

Specification grade, wet listed 71 watt MR16 lamp 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**

SPECIFICATION FEATURES

A ··· Reflector

.040 thick aluminum spun parabolic interior reflector in Clear, Gold, Haze, Warm Haze, Black Alzak[®] finish painted gloss white or matte white. Special cone colors listed below.

B····Glass

.125 thick tempered clear glass protects lamp from direct spray of water and is retained during relamping.

C ··· 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.

D ··· 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.

E····Lens

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

F…Attachment

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

G ···· Socket

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

H....Transformer

Truvolt^{*} toroidal transformer with dual-output taps for proper 12.0V operation and quiet operation when dimmed. 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

1 12" 1 1 12"

M3 grade grain oriented silicon steel complete with an integral thermal to protect against overheating. 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.

I…Frame/Housing

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

J...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.

K...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 push on clips. Nailess barb and locator lip provide consistent installation height.

L···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.

M····Labels

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

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	E3AASR
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t-	71W MR16
	3" ADJUSTABLE
	SHOWER
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es	No FI
	5"
	[127mm]
	4 3/8" 8 5/8"
	4 3/8" 8 5/8" 11 7/8" [112mm] [302mm]
	Ceiling Cutout: 4 3/8" [112mm]
	4 3/8" [112mm]

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ENERGY DATA

120V Inp	ut	
Lamp Watts	Input Watts	Operating Current
20	23	.19
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

SAMPLE NUMBER: PN3MR-E3AASRC

Complete unit consists	of a platform an Optical Element	d element	Finish		Flange	A	ccessories	
PN3MR = 3" Non- IC Low Voltage Housing PN3MR REMOTE = 3" Non-IC Housing for Remote Transformer	= 3" MR16 0 - 45°	Standard C = Clear H = Haze G = Gold WMH = Warm Haze W = Gloss White	White Custom K = Cognac KH = Cognac Haze CC = Chocolate Custom	BU = Blush Custom Cont. BUH = Blush Haze GP = Graphite GPH = Graphite Haze	Blank = White die-cast SF = Self Flange SFWF = Self Flange Painted White	MBCLP = 40 Push On T Bar Clips (for 10 Units) PLE3 = Plaster Lip Extension for Max 2" Thick Ceiling	Spread Lens L-UV = UV Reduction Lens L-LPINK = Light Pink L-LSTRAW = Light Straw Lens	L-DAY = Daylight Lens L-SPINK = Surprise Pink Lens L-PLAV = Pale Lavender Lens L-HEX = Hex
COOPER LIGHTIN		B = Black MW = Matte	CCH = Chocolate Haze	PN = Pine PNH = Pine Haze SK = Sky SKH = Sky Haze	RAW = Natural Die Cast For additional option	L-SPD = Spread Lens L-LNR = Linear s please consult fact	ory.	Cell Louver

For additional options please consult factory. Matte white is recommended for self flanged reflectors

