

DESCRIPTION

Specification grade 71 watt MR16 adjustable fixture. Adjustment mechanism features hot aiming capability, aiming marks and tooless locking. Optics provide glare-free 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

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Project	
Comments	Date
Prepared by	
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SPECIFICATION FEATURES

Reflector

Slot cut cone minimizes view to interior. 0.040 thick aluminum spun parabolic interior reflector in Clear, Gold, Haze, Warm Haze, Black Alzak® finish, painted gloss white or matte white. Other options available upon request. E3AA20 recommended for ceilings over 7/8" thick.

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.

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 in platform 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" 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. 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 three 1/2 inch pryouts.

Bar Hangers

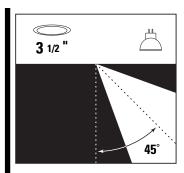
No Flex® bar hangers with positive locking, for use with wood, engineered wood and steel frame joists spaced up to 24" O.C. ship with platform. For use in T-bar ceilings order accessory MBCLP clips. Nailess barb and locator lip provide consistent installation height.

Codes

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

Labels

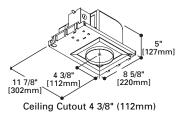
UL/cUL listed, standard damp label, IBEW union made.



PN3MR E3AA E3AA20 E3SLOT

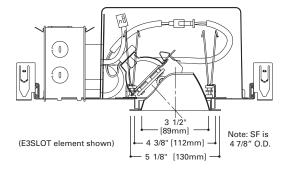
71W MR16

3" ADJUSTABLE ACCENT



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									

E3AA E3AA20 E3SLOT



Platform Optical Element Finish Flange Accessories MBCLP=40 Push On T Bar Clip (for 10 Units) PN3MR=3" Non-IC Low Voltage **E3AA**=MR16 0 - 45 deg B=Black Blank=White Die-cast LHEX=Hex Cell Louver Adjustable Accent flange ring Housing c=Clear LSNOOT=Lamp Snoot for MR16 Lamp PN3MRREMOTE=3" Non-IC Housing E3AA20=MR16 0 - 20 SF=Self Flange cc=Chocolate for Remote Transformer deg Adjustable Accent SFWF=Self Flanged, Painted White Flush Mount FMC3= 3" Flush Mount Collar CCH=Chocolate Haze G= Gold E3SLOT: MR16 0 - 45 RAW: Raw Die-cast L Series Filter deg Adjustable Accent Slot Cut Reflector GP: Graphite LLNR: Linear Spread Lens LSPD: Spread Lens GPH= Graphite Haze LUV: Ultraviolet Reduction Lens **H**= Haze Tinting Colors Matte white is recommended for self flanged reflectors. Notes: * K= Cognac LLPINK: Light Pink Tint L27K= 2700 Dichroic Filter KH: Cognac Haze LLSTRAW: Light Straw Tint LDAY: Daylight Tint MW= Matte White LSPINK: Surprise Pink Tint LPLAV= Pale Lavender Tint W= Gloss White Plaster Lip WMH= Warm Haze PLE3= Plaster Lip Extension for Max 2" Thick Ceiling

