Available from Wamco









Q-RAY

lumens ouput.

Applications

Accent lighting at commercial building, hotel, lounge, shopping mall, showroom, museum, gallery and landscape.

Design Concept

Unlike many MR-16 with LED, Q-RAY™ MR-16 offers direct Halogen replacement. With its unique air-flow design, the overall heat management improves and thus ensures it lasts per life span claimed.

There are three air-flow vents around the body for



714.545.5560

Fax: 714.545.6093

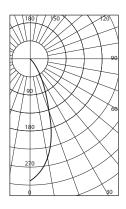
proper ventilation and heat dissipation. This design achieves lower body temperature and improves LED lifespan. The structural design is to ensure mechanical shock-prove to protect the product.

Photometric Test Report

Q-RAY™ products go through stringent tests before its release to the market.

Digital Lighting Inc - LED MR16 Lamp, CAT# QMR16-USF-30G533 With Individual Plastic Focusing Lenses Three LEDs. Luminaire Output - 151 LMS. Lamp Operating At 12 Vac And 3.2 Watts

Intensi	ty (Candle	power) Sum	ma
Angle	Mean CP	Lumens	
0	309		
5	287	26	
10	249		
15	209	56	
20	146		
25	68	34	
30	38		
35	27	17	
40	20		
45	13	10	
50	8		
55	4	4	
60	3		
65	2	2	
70	2		



Zonal Lu	mens And	Percentages
Zone	Lumens	%Luminaire
0-30	117	77.25
0-40	134	88.47
0-60	148	97.85
0-90	151	100.00
40-90	17	11.53
60-90	3	2.15
90-180	0	0.00
0 -180	151	100.00

0

80 85

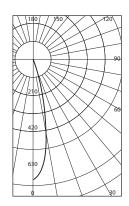
Efficacy (Lumens Per Watt): 47.3

*** This is an Absolute Test ***

Digital Lighting Inc - LED MR16 Lamp, CAT# QMR16-USN-30G533 With Individual Plastic Focusing Lenses Three LEDs. Luminaire Output = 151 LMS.

Lamp Operating At 12.0 Vac And 3.2 Watts Intensity (Candlepower) Summary

Mean CP	Lumens	
717		
646	54	
411		
187	54	
86		
44	21	
26		
15	10	
9		
6	5	
4		
4	3	
3		
2	2	
1		
1	1	
0		
0	0	
0		
	Mean CP 717 646 411 187 86 44 426 15 9 6 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mean CP Lumens 717 646 54 411 187 54 86 44 21 26 15 10 9 6 5 4 3 3 2 2 1 1 1 0 0 0



Zonal L	umens And	Percentage:
Zone	Lumens	%Luminaire
0-30	130	86.01
0-40	140	92.50
0-60	148	97.90
0-90	151	100.00
40-90	11	7.50
60-00	3.2	10

Ω

151

0.00

100.00

90-180

0-180

Efficacy (Lumens Per Watt): 47.3

*** This is an Absolute Test ***

Application Requirements

This is a drop-in replacement. Q-RAY™ MR-16 is powered by 12V AC (installed transformer) or 12V DC (new installation). Simple and easy to handle. However, if flickers occur, please verify if existing transformer calls for minimum load requirement. If problem exists, please change the electronic transformer.

Light Emitting Diodes

Stringent test requirement will allow high quality lighting class LEDs to be used. This philosophy is maintained in the design of Q-RAY $^{\text{TM}}$ MR16 product line.

Body Material & Construction

Q-RAYTM MR-16 body is constructed using Alloy material with ability to sink heat fast and effectively. The air-flow vent design provides an alternative route for heat dissipation to ensure Q-RAYTM MR-16 lasts per life span claimed.

Optical Properties

The Optical system adopted by Q-RAY MR-16 is based on conventional beam angles such as flood and narrow flood.

