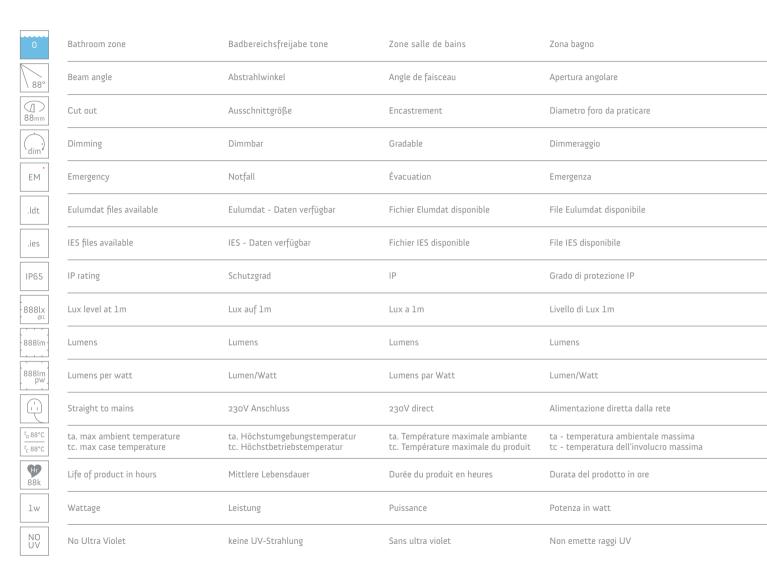


# HALERS LIGHTING











Zona de baño	Badrums Zon
Ángulo de la luz	Spridningsvinkel
Agujero de empotrar	Håltagning
Regulable	Dimring
Emergencia	Nödfall
Se suministran archivos Eulumdat	Filer för spridningsvinkel finns
Se suministran archivos IES	IES filer finns tillgängliga
Valor IP	IP Klass
Nivel de Lux 1m	Lux värde på 1m
Lúmenes	Lumens
Lúmenes por vatio	Lumens per watt
Directo a 230V	230v direkt
ta. Temperatura ambiental máxima tc. Temperatura máxima de la luminaria	ta. maximala omgivande temperaturen tc. maximala fall temperatur
Duración del producto en horas	Produktens livstid i timmar
Vatios	Watt
No ultravioleta	Ingen UV-strålning

#### **CONTENTS**

2.	Conce	nt
	001100	

- 4. Halers H2
  - 6. Product codes & order info
  - 8. Photometry
  - 10. Gallery
- 12. Halers H4
  - 14. Photometry
- 16. Halers H6
- 20. MASTER LEDSPOT GU10 40°
- 22. MASTER LEDSPOT GU10 25°
- 23. NOVALLURE B35
- 24. Information

### The Concept

## Save up to $252 kg \ \text{of} \ C0^2 \ \text{emissions per fitting per year}$

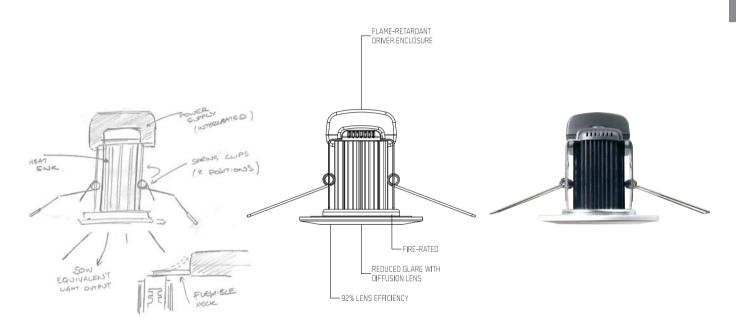


HALERS H2 NW (4000° kelvin) at a private residence



#### Why

The halogen lamp, with its convenient size, simple installation and a good light output is one of the most popular lamps in the world. Over 100 million are sold every year. A halogen lamp however, is a very inefficient light source; a 50W halogen actually uses up to 75W of power, due to the transformer. It also has a very short life, resulting in regular expensive maintenance and replacement lamp expenditure. The Halers H2, is designed to retain all the positives of a halogen, with none of the associated drawbacks. For instance, at only 7.9W, it uses 1/10th of the power of a halogen (50W) installation.



