

Specification grade 50 watt MR16 adjustable pinhole fixture rated for direct contact with insulation. Adjustment mechanism features hot aiming capability, aiming marks and tooless locking. Pinhole minimizes aperture appearance, and reflector provides 50° cutoff to lamp and lamp image. For use with all halogen MR16 lamp varieties. Optical element can be changed after installation to provide a variety of distributions e.g. into a downlight.

SPECIFICATION FEATURES

A ··· Reflector

.040 thick aluminum spun parabolic interior reflector in Black Alzak^{*} finish. Die-cast 1.25" occulus with knife edge produces dark aperture. Occulus with either flat black or white finish.

B····Flange

Self flange reflector or 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.

C ··· 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.

D····Lens

Up to two filter media can be used which are retained during relamping.

E····Attachment

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

F···Socket

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

G...Transformer

Truvolt^{*} 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

ORDERING INFORMATION

Complete unit consists of a platform and element

Platform	Optical Element	Flange	Accessories								
P3MR = 3.5" Airtight IC Rated Low Voltage Housing P3MR REMOTE = 3.5" Airtight IC Rated Housing for Remote Transformer	E3PIN = MR16 1- 1/4" 45° Adjustable Pinhole E3PINLARGE = MR16 2" 45° Adjustable Pinhole E3OVAL = Oval Pinhole E3PINRD = Radius Edges	Blank = White die-cast with Black Occulus' W = White with white occulus' POL = Polished Aluminum with Black Occulus' SAL = Satin Aluminum with Black Occulus' RAW ² = Raw Die-cast with black Occulus	MBCLP = 40 Push On T Bar Clips (for 10 Units) PLE3 = Plaster Lip Extension for Max 2" Thick Ceiling FMC3 = Flush Mount Collar LSPD = Spread Lens LLNR = Linear Spread Lens LUV = UV Reduction Lens LSNOOT = SNOOT	LLPINK = Light Pink Lens LLSTRAW = Light Straw Lens L27K = 2700K dichroic filter LDAY = Daylight Lens LSPINK = Surprise Pink Lens LPLAV = Pale Lavender Lens LHEX = Hex Cell Louver 1 Occulus on E3PIN only 2 E3PIN and E3PIN large							
Housing P3MR REMOTE = 3.5" Airtight IC Rated Housing for Remote	MR16 2" 45° Adjustable Pinhole E3OVAL = Oval Pinhole E3PINRD = Radius Edges	occulus ¹ POL = Polished Aluminum with Black Occulus ¹ SAL = Satin Aluminum with Black Occulus ¹	Extension for Max 2" Thick Ceiling FMC3 = Flush Mount Collar LSPD = Spread Lens LLNR = Linear Spread Lens LUV = UV Reduction Lens	LDAY = Daylight Lens LSPINK = Surprise Pink Le LPLAV = Pale Lavender Le LHEX = Hex Cell Louver 1 Occulus on E3PIN							

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COOPER LIGHTING

For additional options please consult factory

TYPE:

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dimming, use dimmers rated for electromagnetic

Note: If a dimming system is operated for con-

struction lighting in its "shunt" mode, i.e. bypass-

ing the dimmer modules, for an extended period of

time, fixtures with the dual-tap toroidal transformer

should be operated on the "Switched Fixture" out-

put 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

with built in 1/2 inch plaster lip. Gunsights allow

for consistent alignment. Aluminum .032 thick

housing allows for heat dissipation and reduces

18 cubic inches, listed for 4#12 AWG or 6#14

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.

Nailess barb and locator lip provide consistent

Thermally protected, IP labeled, for use in direct

UL and cUL listed, standard damp label,

contact with insulation. Meets Washington State Air

tight requirements, 1995 CABO Model Energy Code.

AWG 90° C additional feed through conductors,

Hot dipped galvanized 20 gauge steel frame

transformers. Transformer is warranted for 5 years

1 1/4" [32mm]

4 3/8" [112mm] 5 1/8" [130mm]

and is serviceable from below ceiling.

lamp and cause shortened lamp life.

weight. Matte black housing interior.

H...Frame/Housing

I...Junction Box

J...Bar Hangers

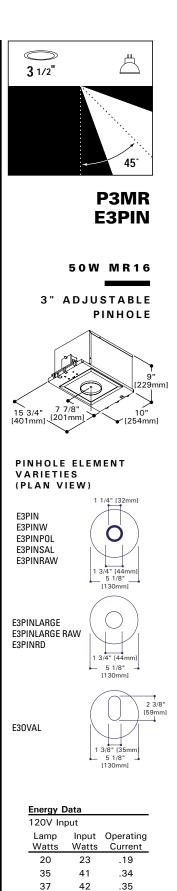
installation height.