ADI042551

PHOTOMETRICS					
	90° 90°		30°	30° - (1)	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
OS 65MR16Q/0/NSP/10		D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
03 03/0/102/0/1031/10		4' 618 0.7 0.7	4' 250 1 1 2.3	2' 220 1.2 0.8 3.5	2' 712 0.6 0.5 2.0
Beam Spread: 10°		7' 202 1.1 1.1	7' 82 1.7 1.8 4.0	3' 98 1.9 1.3 5.2	3' 316 0.9 0.7 3.0
CBCP: 14,000		10' 99 1.6 1.6	10' 40 2.4 2.5 5.8	4' 55 2.5 1.7 6.9	4' 178 1.2 0.9 4.0
0201111,000		<u>12' 6" 63 2 2</u> Test # H1269	12' 6" 26 3 3.2 7.2 Test # H21273	5' 35 3.1 2.1 8.7 Test # H21273	5' 114 1.5 1.2 5.0 Test # H21274
OS 65MB160/40/EL	Degree@ 180°@ 90°	D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
00 0014111002/40/12	85° 0 1869	4' 130 2.3 2.3	4' 85 2.8 2.7 2.3	2' 104 2.1 1.9 3.5	2' 195 1.5 1.7 2.0
Beam Spread: 40°	75° 629 629	7' 42 4 4	7' 28 5 4.7 4.0	3' 46 3.2 2.9 5.2	3' 87 2.3 2.5 3.0
CBCP: 2,100	00 300 300	10' 21 5.8 5.8	10' 14 7.1 6.8 5.8	4' 26 4.3 3.9 6.9	4' 49 3.0 3.3 4.0
Test # H2126	55° 852 568 145° 10367 2765	12' 6" 13 7.2 7.2 Test # H21263	12'6" 9 8.9 8.4 7.2 Test # H21264	5' 17 5.3 4.8 8.7 Test # H21264	5' 31 3.8 4.2 5.0 Test # H21265
		-			
GE USUMR16C/NSP15	Degree@ 180°@ 90° 85° 0 1869	D FC L W 4' 445 1 1	D FC L W CB 4' 291 1.2 1.2 2.3	D FC L W CB 2' 252 1.5 1.0 3.5	D FC L W CB 2' 639 0.8 0.7 2.0
	75° 629 629	7' 145 1.8 1.8	7' 95 2.1 2.1 4.0	3' 112 2.2 1.5 5.2	3' 284 1.2 1.1 3.0
Beam Spread: 15°	65° 385 385	10' 71 2.5 2.5	10' 47 3 3 5.8	4' 63 2.9 1.9 6.9	4' 160 1.6 1.5 4.0
CBCP: 9,500	55° 568 284	12'6"46 3.1 3.1	12' 6" 30 3.7 3.7 7.2	5' 40 3.7 2.4 8.7	5' 102 2.1 1.8 5.0
Test # H2124		Test # H21240	Test # H21243	Test # H21243	Test # H21244
GE Q50MR16/C/NFL25		D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
	85° 0 1847 75° 622 622	<u>4' 174 1.6 1.6</u> 7' 57 2.9 2.9	<u>4' 108 2 2.2 0</u> 7' 35 3.5 3.8 0	<u>4' 27 4.5 3.4 6.9</u> <u>6' 12 6.7 5.1 10.4</u>	<u>6' 28 3.9 3.8 6</u> 8' 16 5.2 5.1 8
Beam Spread: 25°	<u>75 022 022</u> 65° 381 381	$-\frac{7}{10'}$ 28 4.1 4.1	<u> </u>	10' 4 11.2 8.5 17.3	<u>10' 10 6.5 6.4 10</u>
CBCP: 3,000	55° 561 561	12' 6" 18 5.1 5.1	12' 6" 11 6.2 6.7 0	12' 3 13.4 10.2 20.8	12' 7 7.8 7.7 12
Test # H2118	5 <mark>45° 4099 1366</mark>	Test # H21187	Test # H1193	Test # H21193	Test # H21185
GE Q50MR16/C/FL40	Degree@ 180°@ 90°	D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
	<u>85° 0 0</u>	4' 129 2.0 2.0	4' 66 2.8 2.8 2.3	2' 100 1.8 1.7 3.5	2' 159 1.5 1.6 2
Beam Spread: 40°	75° 0 0 65° 0 0	<u>7' 42 3.4 3.4</u> 10' 21 4.9 4.9	<u>7' 22 5.0 4.8 4.0</u> 10' 11 7.1 6.9 5.8	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<u>3'71 2.3 2.4 3</u> <u>4'40 3 3.2 4</u>