#### How

Using the most advanced LED technology, and drawing upon its 10 years of LED experience, Halers Lighting have created the Halers H2. The Halers H2 incorporates patented technology which ensures exceptional long life through ingenious heat management. Ground-breaking optics produce a perfect 34° beam with virtually no loss of light output. At the forefront of LED electronics, Halers Lighting has worked extensively to pioneer a functional mains dimming driver that works with both leading and trailing edge dimmers. All of this combines to produce an efficient, high power LED luminaire which makes retrofit a realistic and trouble free option.

#### Wow

Halers H2 is 90% more efficient than a halogen option, and lasts 30 times longer, saving time, money and maintenance, whilst dramatically reducing carbon emissions, landfill waste and hazardous materials entering the ecosystem.

Features include. Integrated LED driver, Part B, C, E, L, & P compliance, Fire-rated, IP65 as standard, straight to mains installation and only 7.9W power consumption (10W dim)

#### Halers H2

IP65, fire-rated LED downlight

# Save up to 5 lamps

save 90%

#### w Features

- 'Integrated LED driver.
- ° Adjustable driver position.
- ° 2 position retaining clips
- ° Meets building regulations
- ° Fire-Rated.
- ° IP65 as standard
- ° Various colours and finishes
- ° Unique lens design.
- ° 34° beam angle.
- ° Mains dimmable
- ° Flexible cut-out size
- Flying lead fitted
- Double insulated
- ° 450 lumen output
- ° 7.9W power consumption.
- ° Soft start.
- ° CRI. 70
- ° Fast return on investment
- ° Safety Extra Low Voltage (SELV)

## Benefits

- Straight to mains connection.
- ° Flexibility during installation.
- ° 6-35mm ceiling thicknesses
- ° Part B, C, E, L, & P compliance.
- ° For 30, 60 & 90 min ceilings.
- ° Product fits all applications.
- ° For all decorative requirements
- ° 92% efficient lens
- ° Wide spread of light.
- ° 0-100% dimming control.
- ° Fits a 60-70mm cut-out
- Reduced installation time
- ° No earthing required
- ° Brighter than an 50W Halogen.
- ° Surpasses energy and efficacy requirements for part L.
- ° 90% energy saving (non dim)
- ° Immediate cost saving
- Increased safety in vulnerable environments



Halers H2

High quality is often an overused term. At Halers Lighting however, producing top quality light fittings is what we do. Precision engineering, rigorous QC procedures, and only the very best base parts and components are selected and combined with exceptional workmanship to create lighting of the finest quality. High technology, pioneering spirit and the quest for perfection are the basic elements of all Halers Lighting luminaries.

#### STANDARD & MAINS DIMMABLE VERSIONS AVAILABLE

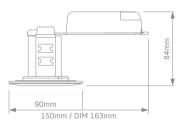












HALERS H2 NW (4000° kelvin) at Inglorious Rebel, Leicestershire



IP65











.ldt





NW





450lm





WW



Lux/Lumen readings refer to non dimming Halers H2. See website for full specifications

#### Halers H2 finishes



#### DL/M/EMERGENCY PACK



The maintained through-hole DL/M/EMERGENCY PACK is designed to be used in conjunction with the Halers H2. When in emergency mode, the pack will power the Halers H2 at 80mA, providing approximately 10% of the light output when compared to normal running of the Halers H2.

- ° Can be used in conjunction with other light fittings using between 1 & 3 high power LEDs.
- ° Will provide a minimum of 3 hours of emergency lighting.
- ° Has a green indicator light indicates charging of the batteries.

# DL/CONVERT

Hole converter plate — The power of the Halers H2 allows retrofit into locations where larger downlights were previously installed. To aid installation, Halers Lighting has designed a hole converter plate in, allowing the Halers H2 to be placed into ceiling holes up to 150mm in diameter. Halers H2 sold separately.

