



**HALERS**  
L I G H T I N G

**HALERS LIGHTING**  
2010



|  |   |   |  |  |
|--|---|---|--|--|
|  | Bathroom zone   | Badbereichsfreijabe tone                                      | Zone salle de bains  | Zona bagno   |
|  | Beam angle  | Abstrahlwinkel  | Angle de faisceau  | Apertura angolare  |
|  | Cut out   | Ausschnittgröße   | Encastrement   | Diametro foro da praticare   |
|  | Dimming   | Dimmbar   | Gradable   | Dimmeraggio  |
|  | Emergency   | Notfall   | Évacuation   | Emergenza  |
|  | Eulumdat files available                                | Eulumdat - Daten verfügbar                                    | Fichier Eulumdat disponible  | File Eulumdat disponibile  |
|  | IES files available                                     | IES - Daten verfügbar   | Fichier IES disponible   | File IES disponibile   |
|  | IP rating   | Schutzgrad  | IP   | Grado di protezione IP   |
|  | Lux level at 1m   | Lux auf 1m  | Lux a 1m   | Livello di Lux 1m  |
|  | Lumens  | Lumens  | Lumens   | Lumens   |
|  | Lumens per watt   | Lumen/Watt  | Lumens par Watt  | Lumen/Watt   |
|  | Straight to mains                                       | 230V Anschluss  | 230V direct  | Alimentazione diretta dalla rete   |
|  | ta. max ambient temperature<br>tc. max case temperature | ta. Höchstumgebungstemperatur<br>tc. Höchstbetriebstemperatur | ta. Température maximale ambiante<br>tc. Température maximale du produit | ta - temperatura ambientale massima<br>tc - temperatura dell'involucro massima |
|  | Life of product in hours                                | Mittlere Lebensdauer  | Durée du produit en heures   | Durata del prodotto in ore   |
|  | Wattage   | Leistung  | Puissance  | Potenza in watt  |
|  | No Ultra Violet   | keine UV-Strahlung  | Sans ultra violet  | Non emette raggi UV  |



|  |   |
|--|---|
| 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<br>tc. Temperatura máxima de la luminaria | ta. maximala omgivande temperaturen<br>tc. maximala fall temperatur |
| Duración del producto en horas   | Produktens livstid i timmar   |
| Vatios   | Watt  |
| No ultravioleta  | Ingen UV-strålning  |

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## The Concept



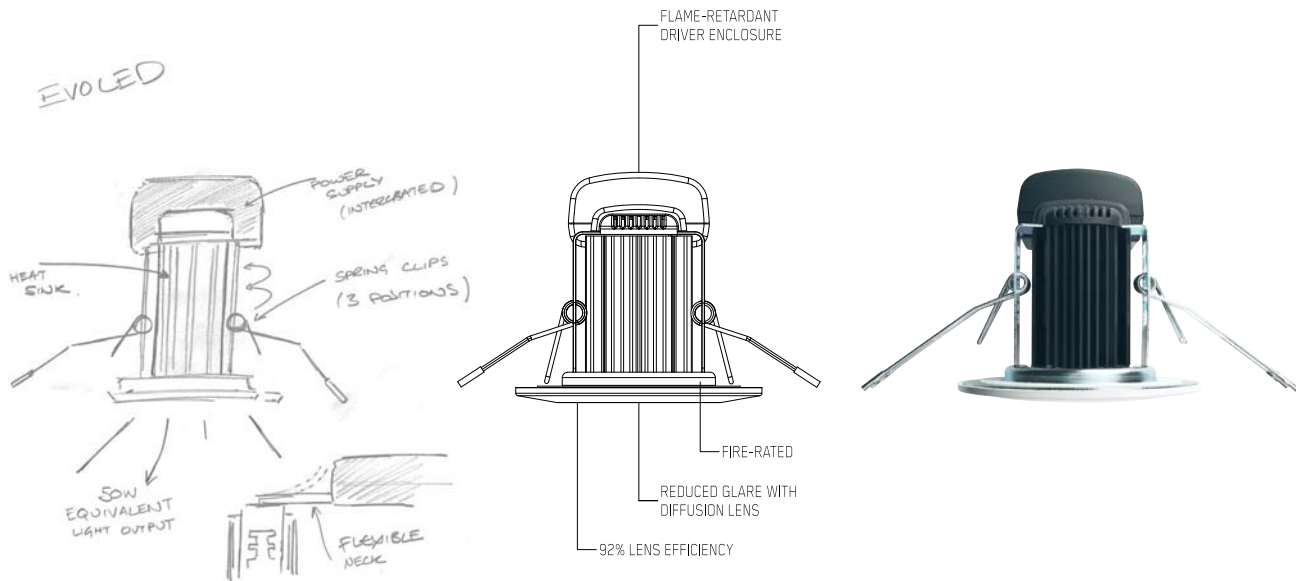
EvoLED™ NW (4000° kelvin)  
at a private residence



## 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 EvoLED™, 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 installation.

