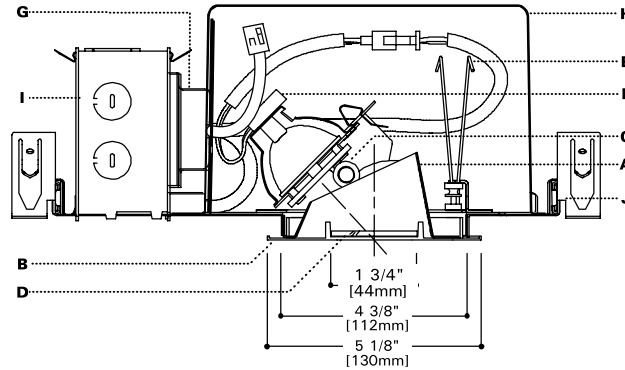


DESCRIPTION

Specification grade 71 watt MR16 adjustable wet location pinhole fixture. Adjustment mechanism features hot aiming capabilities, aiming marks and toolless locking. Pinhole minimizes aperture appearance, and reflector provides 50° cutoff to lamp and lamp image. For use with all halogen MR16 lamp varieties. Units small size is ideal for tight construction areas. Insulation must be kept 3" away from sides and top of fixture. **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.

B...Flange

Die-cast flange with matte white 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

Clear tempered glass lens seals for wet location. Soft focus lens standard in platform for smooth beam patterns. 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 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 override the lamp and cause shortened lamp life.

H...Frame/Housing

Hot dipped galvanized 20 gauge steel frame with built in 1/2 inch plaster lip. Gunsights allow for consistent alignment. 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 three 1/2" pryouts.

J...Bar Hangers

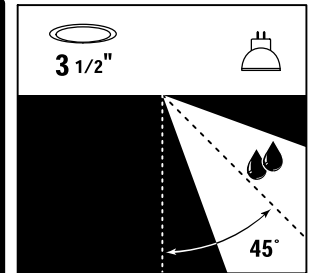
No Flex® bar hangers with positive locking, for use with wood, engineered wood and steel frame joists spaced up to 24" O.C. ship with platform. For use in T-bar ceilings order accessory MBCLP. Nailless barb and locator lip provide consistent installation height.

K...Codes

Thermally protected, IP labeled. Unit is airtight and exchanges less than 2.0 CFM with the plenum at a pressure of 75 pascals. Insulation must be kept three inches away from fixture sides and none on top as to entrap heat.

L...Labels

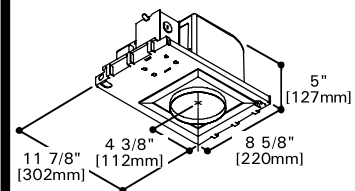
UL and cUL listed, standard wet label, IBEW union made



PN3MR E3AASRPIN

71 W MR 16

3" ADJUSTABLE
SHOWER PINHOLE



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
65	70	.58
71	77	.64
75	81	.68

ORDERING INFORMATION

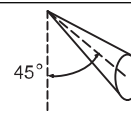
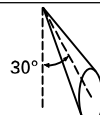
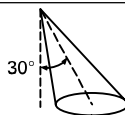
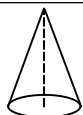
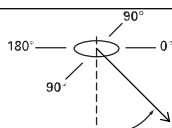
Complete unit consists of a platform and element

Platform	Optical Element	Flange	Accessories
PN3MR	E3AASRPIN		
PN3MR = 3" Non-IC Low Voltage Housing PN3MR REMOTE = 3" Non-IC Housing for Remote Transformer	E3AASRPIN = MR16 1-3/4" O-45° Adjustable Shower Pinhole	Blank = White Die Cast POL = Polished Aluminum SAL = Satin Aluminum	MBCLP = 40 Push On T Bar Clips (for 10 Units) PLE3 = Plaster Lip Extension for Max 2" Thick Ceiling LSPD = Spread Lens LLNR = Linear Spread Lens LUV = UV Reduction Lens 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 LSNOOT = SNOOT

COOPER LIGHTING

For additional options please consult factory.