Additional to that, Q-RAYTM MR-16 offers consistent Color Temperature. Every bulb will illuminate within stipulated Color Temperature according to ANSI C78.377-2008 specifications. This is extremely important to ensure whole interior using Q-RAYTM MR-16 demonstrates consistent shade of white.

Technical Specifications

Total Flux Produced (Typical)	150 lumens
Minimum Power	3.2 W
Maximum Power	3.6 W
CCT Level	2700K (2580K to 2870K)
	3000K (2870K to 3220K)
System Efficacy	minimum 44 Lumens per Watt
Color Rendering Index, CRI	Minimum 82
Illumination Angle (Typical)	24° for Narrow Flood (N)
	36° for Flood (F)
Dimension	H 1.58" (without pin), 1.89" (with pin)
Diameter	1.99" (subject to 1% tolerance)
	·

Note: CCT level is accordance to ANSI C 78.377-2008 Specifications.

Benefits of O-RAY™ MR-16

- No heat generated through beam.
 Protect your valuables on display.
- Lower power consumption to minimize carbon emission to protect the environment.
- · No Mercury content.
- · No UV emission.
- Durable & long lasting up to 50,000 hours or more.
- Retrofitable directly to most MR-16 halogen fixtures.
- Accept a wider voltage fluctuation band compared to halogen.
- Lifetime* warranty on color consistency.
- Dimmable with specific transformers.

Ordering Information

Part Number	Product Description
Q MR16-US F-30 G533	Q-RAY™ MR16, with Flood Lens, 3000K CCT with GU5.3 Connector, 150 Lumens
Q MR16-US N-30 G533	Q-RAY™ MR16, with Narrow Flood Lens, 3000K CCT with GU5.3 Connector, 150 Lumens
Q MR16-US F-27 G533	Q-RAY™ MR16, with Flood Lens, 2700K CCT with GU5.3 Connector, 150 Lumens
Q MR16-US N-27 G533	Q-RAYTM MR16, with Narrow Flood Lens, 2700K CCT with GU5.3 Connector, 150 Lumens

 $*Warranty\ depends\ on\ LED\ drive\ capability.$ Lifetime warranty expires when flux level of LED\ drops\ below\ 50\% of\ original\ brightness.

Note: While all effort has been made to ensure this product works well in existing system, it is known that most electronic transformers use with minimum load requirement may not be compatible with this product. It is recommended to use this product with magnetic type transformers with no minimum load requirement.

©2009 Digital Lighting Incorporated

All rights reserved. Reproduction in whole or in part is strictly prohibited without the prior written consent of Digital Lighting Incorporated. The content in this document serves as informational purpose only and does not form part of any quotation or contract. All information is believed to be accurate and may be changed without prior notice. No liaibility will be accepted by the publisher or Digital Lighting Incorporated for any consequence of its use. The compilation (meaning the collection, arrangement and assembly) of all content on this document is also the exclusive property of Digital Lighting Incorporated and/or its respective owners and protected by copyright laws.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for wamco manufacturer:

Other Similar products are found below:

WL-2195A5-28V WL-19041351 WL-B05I03L0300 WL-1090D1-12V WL-1061QC1 WL-192A1250 WL-2153A5 WL-19012353 WL-19010351 WL-19210250 WL-19091352 WL-19040352 WL-19040252 WL-1090QC4-28V WL-19050352 WL-1090QC3-28V WL-B05G10F0900 WL-6091QM5-24V WL-19040257 WL-19210350 WL-19080255 WL-192A0351 WL-1090A1-28V WL-192A1350 WL-19210251 WL-19040451 WL-19040353 WL-19011352 WL-19081350 WL-192A0350 WL-19040357 WL-19050257 WL-1062C1 WL-1090A5-12V WL-19090350 WL-1860235W3D WL-1051QC1 WL-1052QC5 WL-6391Q2D5-24V WL-2151A1 WL-19090252 WL-1032D5 WL-192A1251 WL-2191U5-12V WL-2152A5 WL-19090355 WL-6391Q2M3-12V WL-1060QC5 WL-2150A3 WL-19210351