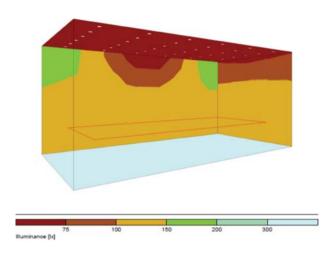
Available in - Matt Black, Chrome, Polished Gold, Silver and White finishes.

### Product codes & Varieties

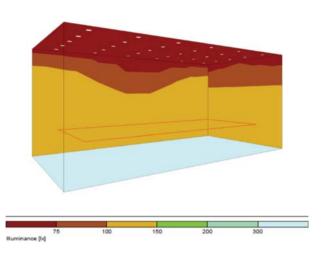
code	description	dimensions	cut-out
DL/BA/F/NW	Brushed Alu IP65 fire-rated downlight. 34° beam LED in neutral white	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/BLK/F/NW	Matt Black IP65 fire-rated downlight. 34° beam LED in neutral white	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/CR/F/NW	Chrome IP65 fire-rated downlight. 34° beam LED in neutral white	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/SIL/F/NW	Silver IP65 fire-rated downlight. 34° beam LED in neutral white	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/PG/F/NW	Polished Gold IP65 fire-rated downlight. 34° beam LED in neutral white	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/WH/F/NW	White IP65 fire-rated downlight. 34° beam LED in neutral white	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/BA/F/WW	Brushed Alu IP65 fire-rated downlight. 34° beam LED in warm white	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/BLK/F/WW	Matt Black IP65 fire-rated downlight. 34° beam LED in warm white	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/CR/F/WW	Chrome IP65 fire-rated downlight. 34° beam LED in warm white	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/SIL/F/WW	Silver IP65 fire-rated downlight. 34° beam LED in warm white	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/PG/F/WW	Polished Gold IP65 fire-rated downlight. 34° beam LED in warm white	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/WH/F/WW	White IP65 fire-rated downlight. 34° beam LED in warm white	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/BA/F/NW/DIM	Brushed Alu IP65 fire-rated downlight. 34° beam LED, neutral white, dimming	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/BLK/F/NW/DIM	Matt Black IP65 fire-rated downlight. 34° beam LED, neutral white, dimming	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/CR/F/NW/DIM	Chrome IP65 fire-rated downlight. 34° beam LED, neutral white, dimming	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/SIL/F/NW/DIM	Silver IP65 fire-rated downlight. 34° beam LED, neutral white, dimming	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/PG/F/NW/DIM	Polished Gold IP65 fire-rated downlight. 34° beam LED, neutral white, dimming	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/WH/F/NW/DIM	White IP65 fire-rated downlight. 34° beam LED, neutral white, dimming	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/BA/F/WW/DIM	Brushed Alu IP65 fire-rated downlight. 34° beam LED, warm white, dimming	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/BLK/F/WW/DIM	Matt Black IP65 fire-rated downlight. 34° beam LED, warm white, dimming	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/CR/F/WW/DIM	Chrome IP65 fire-rated downlight. 34° beam LED, warm white, dimming	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/SIL/F/WW/DIM	Silver IP65 fire-rated downlight. 34° beam LED, warm white, dimming	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/PG/F/WW/DIM	Polished Gold IP65 fire-rated downlight. 34° beam LED, warm white, dimming	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/WH/F/WW/DIM	White IP65 fire-rated downlight. 34° beam LED, warm white, dimming	<b>Ø</b> 90 x <b>h</b> 84mm	Ø 60-70mm
DL/M/EMERGENCY PACK	Maintained through hole emergency pack. 3 hour	Ø 60 x <b>l</b> 500mm	Ø 6omm+
DL/CONVERT BLK	Matt Black hole conversion plate for extended retrofitting	<b>Ø</b> 170 x <b>h</b> 27mm	Ø 60-150mm
DL/CONVERT CR	Chrome hole conversion plate for extended retrofitting	<b>Ø</b> 170 x <b>h</b> 27mm	Ø 60-150mm
DL/CONVERT PG	Polished Gold hole conversion plate for extended retrofitting	<b>Ø</b> 170 x <b>h</b> 27mm	Ø 60-150mm
DL/CONVERT SIL	Silver conversion plate for extended retrofitting	<b>Ø</b> 170 x <b>h</b> 27mm	Ø 60-150mm
DL/CONVERT WH	White hole conversion plate for extended retrofitting	<b>Ø</b> 170 x <b>h</b> 27mm	Ø 60-150mm

### Halers H2 photometry

#### 50W GU10 Halogen



#### Halers H2



Example installation -  $6 \times 3 \times 3m$  room.