ADI042548



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 MR16/C/VNSP7	85° 0 0	6' 87 0.7 0.7	6' 38 0.8 0.8 2.3	2' 79 0.7 0.6 3.5	2' 172 0.4 0.4 2
Beam Spread: 7° CBCP: 7,400	75° 0 0	8' 49 0.9 0.9	8' 22 1 1 4.0	3' 35 1.1 0.8 5.2	3' 76 0.6 0.6 3
	65° 0 0	10' 31 1.1 1.1	10' 14 1.4 1.5 5.8	4' 20 1.5 1.1 6.9	4' 43 0.8 0.7 4
	55° 0 0	12'6" 20 1.4 1.4	12'6" 9 1.7 1.8 7.2	5' 13 1.8 1.4 8.7	5' 28 1 0.9 5
Test # H21237	45° 1152 1382	Test # H21233	Test # H21236	Test # H21236	Test # H21239
	Degree@ 180°@ 90°	D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
OS Q37 MR16/IR/SP10	85° 0 0	6' 151 1.3 1.3	6' 87 1.8 1.6 3.5	2' 147 1.6 0.9 3.5	2' 329 1 0.7 2
Beam Spread: 10° CBCP: 13,100	75° 0 0	8' 85 1.8 1.8	8' 49 2.4 2.2 4.6	3' 65 2.4 1.3 5.2	3' 146 1.4 1 3
	65° 0 0	10' 54 2.2 2.2	10' 31 3 2.7 5.8	4' 37 3.1 1.8 6.9	4' 82 1.9 1.3 4
	55° 284 284	12'6" 35 2.8 2.8	12'6" 20 3.8 3.4 7.2	5' 24 3.9 2.2 8.7	5' 53 2.4 1.7 5
Test # H21250	45° 3225 2304	Test # H21258	Test # H21257	Test # H21257	Test # H21256
	Degree@ 180°@ 90°	D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
GE Q42 MR16/C/VNSP	85° 0 0	6' 123 0.8 1.8	6' 64 1.3 1.3 3.5	2' 121 1.1 0.8 3.5	2' 246 0.6 0.6 2
Beam Spread: 9° CBCP: 12,500	75° 0 0	8' 69 1 2.4	8' 36 1.7 1.7 4.6	3' 54 1.6 1.1 5.2	3' 109 0.9 0.9 3
	65° 0 0	10' 44 1.3 3	10' 23 2.1 2.1 5.8	4' 30 2.2 1.5 6.9	4' 61 1.2 1.2 4
	55° 0 0	12'6" 28 1.6 3.8	12'6" 15 2.6 2.7 7.2	5' 19 2.7 1.9 8.7	5' 39 1.5 1.5 5
Test # H21209	45° 0 0	Test # H21207	Test # H21208	Test # H21208	Test # H21209
	Degree@ 180°@ 90°	D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
PH Q45 MRC16/IRC/SP8	85° 0 15719	6' 171 1 1	6' 79 1.5 1.5 3.5	2' 159 1.3 0.8 3.5	2' 324 0.7 0.6 2
Beam Spread: 8° CBCP: 16,000	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 1.1 1 3
	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
	55° 0 2389	12'6" 39 2.2 2.2	12'6" 18 3.2 3.1 7.2	5' 25 3.3 2 8.7	5' 52 1.8 1.6 5
Test # H21226	45° 0 0	Test # H21224	Test # H21225	Test # H21225	Test # H21226
	Degree@ 180°@ 90°	D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
GE Q50 MR16/C/NSP15	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
Beam Spread: 15° CBCP: 9,500	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
	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
	55° 0 0	12'6" 36 2.8 2.8	12'6" 19 3.5 3.5 7.2	5' 27 3.5 2.3 8.7	5' 55 2 1.7 5
Test # H212398	45° 0 0	Test # H21242	Test # H21247	Test # H21247	Test # H21248
	Degree@ 180°@ 90°	D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
GE Q50 MR16/CN/FL25	85° 0 1847	6' 73 1.8 1.8	6' 38 2.6 2.3 3.5	2' 78 2.1 1.3 3.5	2' 148 1.1 1 2
Beam Spread: 25° CBCP: 3,000	75° 622 622	8' 41 2.4 2.4	8' 22 3.4 3.1 4.6	3' 35 3.2 1.9 5.2	3' 66 1.7 1.5 3
	65° 381 381	10' 26 3 3	10' 14 4.3 3.9 5.8	4' 20 4.3 2.5 6.9	4' 37 2.3 1.9 4
	55° 561 561	12'6" 17 3.8 3.8	12'6" 9 5.4 4.9 7.2	5' 13 5.3 3.2 8.7	5' 24 2.8 2.4 5
Test # H21185	45° 1366 1366	Test # H21188	Test # H21197	Test # H21197	Test # H21196
	Degree@ 180°@ 90°	D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
GE Q50 MR16/C/FL40	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
Beam Spread: 40° CBCP: 1,700	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
	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
	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
Test # H22402	45° 0 0	Test # H21206	Test # H21205	Test # H21205	Test # H21204
OS Q65 MR16/Q/NSP/10		D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
Beam Spread: 10° CBCP: 12,500		6' 89 1.4 1.4	6' 51 1.6 1.7 3.5	2' 99 1.3 0.8 3.5	2' 209 0.6 0.7 2
		8' 50 1.9 1.9	8' 28 2.1 2.3 4.6	3' 44 1.9 1.3 5.2	3' 93 1 1 3
		10' 32 2.4 2.4	10' 18 2.6 2.9 5.8	4' 25 2.5 1.7 6.9	4' 52 1.3 1.3 4
		12'6" 20 3 3	12'6" 12 3.3 3.6 7.2	5' 16 3.2 2.1 8.7	5' 33 1.6 1.7 5
		Test # H21270	Test # H21275	Test # H21275	Test # H21276
Q65 MR16/Q/FL40		D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
Beam Spread: 40° CBCP: 2,100		6' 51 2.4 2.4	6' 31 3.1 3 3.5	2' 65 2.1 1.5 3.5	2' 128 1.3 1.2 2
		8' 29 3.2 3.2	8' 18 4.2 4 4.6	3' 29 3.1 2.3 5.2	3' 57 2 1.8 3
		10' 18 4 4	10' 11 5.2 5 5.8	4' 16 4.1 3.1 6.9	4' 32 2.7 2.4 4
		12'6" 12 5 5	12'6" 7 6.5 6.2 7.2	5' 10 5.2 3.8 8.7	5' 21 3.3 3 5
		Test # H21262	Test # H21266	Test # H21266	Test # H21267

Notes and Definitions:

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

• Data is based upon bare lamps photometrics. Photometrics shown were tested with the E3PIN.

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

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.

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.

Specifications and Dimensions subject to change without notice.

