

ecoBright® H2 LED Downlights

ecoBright® introduces a new range of reliable, highly efficient and long life LED downlights. These lamps are specially designed and optimised for retrofit applications.

This note details the product characteristics and technical details for the ecoBright® H2 LED downlight range of products - for more information please see the ecoBright® website.

What is the H2 LED Downlight lamp?

The H2 LED Downlight is a retrofit LED range of lamps consuming 6W of power and supplied in two base types: MR16 GU5.3 & main voltage GU-10.

Product Name and types

The products names and types apply:

- **ecoBright® LED, H2 MR16, Warm White, 6W**
- **ecoBright® LED, H2 MR16, Daylight, 6W**
- **ecoBright® LED, H2 GU-10, Warm White, 6W**
- **ecoBright® LED, H2 GU-10, Daylight, 6W**



Figure 1. MR16 GU5.3 lamp (left) & GU-10 lamp bases for the ecoBright® R4 LED Downlight range.

Both types of LED H2 lamps are available in 30°, 45° and 50° beam angle downlight versions only.

Applications

ecoBright® LED H2 lamps can replace 50W & 35W halogen downlight bulbs where luminance levels required are not specifically task oriented and lighting distances are short. ecoBright® LED H2 lamps can be retro-fitted into most halogen fittings with ease.

Typical applications for which this product has been successfully used include: Display cabinets (jewelry cabinets), Marker lighting, Decorative lights, Elevator/Lift compartments, Track Lighting, wall and feature highlighting such as artwork and for confined areas where 40-80Lux is required.

As with existing halogen downlight bulbs it is important to ensure adequate ventilation and

clearance from insulation complies with local standards - please ensure you observe safety first at all times. ecoBright® LED H2 lamps produce light levels equivalent to 20W and 35W halogen lamps.

Do not use outdoors, in wet/humid areas or in totally enclosed fittings.

If you are unsure whether this lamp suits your needs, contact your nearest ecoBright® office.

Lamp Markings

ecoBright® LED H2 lamps are marked with C-Tick approval power ratings and lamp colour.

Power Supply

The ecoBright® LED H2 MR16 GU5.3 lamp will function reliably with 12-18VAC or 12-24VDC power supplies. Compatibility with 12VAC electronic transformers is not guaranteed. A transformer for the MR16 GU5.3 lamp is also available. If you're unsure whether your transformer will work - have an electrician check it for you.

The ecoBright® LED H2 GU-10 lamp is a mains wired electricity model and must be installed by an electrician.

Dimming

ecoBright® LED H2 MR16 GU5.3 lamps are dimmable with linear AC transformers.

Savings Guarantee

ecoBright® LED H2 lamps are guaranteed to save a minimum of 80% of the energy spent running a halogen lamp.

Savings Calculator

A savings calculator is available for the range of ecoBright® LED H2 lamps - for more information contact your nearest ecoBright® office.

Product Warranty & Average Rated Life

ecoBright® LED H2 lamps have a 12 month warranty from date of purchase and an average rated life of 35,000 hours.

Packaging & Pack Sizes

ecoBright® LED H2 lamps come individually packed in a blister proof plastic inner cover and single cardboard box outer.

For larger orders or stock purposes, there are 25 lamps to an inner shipping box and 100 lamps to an outer shipping box collections.

Halogen Lamp Retrofit Assessment Checklist

- ✓ 1. Check for lamp type that suits your specific application (MR16 GU5.3 or GU-10 base).
- ✓ 2. For MR16 GU5.3 lamp retrofits check to ensure the existing transformer complies with power needs in Table 1. below.
- ✓ 3. Confirm hours of operation & cost of electricity for savings calculation.
- ✓ 4. Confirm old lamp power for savings calculation.
- ✓ 5. Conduct lamp count and advise ecoBright®



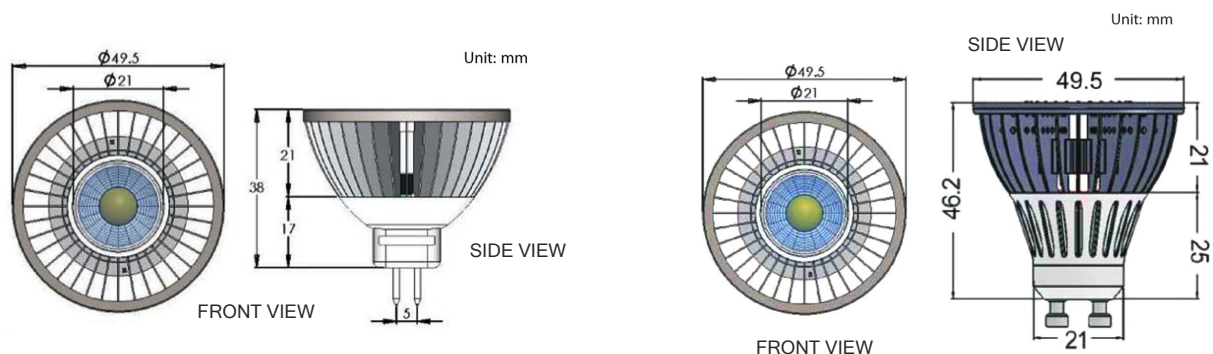
WARNING - SAFETY FIRST ALWAYS

Downlight power supplies (transformers) may be located in confined spaces - always exercise caution when entering a confined space. Never tamper with electrical wires - have a qualified electrician check your lamp fittings or transformers if you are unsure of compatibility with ecoBright® LED's.

Product Technical Information

Product Name	Product Code	Colour (°K)	Type	Lumen Output (lm)	Power Supply (V/Amps)	Features at a glance
 ecoBright® LED H2 MR16, 6W	501W30	Warm White 3000°K	30° beam angle	320 ±10%	12-18V AC 12-24V DC <500mA	<ul style="list-style-type: none">• High power 6W LED with 4 chips• New heatsink enables higher lumen output• Minimum of 70% lumen maintenance after 35,000 hours• More energy efficient than incandescent and halogen lamps• Cool beam (no UV or thermal radiation)• Not to be used in outdoor wet/humid areas or totally enclosed fittings• ecoBright® LED H2 MR16 lamp is dimmable with linear AC transformers
	501W45		45° beam angle	300 ±10%		
	501D30	Daylight 5500°K	30° beam angle	350 ±10%		
	501D45		45° beam angle	330 ±10%		
 ecoBright® LED H2 GU-10, 6W	502W30	Warm White 2700°K	30° beam angle	320 ±10%	100-240V AC only <60mA	
	502W45		45° beam angle	300 ±10%		
	502D30	Daylight 5500°K	30° beam angle	350 ±10%		
	502D45		45° beam angle	330 ±10%		

Table 1. Product technical information for ecoBright® LED H2 MR16 & GU-10 6W lamps. Features listed apply to both lamps unless specifically detailed otherwise.



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