Lux level required - 500lx on workplane

#### Results.

Halers H2 (NW) - x 30 (240W)

Typical 50W GU10 - x 36 (1800W) - Save 1560W

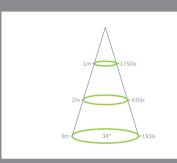
## "How many lights do I need?"

# Neutral white

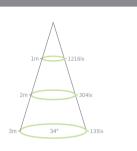
#### Polar Curve

# 150° 180° 150° 120° 90° cd / 1000lm 60° 3480 30° 0° 30°

#### Neutral white



#### Warm white



Halers Lighting publish the exact light output details of our fittings, which are confirmed by independent 3<sup>rd</sup> party test houses, including the Photonics Cluster (UK), and The Lighting Association (UK). We test the 'Absolute Photometry' (LM79) at room temperature, of the complete fitting including driver. We believe that independent testing is the only solution to provide consumers with absolute confidence in our products. This has been driven by the current trend within the LED market for publishing unverified and misleading results.

Spec sheets IES files Eulumdat files BIM content

download at halers.com

## 50W Halogen / Halers H2 comparison



50W halogen (3000° kelvin) at a private residence



HALERS H2 WW (3000° kelvin) at a private residence



HALERS H2 NW (4000° kelvin) at a private residence





50W halogen (3000° kelvin) at a private residence

HALERS H2 NW (4000° kelvin) at a private residence

These genuine photographs show the real life result of replacing 50W lamps with Halers Lighting's Halers H2 downlight.

#### Halers H4 (Low-Glare)

IP20 Adjustable mains dimming LED downlight

## Save up to 252Kg of CO<sup>2</sup>

#### **Features**

- ° Unique lens design.
- ° Highly accurate colour binning.
- ° Flying lead fitted.

- ° 10W power consumption.

## Benefits

- ° Install without light distraction.
- ° Flexibility during installation.
- ° For various ceiling thicknesses.

- ° Brighter than an 50W GU10.
- ° 90% energy saving.



Halers H4 White, Chrome, Polished gold and Black

The Low-Glare Halers H4 is a fully recessed low-glare directional downlight. The exclusive slim-line bezel ensures luxury aesthetics, while the deep 25mm black baffle reduces glare and ensures the light source is unseen. Ideally suited for use in restaurants, art galleries, museums, cinemas and anywhere lighting is required without the light source being noticed.





