

# LUXEONICS WORLDWIDE

Leading the world in remote control, programmable multi-colour lighting innovations

## LUXEONICS® DigiHalogen™ (MR16)



### Specifications:

Bulb Type: Push-In Retro-fit/Replacement Lamp

Base Type: 2 Pin GX5.3

Light Source: High Power Solid State Luxeon

Housing: Aluminium coated with Oxyplus Powder Coating

Input Voltage: 12V AC/DC with Reversed Polarity Protection

Power Consumption: 4W

Typical Light Output: 60 ~ 132 Lumens (Depends on the colour)

Lens: Optical Grade Acrylic

Lens Efficiency: >85%

AC/DC to DC Converter Efficiency: >80%

Total Length: 50 mm (including pins)

Estimated Lifespan of Luxeon/LEDs: 100,000 hours

Operation Temperatures: -30° C to 90° C

Fully Dimmable

No Ultraviolet (UV) Radiation

No Heat Radiation in Light Beam

### Typical/Specific Applications:

- General Lighting • Beacons • Architectural Highlighting • Casino • Accent Lights • Offshore and Marine
- Recreational and Portable Lighting • Airport • Hard-to-Reach and Hazardous Location

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LUXEONICS WORLDWIDE is a pioneer in Solid State Lighting. LUXEONICS® DigiHalogen™ is built with Patented Technology and by utilising the latest solid state lighting technologies, we are able to extend the operational life of light source to 100,000 hours (about 22 years for 12 hours usage per day).

LUXEONICS® DigiHalogen™ is made from custom-made injection moulding aluminium by a certified ISO 9002 factory. It's coated with Oxyplus™ Powder Coating for long lasting and quality finishes for suitable for indoor and outdoor usage. They are designed as a retro-fit/replacement for standard halogen lamp.

Incorporated with smallest AC/DC to DC converter with efficiency of >80%, it has sophisticated proprietary temperature and current control circuitry, thereby ensuring the safest and longest operation.

The collimating lens is specially designed by Fraen™ Corporation to give an efficiency of >85%, thus producing an uniform and focus light output.

The operating lifetime of LUXEONICS® DigiHalogen™ is enhanced by utilising high quality components and materials, coupled with our high technology manufacturing facility, to produce unsurpassed quality to meet the international standards.

LUXEONICS® DigiHalogen™ is produced in conformance to criteria set by IEC, CE, UL and EN standards.

To ensure maximum performance of LUXEONICS® DigiHalogen™, use only drivers, power supply units (PSU) and dimming controls with specified voltage and current ratings which are UL or similar approved types.

Installing LUXEONICS® DigiHalogen™ outdoors in wet environments using mains powered drivers, PSU and dimming controls which must be properly insulated/isolated to avoid electrocution and cannot be used in submersed applications without the proper waterproof housings.

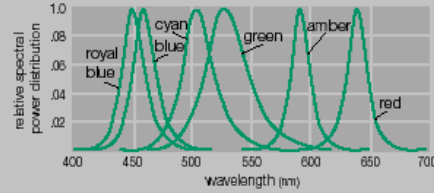
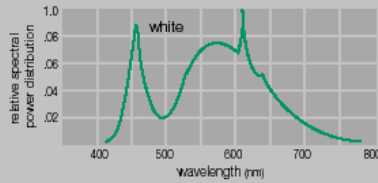
LUXEONICS® DigiHalogen™ operating temperatures is from -30 degrees Celsius to 90 degrees Celsius.

LUXEONICS® DigiHalogen™ is manufactured to comply with the following safety criteria for CE approbations:

EMC: IEC-EN55015, EN61000, and EN61547

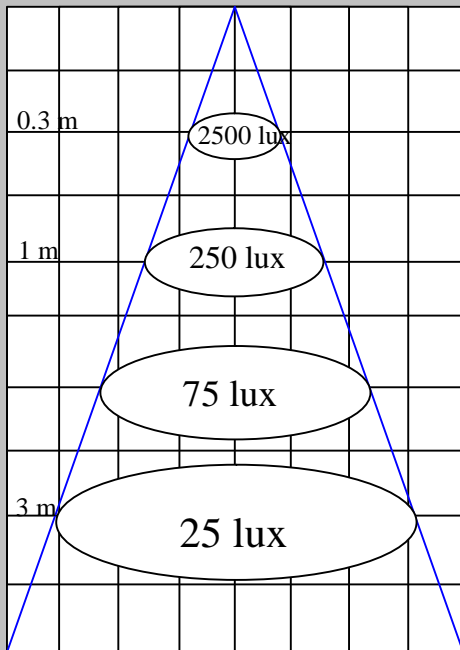
**PHOTMETRIC SPECIFICATIONS FOR LUXEONICS® DIGIHALOGEN™**

Luxeon Colour	Royal Blue	Cyan	Green	Amber	Red-Orange	Red	White	Warm White
Dominant Wavelength	455nm	505nm	530nm	590nm	617nm	625nm	5500K°	2700K°
Total Light Output (Lumens)	340mW	64	64	108	150	132	65	54

