

DESCRIPTION

Specification grade 50 watt MR16 adjustable fixture rated for direct contact with insulation. Remote transformer version is rated for 71 watt MR16. Adjustment mechanism features hot aiming capability, aiming marks and toolless locking. Optics provide glare-free 50° cutoff to lamp. For use with all halogen MR16 lamp varieties. Optical element can be changed after installation to provide a variety of lamp sources and distributions. e.g. into a wall wash.

Catalog #		Type	
Project		Date	
Comments			
Prepared by			

SPECIFICATION FEATURES

Baffle

0.040 thick aluminum spun sawtooth baffle in matte black or white powdercoat finish.

Flange

Die-cast flange with either matte white or clear coat finish. Die-cast flanges are easily removed for field painting. Elements are keyed for proper insertion.

Adjustability

Removable lamp adjustment mechanism provides up to 45° tilt and 361° rotation and locks into any aiming position. Unit is relamped without unlocking adjustments. Translating centerbeam optics maximize light output.

Lens

Soft focus lens standard for smooth beam patterns. Up to two filter media can be used which are retained during relamping.

Attachment

Positive torsion springs pull flange tight to ceiling. Mechanical light trap eliminates spill light at edge of flange or reflector.

Socket

GX5.3 base for Bi-pin MR16 lamps. Back light shield keeps interior of fixture dark.

Transformer

Truvolt(TM) toroidal transformer with dual-output taps for proper 12.0V operation. Dimmer tap compensates for inherent voltage loss from dimmers, resulting in 30% more lumens than traditional laminated transformers. Toroidal design, with 90% or greater efficiency, features a rolled one-piece continuous core of M3 grade grain oriented silicon steel complete with an integral thermal to protect against overheating and ensure quiet operation. For dimming, use dimmers rated for electromagnetic transformers. Transformer is warranted for 5 years and is serviceable from below ceiling. Note: If a dimming system is operated for construction lighting in its "shunt" mode, i.e. bypassing the dimmer modules, for an extended period of time, fixtures with the dual-tap toroidal transformer should be operated on the "Switched Fixture" output until the dimmers are in use. Operating fixtures on the "Dimmed Fixture" output with a full 120v input for an extended period will overdrive the lamp and cause shortened lamp life.

Frame/Housing

Hot dipped galvanized 20 gauge steel frame with built in 1/2 inch plaster lip. Gunsights allow for consistent alignment. Aluminum .032 thick housing allows for heat dissipation and reduces weight. Matte black housing interior.

Junction Box

18 cubic inches, listed for 4#12 AWG or 6#14 AWG 90° C additional feed through conductors, has six 1/2 inch pryouts.

Bar Hangers

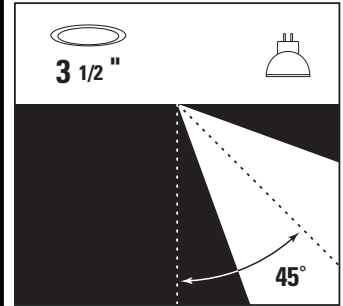
No Flex® bar hangers with positive locking, for use with wood, engineered wood and steel frame joists spaced up to 24" O.C ship with platform. For use in T-bar ceilings order accessory MBCLP. Nailless barb and locator lip provide consistent installation height.

Codes

Thermally protected, IP labeled, for use in direct contact with insulation. Meets Washington State Air tight requirements, 1995 CABO Model Energy Code.

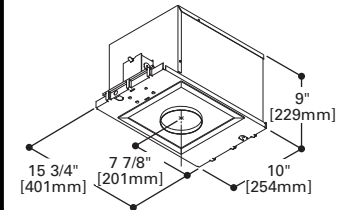
Labels

UL/cUL listed, standard damp label, IBEW union made. Not recommended for use with 50W IR type lamps.

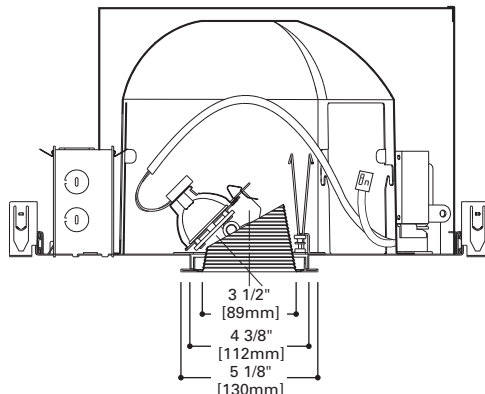


**P3MR
E3AABB**

**50W MR16
3" ADJUSTABLE
BAFFLE**



Ceiling Cutout 4 3/8" (112mm)



Energy Data

120V Input			
Lamp Watts	Input Watts	Operating Current	
20	23	.19	
35	41	.34	
37	42	.35	
42	47	.39	
50	57	.48	

Sample Number: Complete unit consists of platform, lamp module and optical element.