WW

1260lx

27lm pw

@1

- 270lm

NW .ldt .ies IP20 1373lx 380lm @1 10w 38lm pw

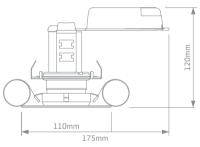
#### 0-100% MAINS DIMMABLE









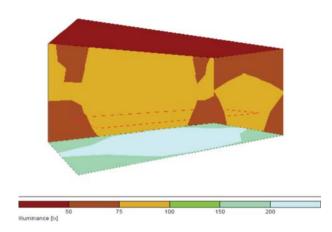


HALERS H2 NW (4000° kelvin) at Inglorious Rebel, Leicestershire

code	description	dimensions	cut-out
DL/01/WH/NW/DIM	White IP20 adjustable dimming downlight. 34° beam LED. Neutral white	<b>Ø</b> 110 x <b>h</b> 120mm	Ø 90-100mm
DL/01/WH/WW/DIM	White IP20 adjustable dimming downlight. 34° beam LED. Warm white	Ø 110 x <b>h</b> 120mm	Ø 90-100mm
DL/01/BLK/NW/DIM	Black IP20 adjustable dimming downlight. 34° beam LED. Neutral white	<b>Ø</b> 110 x <b>h</b> 120mm	Ø 90-100mm
DL/01/BLK/WW/DIM	Black IP20 adjustable dimming downlight. 34° beam LED. Warm white	<b>Ø</b> 110 x <b>h</b> 120mm	Ø 90-100mm
DL/01/CR/NW/DIM	Chrome IP20 adjustable dimming downlight. 34° beam LED. Neutral white	<b>Ø</b> 110 x <b>h</b> 120mm	Ø 90-100mm
DL/01/CR/WW/DIM	Chrome IP20 adjustable dimming downlight. 34° beam LED. Warm white	<b>Ø</b> 110 x <b>h</b> 120mm	Ø 90-100mm
DL/01/PG/NW/DIM	Polished gold IP20 adjustable dimming downlight. 34° beam LED. Neutral white	<b>Ø</b> 110 x <b>h</b> 120mm	Ø 90-100mm
DL/01/PG/WW/DIM	Polished gold IP20 adjustable dimming downlight. 34° beam LED. Warm white	Ø 110 x <b>h</b> 120mm	Ø 90-100mm

#### Halers H4 photometry

#### 50W Halogen (in low-glare housing)



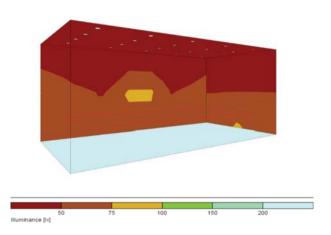
Example installation - 6 x 3 x 3m room. Lux level required - 200lx on workplane

#### Results.

Halers H4 (NW) - x 16 (160W)

Typical LG 50W GU10 - x 16 (800W) - Save 640W

#### Halers H4



The Relux output shows our Low Glare Halers H4 truly is low glare; compared to a conventional 50W low glare product, the walls in the Halers H4 scenario are receiving very little light. Instead a greater proportion of the light is directed towards the floor, increasing the lux over the whole floor surface, rather than on the walls.

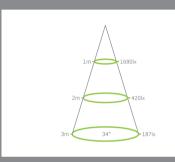
## "How many lights do I need?"

e sales@halers.com w halers.com

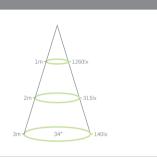
#### Polar Curve

# 

#### Neutral white



#### Warm white



Halers Lighting publish the exact light output details of our fittings, which are confirmed by independent 3<sup>rd</sup> party test houses, including the Photonics Cluster (UK), and The Lighting Association (UK). We test the 'Absolute Photometry' (LM79) at room temperature, of the complete fitting including driver. We believe that independent testing is the only solution to provide consumers with absolute confidence in our products. This has been driven by the current trend within the LED market for publishing unverified and misleading results.

Spec sheets IES files Eulumdat files BIM content

download at halers.com

#### Halers H6

IP20, High power fixed downlight

Save up to 40%

save

#### **Features**

- ° Compatible with building control ° Flexibility with other energy
- ° 60,000 hour life (approx.)
- ° 80° beam angle.

- ° 35W power consumption.

#### Benefits

- ° Wide spread of light.

- 2x 18W, & 1 x 26W)
- ° Surpasses energy and efficacy requirements for part L.



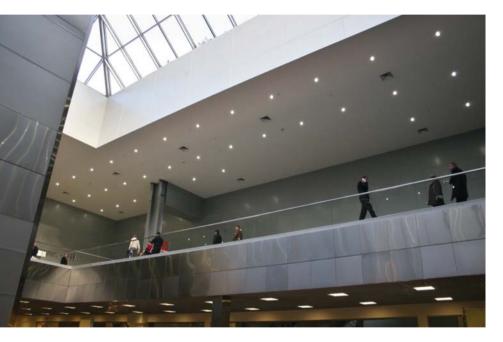
\*DALI dimming requires additional module. Sold separately.

Halers H6

This innovative high power LED downlight is set to revolutionise the way ambient lighting is specified and offers a truly superior alternative to ordinary compact fluorescent luminaire. Unparalleled optical performance coupled with energy savings of up to 40% (compared with traditional CFL variants) and luminaire efficacy figures of 56lm per circuit Watt. UK Building Regs Parts L1 and L2 compliant.

