



PB2M167EBL = (Flanged) Black/White
PB2M167EWL = (Flanged) White

PB2M167EBTL = (Trimless) Black
PB2M167EWTL = (Trimless) White

Ceiling Cutout: 11 1/16" L x 6 3/16" W

Add a "1" for 120v or "2" for 277v at the end of the catalog number for voltage

Ordering Information: MR 16 Series B

Cat. No.	Lamp	Ceiling Trim	Aperture Finish
PB2M167EBL	(2) 75W MR16*	Overlap	Black with White Flange
PB2M167EWL	(2) 75W MR16*	Overlap	White with White Flange
PB2M167EBTL	(2) 75W MR16*	Trimless	Black
PB2M167EWTL	(2) 75W MR16*	Trimless	White

Add a "1" for 120v or "2" for 277v at the end of the catalog number for voltage

*50W max. lamping when using accessories

Features

- Aperture Frame:** Provides clean support for lamp holders and overlapping flange or trimless installation. Extruded aluminum. Rigidly welded together on all corners.
- Media Cartridge:** Allows convenient loading and removal of one accessory. Easily installed and removed for lamping with a simple twisting motion. Constructed of die-formed aluminum.
- Adjustable Ring:** Allows 360° horizontal and 45° (on width) and 45° (on length) vertical adjustment.
- Tortionite Spring:** For easy installation of aperture frame.
- Housing:** Die-formed 22 ga. steel. Finish: Black
- Mounting Brackets:** Adjustable vertically from outside of housing.
- Thermal Protector:** Meets NEC, UL, and CSA requirements.
- Lampholder:** Steatite for GX/GY 5.3 Bi-Pin lamps. 250°C Teflon® leads.
- Junction Box:** 14 ga. steel, 4" x 3 1/2" x 2" box. Allows inspection from below.
- Transformer Housing:** Die-formed 18 ga. steel.
- Lamp and Accessory Support:** .032" steel, flared for easy entry of Media Cartridge.
- Lamp Guard:** Heat resistant clear glass. Lamp manufacturers' requirement

Electrical

Electronic Transformer: Individual for each lamp. Offers reliable operation and is accessible from below for servicing. 12V Secondary 75VA ea. lamps.

Dimming Controls: Use only dimmers specifically designed for use with electronic transformers. Low Voltage fixtures may produce audible sound when used with dimmers, which may be objectionable in acoustically critical areas.

UL /cUL listed for through branch circuit wiring with maximum of (8) no. 12 AWG, 90° C.

Finishes

All painted finishes are powder coated baked enamel.

Options and Accessories

Accessories: 2 1/2" dia. series, filters, lenses, screens, and louver. (1) accessory maximum, including lamp cover glass. Lamp cover glass may be replaced with solid glass accessory.

Label

UL/cUL (Suitable for Damp Location), I.B.E.W.

Teflon® is a registered trademark of E.I. DuPont.

US Patent Pending.

Job Information	Type:
Job Name:	
Cat. No.:	
Lamp(s):	
Notes:	

Lightolier a Genlyte company www.lightolier.com
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LIGHTOLIER®