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Platform

P3MR =3" Airtight IC Rated Low Voltage Housing
P3MRREMOTE =3" Airtight IC rated Housing for Remote Transformer (71W max.)

Optical Element

E3AA =MR16 Adjustable Accent 0 - 45 deg Baffle

Finish

BB=Black Baffle
WB=White Baffle

Flange

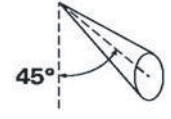
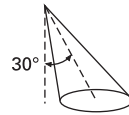
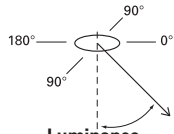
Blank =White Die-cast flange ring
RAW=Natural Die-cast

Accessories

MBCLP =40 Push On T Bar Clips (for 10 Units)	LHEX =Hex Cell Louver	LSNOOT =SNOOT
Flush Mount		
FMC3 =3" Flush Mount Collar		
L Series Filter		
LLNR =Linear Spread Lens	LSPD =Spread Lens	LUV =Ultraviolet Reduction Lens
L27K =2700 Dichroic Filter	LLPINK =Light Pink Lens	LLSTRAW =Light Straw Lens
LDAY =Daylight Lens	LPLAV =Pale Lavender Lens	LSPINK =Surprise Pink Lens
Plaster Lip		
PLE3 =Plaster Lip Extension for Max 2" Thick Ceiling		