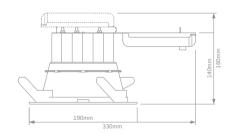
Selectable output allows installer to replace 1 x 26W, 2 x 18W and 2 x 26W conventional downlights with just 1 product.









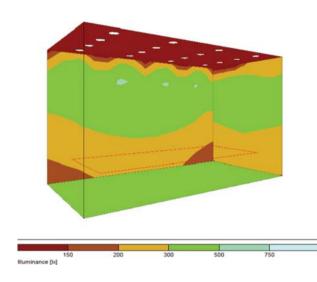


HALERS H6 NW (4000° kelvin) in offices

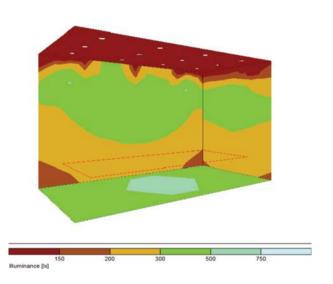
code	description	dimensions
DL/03/WH/F/NW DL/03/EM/WH/F/NW	35W LED to replace compact fluorescent fittings. 4000° kelvin Emergency pack version of the DL/03/WH/F/NW	Ø 190 x <b>h</b> 160mm Ø 190 x <b>h</b> 160mm

### Halers H6 photometry

#### 2 x 26W CFL



#### Halers H6



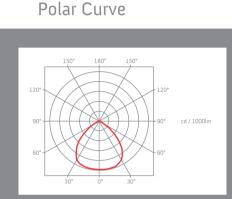
Installation comparison - 6 x 3 x 3m room.

Lux level required - 500lx on workplane

#### Results.

Halers H6 (700mA) - x 12 (420W) Typical 2 x 26W CFL - x 16 (832W) - **Save** 412W

## "How many lights do I need?"

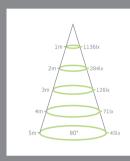


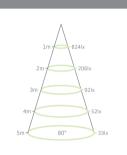




#### 350mA







Spec sheets IES files Eulumdat files BIM content

download at halers.com

Halers Lighting publish the exact light output details of our fittings, which are confirmed by independent 3<sup>rd</sup> party test houses, including the Photonics Cluster (UK), and The Lighting Association (UK). We test the 'Absolute Photometry' (LM79) at room temperature, of the complete fitting including driver. We believe that independent testing is the only solution to provide consumers with absolute confidence in our products. This has been driven by the current trend within the LED market for publishing unverified and misleading results.

#### MASTER LEDSPOT 7W GU10 40°

7W LED to replace 50W Halogen GU10

#### Benefits **Features**

- ° Dimmable down to 10%
- ° Retrofit and compatible with
- ° CRI. 80.

- ° 85% energy saving.
- ° Return on investment within

## **Applications**





MLED7GU1053040

Delivering a warm, halogen-like accent beam, MASTER LEDSPOT GU10 40° is ideal for spot lighting (track, corridors, lift lobbies, display cases and cabinets) in the hospitality industry. It is particularly suited to public areas such as lobbies, corridors, stairwells, where the light is on 24/7. MASTER LEDSPOT GU10 40° delivers huge energy savings and minimises maintenance cost, enabling hospitality owners to achieve a return on their investment within one year. Compatible with most existing fixtures with a GU10 holder and designed as a retrofit replacement alternative for 50W halogen lamps.

save







MASTER LEDSPOT GU10 40° at a private residence

code	description	dimensions
MLED7GU1053040	7W LED to replace 50W Halogen GU10. 3000° kelvin	<b>Ø</b> 50 x <b>h</b> 80.5mm
MLED7GU1053040	7W LED to replace 50W Halogen GU10. 4200° kelvin	<b>Ø</b> 50 x <b>h</b> 80.5mm

#### MASTER LEDSPOT 3W GU10 25°

3W LED to replace 35W Halogen GU10

save 85%

#### Features

## Benefits

° 85% energy saving.

- Lower maintenance cost.
- Retrofit and compatible with most existing fixtures with GU10 holder.
- ° Free of hazardous materials.
- ° CRI. 85.