\* EvoLED™ will save you up to 90% of your lighting energy costs.



## How

Using the most advanced LED technology, and drawing upon its 10 years of LED experience, Halers Lighting have created the EvoLED™. The EvoLED™ 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

EvoLED™ 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.

## EvoLED™

IP65, fire-rated LED downlight

### Features

- ° Integrated LED driver
- ° Adjustable driver position.
- ° 3 position retaining clips.
- ° Meets building regulations.
- ° Fire-Rated.
- ° IP65 as standard.
- ° Various colours and finishes.
- ° Unique lens design.
- ° 34° beam angle.
- ° Mains dimmable.
- ° Highly accurate colour binning.
- ° Flexible cut-out size.
- ° Flying lead fitted.
- ° Double insulated.
- ° 425 lumen output.
- ° 7.9w power consumption.
- ° Soft start.
- ° CRI. 80.
- ° Fast return on investment

### Benefits

- ° Straight to mains connection.
- ° Flexibility during installation.
- ° For various 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.
- ° Colour match across all LEDs.
- ° Fits a 60-70mm cut-out.
- ° Reduced installation time.
- ° No earthing required.
- ° Brighter than an 50w GU10.
- ° Surpasses energy and efficacy requirements for part L.
- ° 90% energy saving.
- ° Immediate cost saving

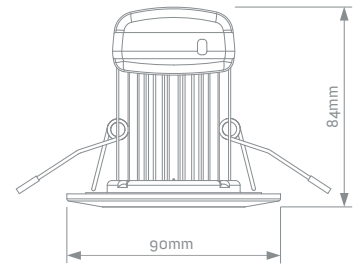
save  
90%

\* EvoLED™ will save you up to 5 lamp replacements per year



EvoLED™

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 an item of the finest quality. High technology, pioneering spirit and the quest for perfection are the basic elements of all Halers Lighting luminaries.



EvoLED™ NW (4000° kelvin) at a private residence



## EvoLED™ cont.

### Product codes & Varieties

\* EvoLED™ will save you up to **252Kg of CO<sup>2</sup>** emissions per fitting per year

| code              | description  | dimensions     | cut-out    |
|-------------------|--|----------------|------------|
| DL/CR/F NW        | Chrome IP65 fire-rated downlight. 34° beam LED in natural white        | Ø 90 x h 84mm  | Ø 60-70mm  |
| DL/SIL/F NW       | Silver IP65 fire-rated downlight. 34° beam LED in natural white        | Ø 90 x h 84mm  | Ø 60-70mm  |
| DL/WH/F NW        | White IP65 fire-rated downlight. 34° beam LED in natural white         | Ø 90 x h 84mm  | Ø 60-70mm  |
| DL/CR/F WW        | Chrome IP65 fire-rated downlight. 34° beam LED in warm white           | Ø 90 x h 84mm  | Ø 60-70mm  |
| DL/SIL/F WW       | Silver IP65 fire-rated downlight. 34° beam LED in warm white           | Ø 90 x h 84mm  | Ø 60-70mm  |
| DL/WH/F WW        | White IP65 fire-rated downlight. 34° beam LED in warm white            | Ø 90 x h 84mm  | Ø 60-70mm  |
| DL/CR/F/NW/DIM    | Chrome IP65 fire-rated downlight. 34° beam LED, natural white, dimming | Ø 90 x h 84mm  | Ø 60-70mm  |
| DL/SIL/F/NW/DIM   | Silver IP65 fire-rated downlight. 34° beam LED, natural white, dimming | Ø 90 x h 84mm  | Ø 60-70mm  |
| DL/WH/F/NW/DIM    | White IP65 fire-rated downlight. 34° beam LED, natural white, dimming  | Ø 90 x h 84mm  | Ø 60-70mm  |
| DL/CR/F/WW/DIM    | Chrome IP65 fire-rated downlight. 34° beam LED, warm white, dimming    | Ø 90 x h 84mm  | Ø 60-70mm  |
| DL/SIL/F/WW/DIM   | Silver IP65 fire-rated downlight. 34° beam LED, warm white, dimming    | Ø 90 x h 84mm  | Ø 60-70mm  |
| DL/WH/F/WW/DIM    | White IP65 fire-rated downlight. 34° beam LED, warm white, dimming     | Ø 90 x h 84mm  | Ø 60-70mm  |
| DL/EMERGENCY PACK | Maintained/Non maintained through hole emergency pack. 3 hour          | Ø 60 x l 500mm | Ø 60mm+    |
| DL/CONVERT        | Hole conversion plate for extended retrofitting                        | Ø 170 x h 27mm | Ø 60-150mm |