IBEW union made.

K ··· C o d e s

L...Labels

has six 1/2 inch pryouts.



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.48

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Indiometrico																								
	180°—				30°				30°					45°										
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							
GE Q50 MR16/C/NSP15	Degree	@ 180	° @ 90°	D	FC	L	W	D	FC	L	W	СВ	D	FC	L	w	СВ	D	FC	L	W	СВ		
	85°	0	0	6'	154	1.3	1.3	6'	82	1.7	1.7	3.5	2'	171	1.4	0.9	3.5	2'	345	0.8	0.7	2		
Lumens: 750	75°	0	0	8'	87	1.8	1.8	8'	46	2.3	2.3	4.6	3'	76	2.1	1.4	5.2	3'	153	1.2	1	3		
Beam Spread: 15°	65°	0	0	10'	56	2.2	2.2	10'	30	2.8	2.8	5.8	4'	43	2.8	1.8	6.9	4'	86	1.6	1.3	4		
CBCP: 9,500	55°	0	0	12' 6	8" 36	2.8	2.8	12' 6	6" 19	3.5	3.5	7.2	5'	27	3.5	2.3	8.7	5'	55	2	1.7	5		
	45°	0	0	Test #	H21242	2		Test #	H21247	7			Test # H21247						Test # H21248					
	Test # H2	248																						
GE Q50 MR16/C/NFL25	Degree	@ 1809	° @ 90°	D	FC	L	w	D	FC	L	W	СВ	D	FC	L	w	СВ	D	FC	L	W	СВ		
	85°	0	0	6'	73	1.8	2.4	6'	38	2.6	2.3	3.5	2'	78	2.1	1.3	3.5	2'	148		1	2		
Lumens: 884	75°	0	0	8'	41	2.4	3.2	8'	22	3.4	3.1	4.6	3'	35	3.2	1.9	5.2	3'	66	1.7	1.5	3		
Beam Spread: 25°	<u>65°</u>	0	0	10'	26	3	4	10'	14	4.3	6	5.8	4'	20	4.3	2.5	6.9	- <u>4'</u> 5'	37	2.3	1.9	4		
CBCP: 3,000	<u>55°</u>	0	0	12' 6		3.8	5	12'6		5.4	4.9	7.2	5'	13	5.3	3.2	8.7	_	24	2.8	2.4	5		
	45°	0	0	Test #	H21188	1188 Test # H21197							Test # H21197						Test # H21196					
GE Q50 MR16/C/FL40	Test # H2 Degree	-	° @ 90°	D	FC	L	w	D	FC	L	w	СВ	D	FC	L	w	СВ	D	FC	L	w	СВ		
GE 200 MILLO, 0/1 240	85°	0	0	6'	38	3.2	2.5	6'	22	3.1	3	3.5	2'	75	2	1.4	3.5	2'	101	1.6	1.3	2		
Lumens: 800	75°	0	0	8'	21	4.2	3.4	8'	13	4.1	4	4.6	3'	33	3	2.1	5.2	3'	45	2.4	1.9	3		
Beam Spread: 40°	65°	0	0	10'	14	5.3	4.2	10'	8	5.2	5.1	5.8	4'	19	4.1	2.8	6.9	4'	25	3.2	2.6	4		
CBCP: 1,700	55°	0	0	12'6'	' 9	6.6	5.3	12'6	5	6.5	6.3	7.2	5'	12	5.1	3.5	8.7	5'	16	4	3.2	5		
	45°	0	1997	Test #	H21206			Test #	H21205				Test #	H21205	i			Test	# H212	04				
	Test # H2				EC		w	D	FC		w	CP	D	FC		w	СВ	D	FC	L	w	СВ		
PH45 MR16/IRC/SP8	Degree 85°	@ 180 0	° @ 90 ° 15719	 6'	FC 171	L 1	1	6'	79	L 1.5	1.5	CB 3.5	2'	159	L 1.3	0.8	3.5	2'	324		0.6	2		
Lumens: 1030	<u>85</u> 75°	0	5293	8'	96	1.4	1.4	8'	45	2.1	2	4.6	3'	70	2	1.2	5.2	3'	144		1	3		
Beam Spread: 8°	<u>75</u> 65°	0	3242	10'	62	1.7	1.7	10'	29	2.6	2.5	5.8	4'	40	2.6	1.6	6.9	4'	81	1.4	1.3	4		
CBCP: 16,000	55°	0	2389	12'6'		2.3	2.3	12'6'		3.2	3.1	7.2	5'	25	3.3	2	8.7	5'	52	1.8	1.6	5		