Discontinued
25-01-2024

PHOTOMETRICS



Lamp	Luminance cd/m ² @ Maximum Tilt			0° Aiming Angle Horizontal Footcandles				30° Aiming Angle Horizontal Footcandles					30° Aiming Angle Vertical Footcandles					45° Aiming Angle Vertical Footcandles				
	Degree	@ 180°	@ 90°	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
GE Q20 MR16C/VNSP/7 Lumens: 200 Beam Spread: 7° CBCP: 7,400	85°	0	0	6'	145	0.7	0.6	6'	81	1.1	0.8	3.5	2'	174	0.8	0.5	3.5	2'	521	0.4	0.3	2
	75°	0	0	8'	81	1	0.8	8'	46	1.5	1	4.6	3'	77	1.2	0.8	5.2	3'	231	0.6	0.5	3
	65°	0	0	10'	52	1.2	1	10'	29	1.9	1.3	5.8	4'	43	1.7	1	6.9	4'	130	0.8	0.7	4
	55°	0	0	12'6"	33	1.5	1.3	12'6"	19	2.3	1.6	7.2	5'	28	2.1	1.3	8.7	5'	83	0.9	0.8	5
	45°	922	922																			
	Test # H21238			Test # H21231				Test # H21235					Test # H21235					Test # H21238				
OS Q37 MR16/IR/SP10 Lumens: 900 Beam Spread: 10° CBCP: 13,100	85°	0	0	6'	321	0.9	1.2	6'	181	1.5	1.1	3.5	2'	355	1.3	0.7	3.5	2'	986	0.6	0.5	2
	75°	0	0	8'	180	1.3	1.6	8'	102	1.9	1.5	4.6	3'	158	1.9	1	5.2	3'	438	1	0.7	3
	65°	0	0	10'	115	1.6	2	10'	65	2.4	1.9	5.8	4'	89	2.5	1.3	6.9	4'	247	1.3	1	4
	55°	284	284	12'6"	74	2	2.5	12'6"	42	3	2.3	7.2	5'	57	3.1	1.7	8.7	5'	158	1.6	1.2	5
	45°	3225	2304																			
	Test # H21250			Test # H21252				Test # H21251					Test # H21251					Test # H21250				
GE Q42MR16C/VNSP/9 Lumens: 575 Beam Spread: 9° CBCP: 12,500	85°	0	0	6'	263	0.7	1.2	6'	144	1.1	1.2	0	2'	287	1	0.7	3.5	2'	806	0.5	0.5	2
	75°	0	0	8'	148	1	1.6	8'	81	1.5	1.6	0	3'	128	1.5	1	5.2	3'	358	0.8	0.8	3
	65°	0	0	10'	95	1.2	2	10'	52	1.9	2	0	4'	72	2	1.4	6.9	4'	201	1	1.1	4
	55°	0	284	12'6"	61	1.5	2.5	12'6"	33	2.4	2.5	0	5'	46	2.4	1.7	8.7	5'	129	1.3	1.3	5
	45°	922	1382																			
	Test # H21213			Test # H21215				Test # H21214					Test # H21214					Test # H21213				
PH Q45 MRC16/IRC/SP8 Lumens: 1030 Beam Spread: 8° CBCP: 16,000	85°	0	0	6'	343	1	1.2	6'	152	1.5	1.6	3.5	2'	299	1.3	0.9	3.5	2'	859	0.7	0.6	2
	75°	0	0	8'	193	1.3	1.6	8'	86	2	2.2	4.6	3'	133	2	1.3	5.2	3'	382	1	0.9	3
	65°	0	0	10'	124	1.6	2	10'	55	2.6	2.7	5.8	4'	75	2.6	1.8	6.9	4'	215	1.3	1.2	4
	55°	1136	284	12'6"	79	2	2.5	12'6"	35	3.2	3.4	7.2	5'	48	3.3	2.2	8.7	5'	137	1.7	1.5	5
	45°	3456	2304																			
	Test # H21230			Test # H21222				Test # H21219					Test # H21219					Test # H21230				
GE Q50 MR16C/NSP15 Lumens: 750 Beam Spread: 15° CBCP: 12,500	85°	0	1869	6'	220	1.5	1.8	6'	143	1.7	1.7	3.5	2'	252	1.5	1	3.5	2'	690	0.8	0.7	2
	75°	629	629	8'	124	2	2.4	8'	80	2.2	2.3	4.6	3'	112	2.3	1.5	5.2	3'	306	1.2	1.1	3
	65°	385	385	10'	79	2.5	3	10'	51	2.8	2.9	5.8	4'	63	3	2	6.9	4'	172	1.6	1.5	4
	55°	568	284	12'6"	51	3.1	3.8	12'6"	33	3.5	3.6	7.2	5'	40	3.8	2.5	8.7	5'	110	2	1.8	5
	45°	3686	1382																			
	Test # H21246			Test # H21241				Test # H21245					Test # H21245					Test # H21246				
GE Q50 MR16C/NFL25 Lumens: 884 Beam Spread: 25° CBCP: 9,500	85°	0	1847	6'	86	2.4	3	6'	50	3	3.2	3.5	2'	115	2.2	1.7	3.5	2'	269	1.3	1.3	2
	75°	0	622	8'	48	3.1	4	8'	28	4	4.3	4.6	3'	51	3.3	2.5	5.2	3'	119	1.9	1.9	3
	65°	0	381	10'	31	3.9	5	10'	18	5	5.4	5.8	4'	29	4.5	3.4	6.9	4'	67	2.6	2.5	4
	55°	281	281	12'6"	20	4.9	6.3	12'6"	12	6.2	6.7	7.2	5'	18	5.6	4.2	8.7	5'	43	3.2	3.2	5
	45°	7059	1366																			
	Test # H21195			Test # H21182				Test # H21194					Test # H21194					Test # H21195				
GE Q50 MR16C/FL40 Lumens: 800 Beam Spread: 40° CBCP: 1,700	85°	0	1847	6'	57	2.9	4.2	6'	29	4.3	4.1	3.5	2'	102	1.8	1.7	3.5	2'	169	1.5	1.6	2
	75°	622	622	8'	32	3.9	4.9	8'	16	5.7	5.5	4.6	3'	45	2.7	2.5	5.2	3'	75	2.3	2.4	3
	65°	381	381	10'	21	4.9	7	10'	11	7.1	6.9	5.8	4'	266	3.6	3.3	6.9	4'	42	3	3.2	4
	55°	842	281	12'6"	13	6.1	8.8	12'6"	7	8.9	8.6	7.2	5'	16	4.5	4.2	8.7	5'	27	3.8	3.9	5
	45°	14345	1822																			
	Test # H21198			Test # H21249				Test # H21199					Test # H21199					Test # H21198				

Notes & Definitions:

Luminance: To convert cd/m² to footlamberts, multiply by 0.2919

• Beam spread is to 50% center beam candlepower (CBCP)

D=Distance to floor or wall.

FC=Footcandles on floor or wall at center beam aiming location.

L=Effective Visual Beam length in feet

(50% of maximum footcandle level.) W=Effective Visual Beam width in feet (50% of maximum footcandle level.) CB=Distance across or down to center beam location. IRiS believes that bare lamp data photometrics vastly overstate the performance of low voltage adjustable accent fixtures. The "real world photometrics" shown here are from off the shelf lamps in fixtures using a clear lens with a clear reflector and operated at 12.0 volts. Please see page 64 & 65 of the IRiS catalog for a further discussion and appropriate correction multipliers.

