meets NYC Code requirements.
- Optional DALI ballast accepts digital dimming commands from computers, scene controllers and automatic control devices.



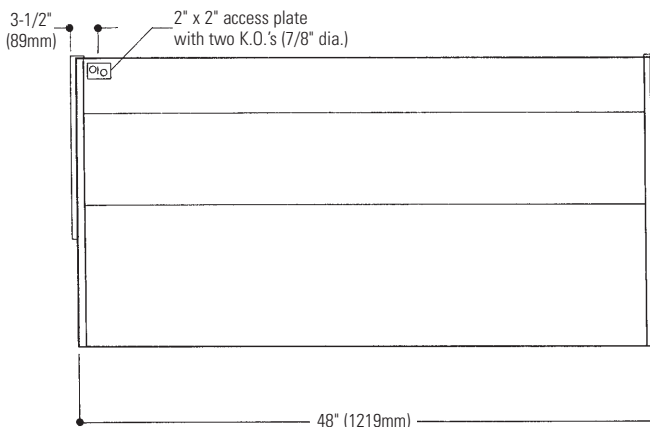
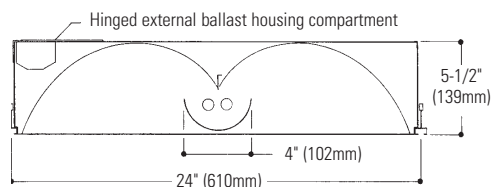
Mounting Methods



Features



Dimensions



Job Information

Type:

Job Name:

Cat. No.:

Lamp(s):

Volts/Ballast:

Lightolier a Genlyte Thomas Company www.lightolier.com
 Technical Information: (978) 657-7600 • Fax (978) 658-0595
 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
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LIGHTOLIER®



Mini-Beam 2' x 4' Recessed Fluorescent **MBS2GPW254**

Photometry

Model No. **MBS2GPW254120PG**

LER = FL - 60.5 IW - 120.2 BF - 1.00
Comparative yearly lighting energy cost per 1000 lumens = \$3.96

TESTING LABORATORY
45 Industrial Way
Wilmington, MA 01897
(978) 657-7900

REPORT NUMBER: C2004003 DATE: 01-21-2004
CATALOG NUMBER: MBS2GPW254120PG
LAMP: FP54/835/HO
LUMINAIRE: MINIBEAM 2X4 TROFFER WITH FLAT WHITE REFLECTORS AND FLAT WHITE PERFORATED BASKET WITH WHITE LENS
BALLAST: SYL QT2X54120PG
121.93 WATTS
REPORT IS BASED ON 10000 LUMENS PER LAMP.

CANDELA DISTRIBUTION

CANDELA	DISTRIBUTION	FLUX
0.0	22.5	45.0
0	45.74	45.74
5	4548	4554
15	4364	4375
25	4021	4058
30	3538	3606
45	2932	3047
55	2231	2397
65	1485	1687
75	781	967
85	162	170
90	0	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0-30	3593	18.0	25.2
0-40	5942	29.7	41.7
0-60	10804	54.0	75.8
0-90	14253	71.3	100.0
90-180	0	0.0	0.0
0-180	14253	71.3	100.0

TOTAL LUMINAIRE EFFICIENCY = 71.3 %

CIE TYPE - DIRECT
PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1, 2 1, 3
SHIELDING ANGLES : 90 90
PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 97.040 23.040

LUMINANCE DATA IN CANDELA/SQ METER
ANGLE AVERAGE AVERAGE AVERAGE
IN DEG 0-DEG 45-DEG 90-DEG
45 5928. 6621. 7093.
90 5961. 6561. 7398.
65 5023. 6827. 8112.
75 4314. 7247. 7772.
85 2657. 3463. 3773.