	45°	0	0	Test #	H21224			Test # H21225					Test # H21225						Test # H21226					
	Test # H2																							
GE Q42 MR16/C/VNSP9	Degree	@ 180°		D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	СВ	<u>D</u>	FC		W	CB		
Lumens: 575	<u>85°</u>	0	0		123	0.8	1.2	6'	64	1.3	1.3	3.5	2'	121	1.1	0.8	3.5	2'	246		0.6	2		
	75°	0	0	8'	69	1	1.6	8'	36	1.7	1.7	4.6	<u>3'</u> 4'	54	1.6	1.1	5.2	3'	109		0.9	3		
Beam Spread: 9° CBCP: 12,500	<u>65°</u> 55°	0	0	<u>10'</u> 12'6'	44	1.3	2	<u>10'</u> 12'6'	23 '15	2.1	2.1	<u>5.8</u> 7.2		30 19	2.2	1.5 1.9	6.9 8.7	- <u>4'</u> 5'	61 39	1.2 1.5	1.2	4 5		
0001.12,000	<u>45</u> °	0	0	-	20 H21207	1.0	2.5		H21208		2.7	1.2		H21208		1.5	0.7		# H212		1.5			
		-	0	1001 #				1001 #				1001 //												
OS Q37 MR16/IR/SP/10	Degree	@ 180	° @ 90°	D	FC	L	W	D	FC	L	W	СВ	D	FC	L	W	СВ	D	FC	L	W	СВ		
	85°	0	0	6'	151	1.3	1.8	6'	87	1.8	1.6	3.5	2'	147	1.6	0.9	3.5	2'	329	1	0.7	2		
Lumens: 900	75°	0	0	8'	85	1.8	2.4	8'	49	2.4	2.2	4.6	3'	65	2.4	1.3	5.2	3'	146		1	3		
Beam Spread: 10°	65°	0	0	10'	54	2.2	3	10'	31	3	2.7	5.8		37	3.1	1.8	6.9	4'	82	1.9	1.3	4		
CBCP: 13,100	<u>55°</u>	0	0	12'6'		2.8	3.8	12'6'		3.8	3.4	7.2	5'	24	3.9	2.2	8.7	5'	53	2.4	1.7	5		
	45° Test # H2	0	0	Test # H21258 Test # H21257							Test # H21257						Test # H21256							
GE Q20 MR16/VNSP7		@ 180°	° @ 90°	D	FC	L	w	D	FC	L	w	СВ	D	FC	L	w	СВ	D	FC	L	w	СВ		
	85°	0	0	6'	87	0.7	0.6	6'	38	0.8	0.9	3.5	2'	79	0.7	0.6	3.5	2'	172	0.4	0.4	2		
Lumens: 200	75°	0	0	8'	49	0.9	0.8	8'	22	1.1	1.2	4.6	3'	35	1.1	0.8	5.2	3'		0.6	0.6	3		
Beam Spread: 7°	65°	0	0	10'	31	1.1	1	10'	14	1.4	1.5	5.8	4'		1.5	1.1	6.9	4'		0.8	0.7	4		
CBCP: 7,400	55°	0	0	12'6'		1.4	1.3	12'6'		1.7	1.8	7.2	5'		1.8	1.4	8.7	5'	28	1	0.9	5		
	45°	0	0	Test #	H21233			Test #	H21236				Test #	H21236	5			Test # H21239						
	Test # H21	1239																						

Notes and Definitions:

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

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

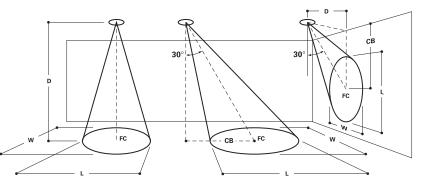
 $\mathsf{D}=\mathsf{Distance}$ to floor or wall.

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 and operated at 12.0 volts. Please see page 64 & 65 of the IRIS catalog for a further discussion and appropriate correction multipliers.



Note: Specifications and Dimensions subject to change without notice. Visit our web site at www.cooperlighting.com



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