Lighting Performance Data

		Narrow					
		42W MR16 VNSP (EZY)	42W MR16 NSP (EYR)	42W MR16 SP (EYS)	50W MR16 NSP (EXT)	75W MR16 NSP (EYF)	
DISTANCE 0' 1' 2' 3' 4' 5' 6'							
	FOOTCANDLES (On Beam Center At 6')	333	197	78	254	319	
BEAM SPREAD (To 50% Max. CP)		7° x 9°	11.5°	20°	11° x 13°	14° x 15°	
MAX. CANDLEPOWER (Candelas)		12,000	7,075	2,800	9,150	11,500	
RATED LIFE (Hours)		3,000	3,000	3,000	3,000	3,500	
COLOR TEMPERATURE		3,000°K	3,000°K	3,000°K	3,025°K	3,025°K	
0° AIMING ANGLE		 D FC L W D FC L W		 D FC L W D FC L W		 D FC L W D FC L W	
Illumination on Horizontal Plane		8' 188 1.0' 1.3' 7' 144 1.4' 1.4' 4' 175 1.4' 1.4' 7' 187 1.3' 1.6' 8' 180 2.0' 2.1'	12' 83 1.5' 1.9' 10' 71 2.0' 2.0' 6' 78 2.1' 2.1' 10' 92 1.9' 2.3' 12' 80 2.9' 3.2'	16' 47 2.0' 2.5' 13' 42 2.5' 2.5' 8' 44 2.8' 2.8' 13' 54 2.5' 3.0' 16' 45 3.9' 4.2'	20' 30 2.5' 3.1' 16' 38 3.2' 3.2' 10' 28 3.5' 3.5' 16' 35 3.1' 3.6' 20' 25 4.9' 5.3'		
30° AIMING ANGLE		 D FC L W D FC L W		 D FC L W D FC L W		 D FC L W D FC L W	
Illumination on Horizontal Plane		7' 159 1.1' 1.3' 6' 128 1.6' 1.4' 3' 202 1.4' 1.2' 6' 165 1.5' 1.6' 7' 152 2.3' 2.1'	10' 77 1.6' 1.8' 9' 57 2.4' 2.1' 5' 73 2.4' 2.0' 9' 73 2.3' 2.4' 10' 75 3.3' 3.0'	13' 46 2.1' 2.4' 12' 32 3.2' 2.8' 7' 37 3.3' 2.9' 12' 41 3.1' 3.2' 13' 44 4.3' 4.0'	16' 30 2.6' 2.9' 15' 20 4.0' 3.5' 9' 22 4.3' 3.7' 15' 26 3.9' 3.9' 16' 29 5.3' 4.9'		
30° AIMING ANGLE		 D FC L W D FC L W		 D FC L W D FC L W		 D FC L W D FC L W	
Illumination on Vertical Plane		3' 167 1.5' 0.9' 2' 221 1.7' 0.8' 1' 350 1.6' 0.7' 2' 286 1.6' 0.9' 3' 160 3.1' 1.6'	4' 94 2.0' 1.3' 3' 98 2.5' 1.2' 2' 88 3.1' 1.4' 3' 127 2.4' 1.4' 4' 90 4.1' 2.0'	5' 60 2.5' 1.6' 4' 55 3.3' 1.6' 3' 39 4.7' 2.1' 4' 71 3.2' 1.8' 5' 58 5.1' 2.6'	6' 41 3.0' 1.9' 5' 35 4.2' 2.0' 4' 22 6.2' 2.8' 5' 46 4.0' 2.3' 6' 40 6.2' 3.2'		
45° AIMING ANGLE		 D FC L W D FC L W		 D FC L W D FC L W		 D FC L W D FC L W	
Illumination on Vertical or (Horizontal) Plane		5' 170 1.2' 1.1' 4' 156 1.6' 1.1' 3' 110 2.2' 1.5' 4' 202 1.6' 1.3' 5' 163 2.5' 1.9'	7' 87 1.7' 1.6' 6' 69 2.4' 1.7' 4' 62 2.9' 2.0' 6' 90 3.2' 1.9' 7' 83 3.5' 2.6'	9' 52 2.2' 2.0' 8' 39 3.3' 2.3' 5' 40 3.6' 2.5' 8' 51 3.1' 2.6' 9' 50 4.5' 3.4'	11' 35 2.7' 2.4' 10' 25 4.1' 2.8' 6' 27 4.4' 3.0' 10' 32 3.9' 3.2' 11' 34 5.5' 4.1'		