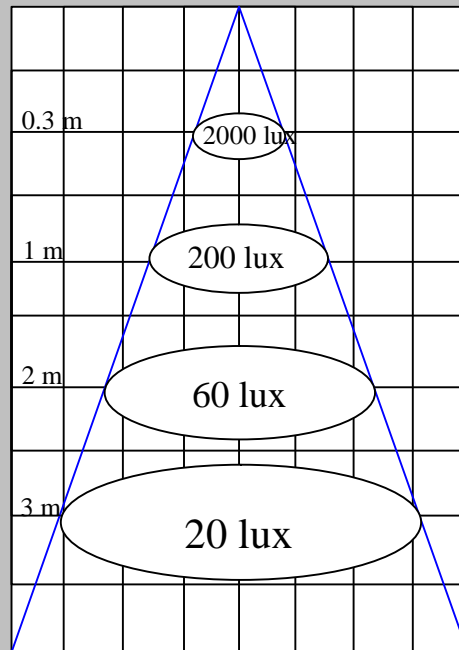


Note: The dominant wavelength is the perceived color derived from the CIE1931 chromaticity chart.

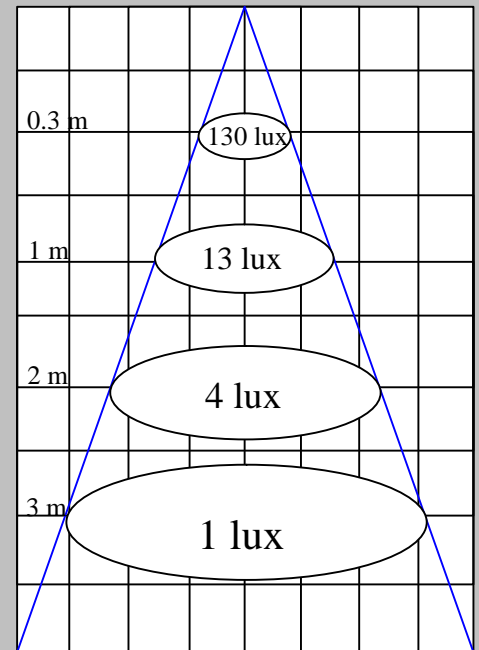
**ILLUMINANCE CHART AT VARIOUS DISTANCES FOR A TYPICAL 3 WATT WHITE LUXEONICS® DIGIHALOGEN™**



10 Degree Angle Narrow Beam Lens



30 Degree Angle Medium Beam Lens



90 Degree Wide Beam (without optics)



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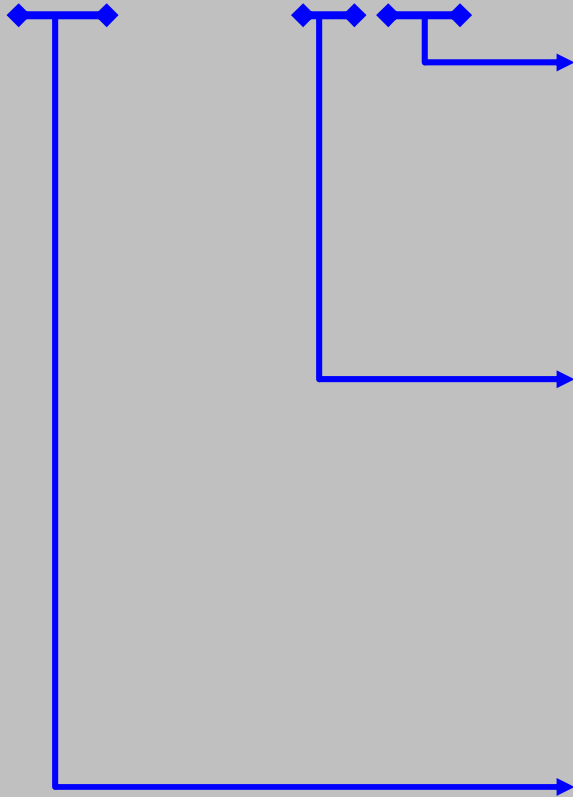
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# LUXEONICS® DIGIHALOGEN™ ORDERING CODE

12V-LX-AA-MR-16-BB-CC



Lens Option	
Code	Beam Angle
10	10 Degree Beam
30	30 Degree Beam
90	90 Degree Beam

Power Options	
Code	Power
1W	1 Watt
2W	2 Watt
3W	3 Watt
4W	4 Watt
5W	5 Watt
6W	6 Watt

Colour Options	
Code	Colour
WH	-White
RB	-Royal Blue
GN	-Green
CY	-Cyan
WW	-Warm White
RD	-Red
RO	-Red Orange
AM	-Amber

Voltage	Source	Colour	Housing	Base/Interface	Power	Beam Angle
12V-AC/DC	LX-Luxeon	WH-White	MR	16	1W	10
		RB-Royal Blue			2W	30
		GN-Green			3W	90
		CY-Cyan			5W	
		WW-Warm White			6W	
		RD-Red				
		RO-Red Orange				
		AM-Amber				

Please refer to the following example for reference:

- 12V-LX-WH-MR-16-1W-10 = 12V AC/DC Luxeon Source WHITE Colour MR Housing 16 Base 1 Watt 10 degree
- 12V-LX-RB-MR-16-3W-30 = 12V AC/DC Luxeon Source ROYAL BLUE Colour MR Housing 16 Base 3 Watt 30 degree
- 12V-LX-WW-MR-16-3W-90 = 12V AC/DC Luxeon Source WARM WHITE Colour MR Housing 16 Base 3 Watt 90 degree

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