Delivering a warm, halogen-like accent beam, MASTER LEDSPOT 3W GU10 25° is ideal for spot lighting (track, corridors, lift lobbies, display cases and cabinets) in the hospitality industry. It is particularly suited to public areas such as lobbies, corridors, stainwells, where the light is on 24/7. MASTER LEDSPOT 3W GU10 25° delivers huge energy savings and minimises maintenance cost without any compromise on brightness, enabling hospitality owners to achieve a return on their investment within one year. Compatible with most existing fixtures with a GU10 holder and designed as a retrofit replacement alternative for 35W halogen lamps.



MASTER LEDSPOT 3W GU10 25° at a private residence























MLEDD7GU103025

codedescriptiondimensionsMLED3WGU1030253W LED to replace 35W Halogen GU10. 3000° kelvinØ 50 x h 55.5mm

#### **NOVALLURE 2W E14 B35**

2W LED to replace B35 E14 lamps

#### Features

- ° Eye-catching lens design.
- ° Inviting, sparkling light effect.
- Lower maintenance cost due to 15 times longer lifetime.
- Free of hazardous materials.
- ° Available in clear and frosted.

Delivering incandescent-like sparkling light effects, NOVALLURE 2W E14 B35 candle bulb is ideal for general and decorative lighting in the hospitality industry, as well as in home environments. Mounted in full view in chandeliers, wall sconces or modern luminaires, the clear or frosted glass bulbs fit all existing fixtures with an E14 socket. Drawing upon inputs from chandelier makers and designed to enhance the aesthetic appeal of the chandelier or luminaire, not only when lit but also when not, these lamps come in a classical slender shape with a unique, eye catching lens design. They produce a beautiful sparkling warm light

that delivers huge energy savings and minimises maintenance cost.

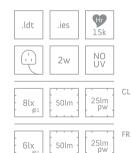
## Benefits \_\_

- ° Sparkling warm light
- ° 80% energy saving.
- ° Classical slender shape and crystal-clear bulb, fitting all existing fixtures with E14 holders

NOVALLURE 2W E14 B35 in a hotel room







code	description	dimensions
LEDB35E14CL3000 LEDB35E14FR3001	* 2W clear LED to replace B35 E14 lamps. 3000° kelvin  ** 2W frosted LED to replace B35 E14 lamps. 3000° kelvin	Ø 35.1 x <b>h</b> 99mm Ø 35.1 x <b>h</b> 99mm

#### Information

Free next day delivery on most items if ordered before 4.00pm (excluding europe and some parts of UK) (£200 minimum order value)

For orders below £200 a £15 handling fee applies (excluding Europe and some parts of UK. Check your local distributor for details)

All products are guaranteed for 12 months from date of purchase, unless otherwise stated. Any modifications made to our products may invalidate the warranty.

All specifications are believed to be valid at time of going to press and are subject to change without notice

Whilst we try to ensure accurate colour representation, please be aware that the photographic/printing process may sometimes alter colours.

Errors and omissions excepted.

Any variations to specifications and full details of conditions of sale can be obtained by contacting us at:

t +44 (0)1604 679700

f +44 (0)1604 679701

e sales@halers.com

w halers.com

©2010 Copyright in this catalogue belongs to Halers Lighting Limited. Material within this catalogue may not be used, sold, licensed, copied or reproduced in whole or in part or in any manner of form or otherwise without the written consent of Halers Lighting Limited. The products shown are protected by various intellectual property rights including Community Registered Design and UK and Community Unregistered Designs.

Any copying , hiring, lending, public performance, diffusion, transmission and/or broadcast of this catalogue or any part thereof is strictly prohibited and may give rise to civil liabilities and criminal prosecution.

## "How many lights do I need?"

**t** +44(0)1604 679700 **f** +44(0)1604 679701 **e** sales@halers.com **w** halers.com

## "How many lights do I need?"

- e sales@halers.com w halers.com

## halers.com

#### Halers Lighting Worldwide



#### Halers Lighting UK Head office









#### Halers Lighting Germany







#### Halers Lighting UAE





#### Halers Lighting New Zealand



Your contact details here.