		Medium		Wide			
		50W MR16 NFL (EXZ)	75W MR16 NFL (EYJ)	42W MR16 FL (EYP)	50W MR16 FL (EXN)	75W MR16 FL (EYC)	
DISTANCE 0' 1' 2' 3' 4' 5' 6'							
	FOOTCANDLES (On Beam Center At 6')	83	128	28	42	56	
BEAM SPREAD (To 50% Max. CP)		22° x 27°	25°	36°	37° x 39°	38° x 40°	
MAX. CANDLEPOWER (Candelas)		3,000	4,600	991	1,500	2,000	
RATED LIFE (Hours)		3,000	3,500	3,000	3,000	3,500	
COLOR TEMPERATURE		3,025°K	3,050°K	3,050°K	3,050°K	3,500°K	
0° AIMING ANGLE		 D FC L W D FC L W		 D FC L W D FC L W		 D FC L W D FC L W	
Illumination on Horizontal Plane		6' 83 2.3' 2.9' 6' 128 2.7' 2.7' 3' 110 1.9' 1.9' 4' 94 2.7' 2.8' 4' 125 2.8' 2.9'	8' 47 3.1' 3.8' 8' 72 3.5' 3.5' 5' 40 3.2' 3.2' 6' 42 4.0' 4.2' 6' 56 4.1' 4.4'	10' 30 3.9' 4.8' 10' 46 4.4' 4.4' 7' 20 4.5' 4.5' 8' 23 5.4' 5.7' 8' 31 5.5' 5.8'	12' 21 4.7' 5.8' 12' 32 5.3' 5.3' 9' 12 5.8' 5.8' 10' 15 6.7' 7.1' 10' 20 6.9' 7.3'		
30° AIMING ANGLE		 D FC L W D FC L W		 D FC L W D FC L W		 D FC L W D FC L W	
Illumination on Horizontal Plane		4' 122 2.1' 2.2' 5' 120 3.0' 2.6' 3' 72 2.7' 2.3' 3' 108 2.8' 2.5' 3' 144 2.9' 2.5'	6' 54 3.1' 3.3' 7' 61 4.2' 3.6' 5' 26 4.5' 3.8' 5' 39 4.6' 4.1' 5' 52 4.8' 4.2'	8' 30 4.2' 4.4' 9' 37 5.4' 4.6' 7' 13 6.3' 5.3' 7' 20 6.5' 5.7' 7' 27 6.7' 5.9'	10' 19 5.2' 5.5' 11' 25 6.6' 5.6' 9' 8 8.1' 6.8' 9' 12 8.3' 7.4' 9' 16 8.6' 7.6'		
30° AIMING ANGLE		 D FC L W D FC L W		 D FC L W D FC L W		 D FC L W D FC L W	
Illumination on Vertical Plane		2' 94 3.5' 1.9' 2' 144 4.2' 1.8' 1' 124 3.8' 1.3' 1' 188 4.0' 1.4' 1' 250 4.3' 1.5'	3' 42 5.3' 2.9' 3' 64 6.2' 2.7' 2' 31 7.6' 2.6' 2' 47 8.1' 2.8' 2' 63 8.6' 2.9'	4' 23 7.0' 3.8' 4' 36 8.3' 3.5' 3' 14 11.4' 3.9' 3' 21 12.1' 4.2' 3' 28 12.8' 4.4'	5' 15 8.8' 4.8' 5' 23 10.4' 4.4' 4' 8 15.2' 5.2' 4' 12 16.1' 5.7' 4' 16 17.1' 5.8'		
45° AIMING ANGLE		 D FC L W D FC L W		 D FC L W D FC L W		 D FC L W D FC L W	
Illumination on Vertical or (Horizontal) Plane		3' 118 2.4' 2.0' 3' 181 2.1' 1.9' 2' 88 2.9' 1.8' 2' 133 3.0' 2.0' 2' 79 4.7' 3.1'	5' 42 4.0' 3.4' 5' 65 4.7' 2.1' 3' 39 4.4' 2.8' 3' 59 4.5' 3.0' 3' 44 6.3' 4.1'	7' 22 5.7' 4.8' 7' 33 6.5' 4.4' 4' 22 5.8' 3.7' 4' 33 6.0' 4.0' 4' 28 7.8' 5.1'	9' 13 7.3' 6.1' 9' 20 8.4' 5.6' 5' 14 7.3' 4.6' 5' 21 7.5' 5.0' 5' 20 9.4' 6.2'		

		Beam Center Location									
		1	2	3	4	5	6	7	8	9	10
Distance D (ft.)		1	2	3	4	5	6	7	8	9	10
Distance C (ft.)		1.7	3.5	5.2	6.9	8.7	10.4	12.1	13.8	15.6	17.3
This chart locates the distance (C) to the center of the light beam for various distances (D) when the lamp is aimed 30° from vertical. The preferred aiming angle for lighting pictures on a wall.											

Data are based on bare lamp photometrics. Dashed lines in beam spreads indicate narrow axes of oval shaped beams.

FC is initial footcandles at center of beam. L and W are to the point that the candlepower drops 50% of maximum.

Job Information **Type:**

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