	180° 0° 0°							30"						300						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 Q20 MR16C/VNSP/7	_	@ 180°	@ 90°	D	FC	L	w	D	FC	L	w	СВ	D	FC	L	w	СВ	D	FC	L	W	СВ			
Lumens: 200	85° 75°	0	0	<u>6'</u>	145	0.7	0.6	<u>6'</u> 8'	81	1.1	0.8	3.5 4.6	2' 3'	174 77	0.8	0.5	3.5	3'		0.4	0.3	3			
Beam Spread: 7°	65°	0	0	10'	81 52	1.2	1	10'	46 29	1.5 1.9	1.3	5.8	4'	43	1.2	0.8	5.2 6.9	4'		0.8	0.5	4			
CBCP: 7,400	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'		0.9	8.0	5			
	45° Test # H212	922	922	Test # H	21231			Test # I	121235				Test #	H21235				Test #	# H21238						
OS Q37 MR16/IR/SP10	Degree	@ 180°	@ 90°	D	FC	L	W	D	FC	L	W	СВ	D	FC	L	W	СВ	D	FC	L	W	СВ			
Lumens: 900	85° 75°	0	0	<u>8'</u>	321 180	0.9	1.2	<u>6'</u>	181 102	1.5	1.1	3.5 4.6	2'	355 158	1.3	0.7	3.5 5.2	3'	986 438	0.6 1	0.5	3			
Beam Spread: 10°	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'		1.3	1	4			
CBCP: 13,100	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'		1.6	1.2	5			
	45° Test # H212	3225	2304	Test # H	21252			Test # I	121251				Test # H21251						Test # H21250						
GE Q42MR16C/VNSP/9	Degree	@ 180°	@ 90°	D	FC	L	W	D	FC	L	W	СВ	D	FC	L	W	СВ	D	FC	L	W	СВ			
Lumens: 575	85°	0	0	8'	263 148	0.7	1.2	<u>6'</u> 8'	144 81	1.1	1.2	0	<u>2'</u> 3'	287 128	1.5	0.7	3.5 5.2	3'		0.5 0.8	0.5	3			
Beam Spread: 9°	75° 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			
CBCP: 12,500	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'		1.3	1.3	5			
	45° Test # H212	922	1382	Test # H	21215			Test # I	121214				Test #	H21214				Test #	# H21213						
PH Q45 MRC16/IRC/SP8	Degree	@ 180°	@ 90°	D	FC	L	W	D	FC	L	W	СВ	D	FC	L	W	СВ	D	FC	L	W	СВ			
Lumens: 1030	85° 75°	0	0	<u>8'</u>	343 193	1.3	1.2	<u>6'</u>	152 86	1.5 2	1.6 2.2	3.5 4.6	2'	299 133	1.3	0.9 1.3	3.5 5.2	3'	859 382	0.7 1	0.6	3			
Beam Spread: 8°	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'		1.3	1.2	4			
CBCP: 16,000	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'		1.7	1.5	5			
	45° Test # H212	3456	2304	Test # H	21222			Test # I	121129				Test #	H21129				Test #	# H21230						
GE Q50 MR16C/NSP15	Degree	@ 180°	@ 90°	D	FC	L	W	D	FC	L	W	СВ	D	FC	L	W	СВ	D	FC	L	W	СВ			
Lumens: 750	85° 75°	0 629	1869 629	<u>8'</u>	220 124	1.5	2.4	<u>6'</u>	143 80	2.2	2.3	3.5 4.6	<u>2'</u>	252 112	1.5 2.3	1.5	3.5 5.2	3'		0.8 1.2	0.7 1.1	3			
Beam Spread: 15° CBCP: 12,500	65°	385	385	10'	79	2.5	3	10'	51	2.8	2.9	5.8	4'	63	3	2	6.9	4'		1.6	1.5	4			
CDCI : 12,500	55°	568	284	12'6" Test # H	51	3.1	3.8	12'6"	33	3.5	3.6	7.2	5'	40 H21245	3.8	2.5	8.7	5'	110	2	1.8	5			
	45° Test # H212	3686	1382	iesi# n	12 124 1			Test # H21245						MZ 1245	Test # H21246										
GE Q50 MR16C/VNFL25		@ 180°	@ 90°	D	FC	L	W	D 6'	FC 50	L 3	W	CB		FC 115	L	W	СВ	D	FC	L	W	СВ			
Lumens: 884	85° 75°	0	1847 622	8'	86 48	3.1	3 4	8'	28	4	3.2 4.3	3.5 4.6	3'	51	3.3	2.5	3.5 5.2	3'		1.3 1.9	1.3	3			
Beam Spread: 25° CBCP: 9,500	65°	0	381	10'	31	3.9	5	10'	18	5	5.4	5.8	4'	29	4.5	3.4	6.9	4'		2.6	2.5	4			
CBCF. 9,500	55° 45°	281	281	12'6" Test # H	20	4.9	6.3	12'6" Test # F	12	6.2	6.7	7.2	5'	18 H21194	5.6	4.2	8.7	5'		3.2	3.2	5			
	45 Test # H211		1366	iest # ii	12 1 102												Test # H21195								
GE Q50 MR16/C/FL40	Degree 85°	@ 180° 0	@ 90° 1847	D	FC 57	L 2.9	W 4.2	D	FC 29	L 4.3	W 4.1	CB 3.5		FC 102	L 1.8	W	CB 3.5	D 2'	FC 169	L 1.5	W	CB 2			
Lumens: 800	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'		2.3	2.4	3			
Beam Spread: 40° CBCP: 1,700	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			
0.001 : 1,700	55° 45°	842 14345	281 1822	12'6" Test # H	13	6.1	8.8	12'6" Test # I	7	8.9	8.6	7.2	5' Test #	16 H21199	4.5	4.2	8.7	5'	27 # H21198	3.8	3.9	5			
	Test # H211	98																							
OS Q65 MR16Q/10/NSP/B	Degree 85°	@ 180° 0	<u>@ 90°</u> 0	<u>D</u>	FC 320	<u>L</u> 1	1.2	<u>D</u>	FC 122	1.4	W 1.6	CB 3.5		FC 236	1.2	W 0.9	CB 3.5	<u>D</u>	FC 770	L 0.6	W 0.5	2 2			
Lumens: 1100 Beam Spread: 10°	75°	0	0	8'	180	1.3	1.6	8'	68	1.9	2.2	4.6	3'	105	1.9	1.3	5.2	3'		0.9	0.7	3			
CBCP: 14,000	65°	0	385	10'	115	1.6	2	10'	44	2.4	2.7	5.8	4'	59	2.5	1.8	6.9	4'		1.2	0.9	4			
	55° 45°	568 8524	568 3686	12'6" Test # H	74	2	2.5	12'6" Test # I		2.9	3.4	7.2	5' Test #	38 H21271	3.1	2.2	8.7	5' Test #	123 # H21272	1.5	1.2	5			
	Test # H212	72																							
OS Q65 MR16Q/40/FL	Degree 85°	@ 180° 0	<u>@ 90°</u> 1869	<u>D</u>	FC 66	3.3	W 4.8	<u>D</u>	FC 40	4.2	W 3.9	CB 3.5		FC 110	2.1	W 1.9	CB 3.5	<u>D</u>	FC 207	L 1.5	W	2 2			
Lumens: 1100	75°	629	629	8'	37	4.4	6.4	8'	23	5.7	5.3	4.6	3'	49	3.2	2.9	5.2	3'		2.3	2.5	3			
Beam Spread: 40° CBCP: 2,100	65°	385	385	10'	24	5.4	8	10'	15	7.1	6.6	5.8	4'	27	4.3	3.8	6.9	4'		3.1	3.3	4			
,·- -	55° 45°	852 10376	<u>568</u> 2765	12'6" Test # H	15 21259	6.8	10	12'6" Test # I	9	8.8	8.2	7.2	5' Test #	18 H21160	5.3	4.8	8.7	5' Test #	33 # H21261	3.8	4.1	5			
	Test # H212																								

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