CBCP: 1,700	<u>55° 0 0</u>	<u>- 10 21 4.9 4.9</u> 12'6" 13 6.1 6.1	<u>10' 11 7.1 6.9 5.8</u> 12'6" 7 8.9 8.6 7.2	<u>4' 25 3.6 3.3 6.9</u> 5' 16 4.5 4.1 8.7	5' 25 3.8 4 5
Test # H2120		Test # H21249	Test # H21199	Test # H21202	Test # H21203
PH Q45MR16C/IRC/SP8	Degree@ 180°@ 90°	D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
	85° 0 821	4' 696 0.6 0.8	4' 342 1 0.9 2.3	2' 300 1.3 0.8 3.5	2' 722 0.7 0.7 2.0
Beam Spread: 8°	<u>75° 0 277</u>	7' 227 1.1 1.4	7' 112 1.8 1.7 4.0	3' 133 2.0 1.2 5.2	3' 321 1.0 1.0 3.0
CBCP: 16,000	65° 0 169 55° 125 250	- <u>10' 111 1.6 2</u> 12'6" 71 2 2.5	<u>10' 55 2.5 2.4 5.8</u> <u>13' 32 3.3 3.1 7.2</u>	<u>4' 75 2.6 1.5 6.9</u> <u>5' 48 3.3 1.9 8.7</u>	<u>4' 181 1.3 1.3 4.0</u> 5' 116 1.7 1.6 5.0
Test # H22402		- Test # H21223	Test # H21227	Test # H21227	
	Degree@ 180°@ 90°	D FC L W	D FC L W CB	D FC L W CB	D FC L W CB
GE Q42MR16C/VNSP	85° 1849 1849	4' 498 0.5 0.8	4' 284 0.8 0.8 2.3	2' 261 1.0 0.7 3.5	2' 571 0.5 0.6 2.0
Been Creede 00	75° 623 623	7' 163 0.9 1.4	7' 93 1.4 1.4 4.0	3' 116 1.5 1.0 5.2	3' 254 0.7 1.0 3.0
Beam Spread: 9° CBCP: 12,500	<u>65° 381 381</u>	10' 80 1.2 2	10' 45 2.1 2 5.8	4' 65 2.0 1.4 6.9	4' 143 0.9 1.3 4.0
Test # H2121	55° 281 0 045° 3190 2279	- <u>12' 6" 51 1.6 2.5</u> Test # H21212	12' 6" 29 2.6 2.5 7.2 Test # H21211	5' 42 2.5 1.7 8.7 Test # H21211	5' 91 1.2 1.6 5.0 Test # H21210
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OS Q37IMR16/IR/SP10	Degree@ 180°@ 90° 85° 0 0	<u>D</u> FC L W 4' 681 0.6 0.8	D FC L W CB 4' 356 1 0.9 2.3	D FC L W CB 2' 303 1.3 0.7 3.5	D FC L W CB 2' 909 0.7 0.5 2.0
D	75.9 0 0	7' 222 1.1 1.4	7' 116 1.7 1.5 4.0	3' 135 2.0 1.1 5.2	3' 404 1.0 0.7 3.0
Beam Spread: 10° CBCP: 13,100	65° 0 0	10' 109 1.6 2	10' 57 2.5 2.1 5.8	4' 76 2.6 1.4 6.9	4' 227 1.3 1.0 4.0
	55° 284 284	<u>12'6" 70 1.9 2.5</u>	<u>12'6" 36 3.1 2.7 7.2</u>	<u>5' 48 3.3 1.8 8.7</u>	<u>5' 145 1.6 1.2 5.0</u>
				Test # H21255	
GE Q20MR16C/VNSP7	Degree@ 180°@ 90° 85° 0 0	D FC L W 4' 312 0.5 0.5	D FC L W CB 4' 153 0.8 0.5 2.3	D FC L W CB 2' 150 0.9 0.5 3.5	D FC L W CB 2' 482 0.4 0.3 2.0
	<u>85° 0 0</u> 75° 0 0	<u>- 4 312 0.5 0.5</u> 7' 102 0.8 0.8	7' 50 1.4 0.9 4.0	3' 67 1.3 0.8 5.2	3' 214 0.6 0.5 3.0
Beam Spread: 7°	<u>65° 0 0</u>	10' 50 1.2 1.2	10' 24 2.1 1.3 5.8	4' 38 1.7 1.0 6.9	4' 120 0.8 0.6 4.0
CBCP: 7,400	55° 0 0	12' 6" 32 1.5 1.5	12' 6" 16 2.6 1.7 7.2	5' 24 2.1 1.3 8.7	5' 77 1.0 0.8 5.0
Test # H21237	45° 1152 1382	Test # H21232	Test # H21234	Test # H21234	Test # H21237
Notes and Definitions:					

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

• Data is based upon bare lamps photometrics.

• 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..

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



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