NB. WW refers to Warm White (3000° kelvin)  
NW refers to Natural White (4000° kelvin)  
/DIM. Dimmable with leading and trailing edge

DL/WH/F NW - DL/WH/F NW/DIM



DL/CR/F NW - DL/CR/F NW/DIM



DL/SIL/F NW - DL/SIL/F NW/DIM



DL/EMERGENCY PACK



DL/CONVERT

The DL/EMERGENCY PACK is designed to be used in conjunction with the EvoLED™. When in emergency mode, the pack will power the EvoLED™ at 150mA, providing approximately 1/3 of the light output when compared to normal running of the EvoLED™.

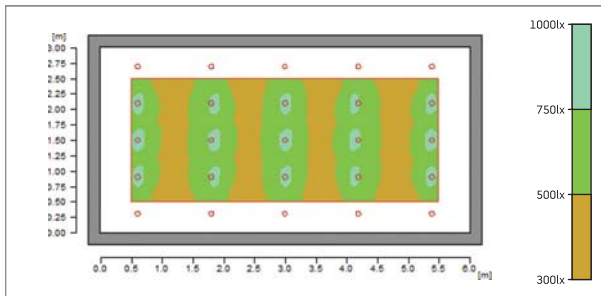
- ° Can be used in conjunction with other light fittings using between 1 & 3 high power LEDs
- ° Will provide a minimum of 3 hours of emergency lighting.
- ° Has a Green indicator light indicates charging of the batteries.

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

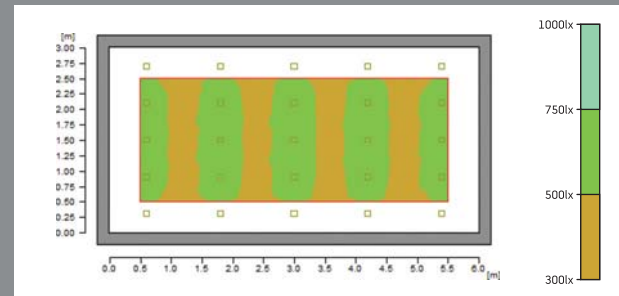
EvoLED™ sold separately.

## EvoLED™ photometry

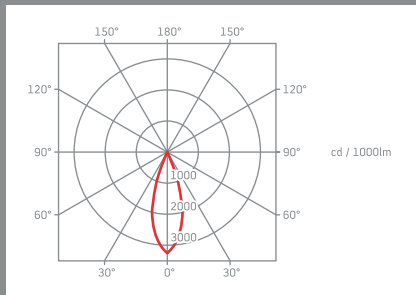
Relux output. 50w Halogen



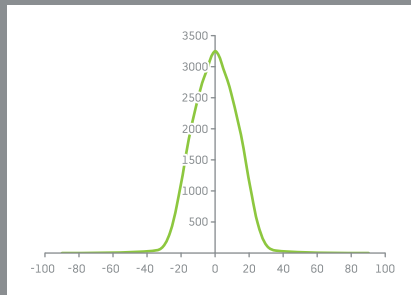
Relux output. EvoLED™



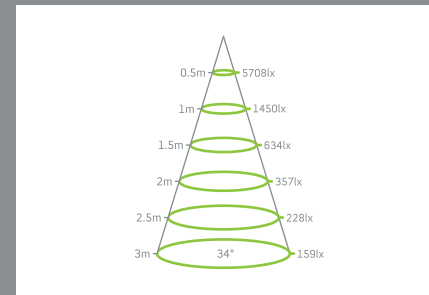
## Polar Curve



## Candelas



## Cone



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.

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](http://halers.com)

## 50w Halogen / EvoLED™ comparison



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



EvoLED™ WW (3000° kelvin)  
at a private residence



EvoLED™ NW (4000° kelvin)  
at a private residence



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



EvoLED™ NW (4000° kelvin) at a private residence

These genuine photographs show the real life result of replacing 50w lamps with Halers Lighting's EvoLED™ downlight.

## Information

Free next day delivery on most items if ordered before 4.00pm (excluding Europe and some parts of UK) (£150 minimum order value)

For orders below £150 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 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:

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