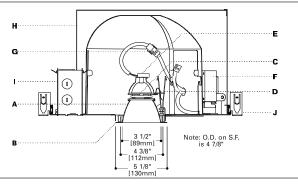
Specification grade, wet listed 50 watt MR16 lamp fixture rated for direct contact with insulation. The 60° cutoff to lamp and lamp image provides a glare free, smooth distribution of light. For use with all halogen MR16 lamps in either open or cover glass varieties. Halogen lamps provide excellent color, long life, and low radiant heat. Optical element can be changed after installation to provide a variety of distributions. e.g. into an Adjustable



SPECIFICATION FEATURES

A...Reflector

.040 thick aluminum spun parabolic reflector in Clear, Gold, Haze, Warm Haze, Black Alzak® finish, painted gloss white or matte white. Special cone colors listed below. .125 thick tempered glass protects lamp from direct spray of water and is retained during relamping.

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...Lens

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

D ··· Attachment

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

E...Socket

GX5.3 base for Bi-pin MR16 lamps. Fixed socket height ensures consistent lamp position and back light shield keeps interior of fixture dark.

F...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 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.

G...Electrical

Keyed quick connect for low voltage socket leads.

H...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.

I...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.

J...Bar Hangers

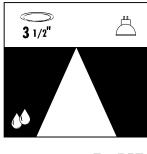
No Flex® bar hangers with positive locking, for use with wood, engineered wood and steel frame joists spaced up to 24" O.C. ship with platform. For use in T-bar ceilings order accessory MBCLP. Nailess barb and locator lip provide consistent installation height.

K···Codes

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

L...Labels

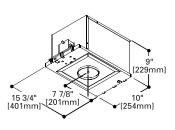
UL and cUL listed, standard wet label, IBEW union made.



P3MR E3SR

50W MR16

3" SHOWER DOWNLIGHT



Ceiling Cutout 4 3/8" [112mm]

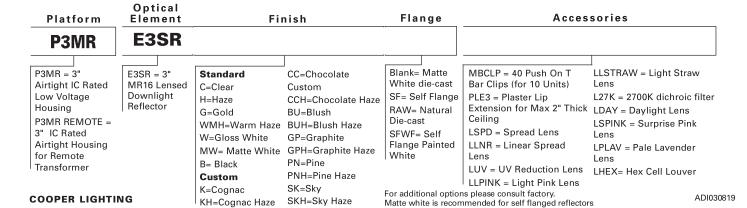
ENERGY DATA

120V Input

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

ORDERING INFORMATION

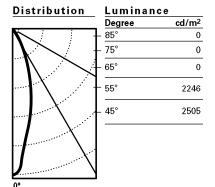
Complete unit consists of a platform and element



PHOTOMETRICS

P3MR-E3SRC Candelas H21085 CD Test No. Vertical Angle 90 Lamp: GE 50MR16/C/FL40 0 Lumens: 880 85 0 75 0 Cutoff: 60° 65 0 Spacing: 0.5 55 8 Efficiency: 65.9% 11 45 Unit LPW: 11.5 35 67 343 25 15 842 5 1469

0



Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
	$\overline{}$	
4'6"	84	2'0'
5'6"	56	2'6'
6'6"	40	3'0'
8'0"	/ 27	4'0'
10'0"	17	5'0'
12'0"	12	6'0'

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire		
0-30	517	58.7	89.1		
0-40	562	63.9	96.9		
0-60	580	65.9	100.0		
0-90	580	65.9	100.0		
90-180	0	0.0	0.0		
0-180	580	65.9	100.0		

Coefficient of Utilization

1715

Ceiling Reflectance	80%			70	70%		50%		30%		
Wall Reflectance	70	50	30	10	50	10	50	10	50	10	0
Room Cavity Ratio											
0	78	78	78	78	77	77	73	73	70	70	66
1	76	75	73	72	73	71	71	69	68	67	64
2	74	71	70	68	70	67	68	66	66	64	62
3	72	69	67	65	68	64	66	63	65	62	61
4	70	66	64	62	66	62	64	61	63	60	59
5	67	64	61	59	63	59	62	59	61	58	57
6	66	62	59	57	61	57	61	57	60	57	56
7	64	60	57	55	59	55	59	55	58	55	54
8	62	58	55	53	57	53	57	53	56	53	52
9	60	56	53	52	56	52	55	51	55	51	50
10	59	54	52	50	54	50	54	50	53	50	49

Notes and Formulas

 $\textbf{Luminance} \hbox{: To convert cd/m^2 to footlamberts, multiply by 0.2919}$

Cone of Light

- Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.
- Footcandle values are initial. Apply appropriate light loss factors where necessary.

See pages 64-65 of Iris catalog

CU Notes/Formulas:

- maintained illuminance=lamp lumens x CU x light loss factors room area
- total number of luminaires=total room area x maintained illuminance lamp lumens x CU x light loss factors
- CU data based on 20% effective floor cavity reflectance.

Note: Specifications and Dimensions subject to change without notice.

