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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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



Ceiling Cutout 4 3/8" (112mm)

Energy	Data	
120V In	put	
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	E3AA2	0 E3SLOT
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	180° د م	90°	0° — 0° e	0° Aiming Angle				30° Aiming Angle					30° Aiming Angle					45° Aiming Angle						
Lamp	cd/m ²	@ Maxim	um Tilt	Horizontal Footcandles				Horizontal Footcandles						Vertical Footcandles						Vertical Footcandles				
GE Q20 MR16C/VNSP/7	Degree	@ 180°	@ 90°	D	FC	L	W	D	FC	L	W	СВ	D	FC	L	W	СВ	D	FC	L	W	СВ		
Lumens: 200	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		
Beam Spread: 7°	<u>/5</u> 65°	0	0	8.	81	10	0.8	8.	46	1.5	1	4.6	3.	//	1.2	0.8	5.2	3	231	0.6	0.5	3		
CBCP: 7,400	00 55°	0	0	12'6"	32	1.2	12	12'6"	10	1.9	1.3	5.8	-4	28	2.1	12	0.9	4	93	0.8	0.7	<u>4</u> 5		
	45°	922	922	Test # H	121231	1.5	1.5	Test # H	121235	2.5	1.0	/.2	Test # H	20	2.1	1.5	0.7	Test #	# H2123	3	0.0			
	Test # H212	238																		-				
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		0	0		321	0.9	1.2	6'	181	1.5	1.1	3.5		355	1.3	0.7	3.5	2'	986	0.6	0.5	2		
Beam Spread: 10°	/5 [°]	0	0	<u>8'</u>	180	1.3	1.6	8.	102	1.9	1.5	4.6	3.	158	1.9	1	5.2	3	438	12	0.7	3		
CBCP: 13,100	<u>55°</u>	28/	284	12'6"	7/	1.0	2 5	12'6"	12	2.4	2.3	5.0 7.2	- 4	09 57	2.5	1.3	0.9 8.7	- <u>4</u> 5'	158	1.5	12	5		
	45°	3225	2304	Test # H	121252	2	2.5	Test # H	121251	5	2.5	/.2	Test # H	121251	0.1	1.7	0.7	Test #	# H2125)	1.2			
	Test # H21250																							
GE Q42MR16C/VNSP/9	Degree	@ 180°	@ 90°	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	СВ	D	FC	L	W	CB		
Lumens: 575	85°	0	0		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		
Beam Spread: 9°		0	0		148	1 2	1.6	<u>8'</u>	81	1.5	1.6	0	3.	128	1.5	1	5.2	3	358	0.8	0.8	3		
CBCP: 12,500	65°	0	201	12'6"	61	1.2	25	12'6"	33	2.4	25	0		46	2 2 4	1.4	8.7	-4	129	13	1.1			
	 	922	1382	Test # H	121215	1.0	2.0	Test # H	121214	2.7	2.0		Test # H	121214	2.7		0.7	Test #	# H2121	3	1.0			
	Test # H212	13																						
PH Q45 MRC16/IRC/SP8	Degree	@ 180°	<u>@ 90°</u>		FC			D	FC	L	W	CB		FC	L	W	CB	D	FC	L	W	CB		
Lumens: 1030	85° 75°	0	0	<u> </u>	343	12	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		
Beam Spread: 8°	 	0	0	10'	193	1.3	2	10'	55	2	2.2	4.0 5.8		75	2	1.3	5.Z 6.9	3	215	13	1.2			
CBCP: 16,000	 55°	1136	284	12'6"	79	2	2.5	12'6"	35	3.2	3.4	7.2		48	3.3	2.2	8.7	5'	137	1.7	1.5	5		
	45°	3456	2304	Test # H	121222	-		Test # H	121129	0.2	0		Test # H	121129	0.0		017	Test #	# H2123)				
	Test # H212	30																						
GE Q50 MR16C/NSP15	Degree	@ 180°	<u>@ 90°</u>		FC	L	<u>W</u>	<u>D</u>	FC	L	W	CB		FC			CB	<u>D</u>	FC	L	<u>w</u>	CB		
Lumens: 750	85	620	1869	0	124	1.5	1.8	0	143	1./	1./	3.5	2'	252	1.5	15	5.5	2	306	1.2	0.7	2		
Beam Spread: 15°	 	385	385	10'	79	25	3	10'	51	2.2	2.3	5.8		63	3	2	6.9	4'	172	1.6	1.5	4		
CBCP: 12,500	55°	568	284	12'6"	51	3.1	3.8	12'6"	33	3.5	3.6	7.2		40	3.8	2.5	8.7	5'	110	2	1.8	5		
	45°	3686	1382	Test # H	21241	-		Test # H	121245				Test # H	121245		-	-	Test #	# H2124	6	-			
	Test # H21246																							
GE Q50 MR16C/VNFL25	Degree	@ 180°	@ 90°		FC	L 24			FC 50	2 2	<u>w</u>	2 E	<u>D</u>	115	L 2.2	1 7	2 E	2'	260	L 12	1.2	<u>CB</u>		
Lumens: 884	 	0	622		48	3.1	4	8'	28	4	4.3	4.6		51	3.3	2.5	5.2	-2'	119	1.9	1.9	3		
Beam Spread: 25°		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		
CBCP: 9,500	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°	7056	1366	Test # H	121182			Test # H	121194				Test # H	121194				Test #	# H2119	5				
	Test # H211	95	@ 00 °		EC		W/		EC		W/	CP		EC		\M/	CP		FC		w	CB		
GE USU WIK16/G/FL40	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		
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'	75	2.3	2.4	3		
Beam Spread: 40°	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		
CBCP: 1,/00	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 # H	21249			Test # H	121199				Test # H	121199				Test #	# H2119	3				
OS Q65 MR16Q/10/NSP/B	Test # H211	98 @ 180°	@ 90°	D	FC	L	w	D	FC	L	w	СВ	D	FC	L	w	СВ	D	FC	L	w	СВ		
Lumens: 1100	85°	0	0	6'	320	1	1.2	6'	122	1.4	1.6	3.5	2'	236	1.2	0.9	3.5	2'	770	0.6	0.5	2		
Ream 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'	342	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'	193	1.2	0.9	4		
	55°	568	568	12'6"	74	2	2.5	12'6"	28	2.9	3.4	7.2	5'	38	3.1	2.2	8.7	5'	123	1.5	1.2	5		
	45° 8524 3686 Test # H21268 Test # H21271								Test # H	121271				Test # H21272										
OS Q65 MR160/40/FI	Degree	@ 180°	@ 90°	D	FC	L	w	D	FC	L	w	СВ	D	FC	L	w	СВ	D	FC	L	w	СВ		
Lumene: 1100	85°	0	1869	6'	66	3.3	4.8	6'	40	4.2	3.9	3.5	2'	110	2.1	1.9	3.5	2'	207	1.5	1.7	2		
Ream Spread: 40°	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'	92	2.3	2.5	3		
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'	52	3.1	3.3	4		
	55°	852 10376	2765	12'6"	15	6.8	10	12'6"	9	8.8	8.2	/.2	5'	18	5.3	4.8	8.7	5'	33	3.8	4.1	5		
	40 Test # H212	103/0	2/00	iest # H	12 1259			iest # H	121260				iest # F	121160				lest ‡	FH2126	I				

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.



Specifications and Dimensions subject to change without notice. IRiS • Customer First Center • 1121 Highway 74 South • Peachtree City, GA 30269 • TEL 770.486.4800 • FAX 770.486.4801