Checked
Approved

THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES - FIELD PERFORMANCE MAY VARY FROM LABORATORY PERFORMANCE.

coefficients of utilization — zonal cavity method (effective floor cavity reflectance 0.20)

RF	20			20			20			
RC	80			50			30			
RW	70	50	30	50	30	10	50	30	10	
room cavity ratio	1	77	74	70	69	67	64	66	64	62
	2	70	64	59	60	56	52	57	54	51
	3	63	56	49	52	47	43	50	46	43
	4	58	49	42	46	41	37	44	40	36
	5	53	44	37	41	36	32	40	35	31
	6	49	39	33	37	32	27	36	31	27
	7	45	35	29	34	28	24	33	28	24
	8	42	32	26	31	25	22	30	25	21
	9	39	30	24	28	23	19	28	23	19
	10	37	27	21	26	21	18	25	21	17

visual comfort probability

room size		ceiling height				ceiling height			
W	L	8.5	10.0	13.0	16.0	8.5	10.0	13.0	16.0
20	20	36	44	57	71	28	36	51	67
20	30	31	36	43	55	24	26	33	47
20	40	30	32	37	44	23	24	26	33
20	60	29	31	34	39	23	23	24	27
30	20	35	42	53	67	30	37	49	64
30	30	30	34	40	51	25	27	32	44
30	40	28	30	34	41	24	24	25	31
30	60	28	29	31	35	23	23	22	25
30	80	29	30	29	33	24	24	22	24
40	20	36	42	51	64	33	39	49	63
40	30	31	33	38	48	27	29	33	44
40	40	29	30	33	39	26	26	26	31
40	60	29	29	29	33	25	25	23	25
40	80	30	29	28	31	26	25	22	24
40	100	31	30	28	31	27	26	23	23
60	30	33	35	38	47	30	31	34	44
60	40	31	31	32	37	28	27	26	32
60	60	30	29	28	32	27	26	23	25
60	80	31	30	27	30	27	26	23	24
60	100	32	31	23	29	28	26	23	23
100	40	35	35	34	38	33	32	30	35
100	60	34	33	30	32	31	30	26	28
100	80	35	33	29	30	31	29	25	26
100	100	36	33	29	29	32	29	25	25

Ordering Information

Explanation of Catalog Number. Example: MBS2GPW254120PGGLR

MB Mini-Beam Direct/Indirect Recessed with Perforated Mesh Shield	S Body Style: S = Static	2 Fixture Width	G Ceiling Type: Fits both Standard Grid and Slot Grid	P Perforated Lamp Shield	W White Reflector	2 Lamp Quantity	Lamp Quantity: (By others) 54 = HO/T5 54 Watt 28 = 28 Watt T5	Voltage: 120 or 277	Ballast: PI = Linear T5 Instant Start Less than 10 THD PG = Programmed Start Less than 10 THD	Options: Add appropriate suffix to catalog no, ie: (GLR)
MN For Local 3 Manufacturing	For Local 3 Manufacturing, substitute MN for MB . Example: MNS2GPW154120PGGLR									

Options/Accessories

Fusing: Internal fast-blow fusing. Suffix: **GLR**.

Internal slow-blow fusing. Suffix: **GMF**.

Electrical/Wiring Options: Consult factory.

Specifications

Performance: In an installation of 2 lamps 54W luminaires in a room cavity of 1, with reflectance of 80% ceiling, 50% walls, 20% floor, the C.U. shall not be less than .74. To reduce glare the average brightness at 65° shall not exceed 8112 candelas per square meter. To control veiling reflections, luminaire output in the 30°-90° zone shall not be less than 74.8%.

Materials: Housing is die-formed 20 gauge steel.

Finish: Chassis exterior—baked white acrylic enamel. **Reflector**—baked flat white acrylic enamel, minimum 86% reflectance. Phosphate undercoating.

Lamp Shield—baked flat white acrylic enamel.

Electrical: Thermally protected class "P" ballast C.B.M. approved, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.

Labels: I.B.E.W./UL and ULc Listed.

Job Information Type:

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