



# LEDfit

A simple, reliable and efficient LED floodlight

THORN

# Low lifetime-cost LED floodlight

Reduce energy consumption,  
reduce maintenance.



- LEDFit is a simple, reliable and efficient alternative to general purpose HID floodlights.
- Efficient LEDs (100 Lm/W) combined with a unique, true asymmetric optic can reduce energy consumption by more than 65% compared to a conventional solution.
- Ultra lightweight, compact design for ease of installation and minimal aesthetic impact.
- IP66 and IK07 rated for durability.



### **Building surrounds**

Lighting for building surrounds is important for safety as well as providing all-important presence. With efficient LEDs, LEDFit offers an ideal solution and can reduce overall costs by more than 65% when replacing conventional installations.

### **Retail façade lighting**

For small single shops or shops inside a shopping centre the most important factors are the ability to correctly and attractively illuminate the façade while ensuring the luminaire is as hidden as possible. LEDFit's very slim design combined with truly asymmetric optics and a reversible stirrup ensure good flexibility with both downlighting and uplighting possibilities.

### **Low area lighting**

Car parks and other areas where low mounting height poles are installed require slim but powerful luminaires which place light only where needed. With unique, high performance optics designed in conjunction with Tridonic for efficiency and comfort, LEDFit offers excellent light control (0cd at 90°) with no need to tilt and no compromise on product size or other performance variables.



**NEW!**

**Market leading size/weight/output ratio for high performance true asymmetric luminaire with low aesthetic impact**

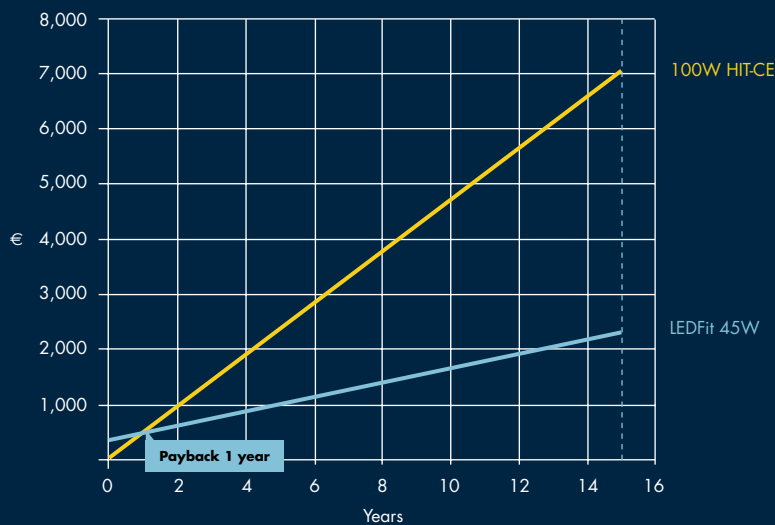


# Energy saving opportunities

LEDFit's efficient LEDs combined with a long 50 000-hour lifetime offers substantial lifetime savings and a payback period of just one year.

## Reduce energy consumption by more than 65% with LEDFit.

Energy Efficiency – Course of overall costs of solution over lifetime:



### Scheme details:

Building with Surrounds: 300m<sup>2</sup>  
 Energy costs: 0.12 €/kWh  
 Illuminance: 50lx  
 Calculation period: 15 years  
 Changing lamps every 2 years for the traditional/non-LED solution  
 LED: Cleaning the luminaires every 3 years  
 Operating hours: 4380 h/a  
 All calculations are based on an annual increase of energy and operating costs of 5%.

## Investment costs vs. running costs of solution (absolute)

100W HIT-CE

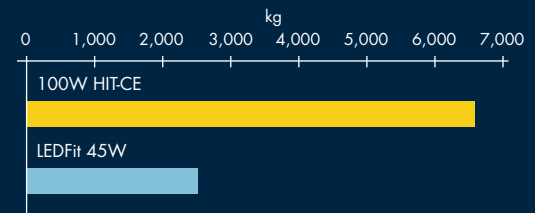


LEDFit 45W



■ total investment cost  
 ■ total running cost over lifetime  
 ■ saving

## Total CO<sub>2</sub> emissions over a lifetime



## General lighting requirements for areas at outdoor work places (EN 12464-2)

Type of Area, task or activity	E <sub>m</sub> lx	U <sub>o</sub> –	R <sub>gl</sub> –	R <sub>a</sub> –
Traffic areas for slowly moving vehicles (max. 10 km/h), e.g. bicycles, trucks and excavators	10	0.40	50	20
Regular vehicle traffic (max. 40 km/h)	20	0.40	45	20
Pedestrian passages, vehicle turning, loading and unloading points	50	0.40	50	20

Em - Illuminance  
 Uo - Uniformity  
 Rgl - Glare Rating  
 Ra - Colour Rendering

# LEDFit optics

Unique, high performance optics designed for efficiency and comfort.

## True asymmetric optic

True asymmetric optic provides even light distribution and excellent light control (0cd at 90°) with no need to tilt. Benefits include no glare or waste light, reduced light pollution, as well as dark spot reduction.

## High lumen output

With high lumen output LEDFit reduces the number of luminaires required to fulfil lighting requirements and in turn reduces lifetime costs.

## Designed in conjunction with Tridonic

Providing a quality of light unlike any other technology on the market, LEDFit was designed in conjunction with Tridonic, part of the Zumtobel Group and a global pioneer of lighting components. By integrating the AC module into the body of the luminaire, LEDFit offers a slim and lightweight design for ease of installation which is unique to the market.



# Installation

LEDfit features a super lightweight design and is pre-wired for effortless installation.

## Slim, compact and lightweight

Market leading size/weight/output ratio for high performance with low aesthetic impact. LEDfit's lean lightweight design also makes it easy to carry, install and integrate onto existing structures.



45W - 320 x 181 x 62 - 1.7kg



90W - 320 x 368 x 62 - 3.0kg

## Pre-wired

Quick and easy installation with no wiring.



## Mounting options

Three mounting options to cover all low area lighting applications.



Wall mounted - area



Surface mounted - façade



Mast

# Product specification

A simple, reliable and efficient LED floodlight.

## Application

- Low area lighting
- Building surrounds
- Façade lighting

## Standards

IK07 IP66  $T_{a-20}$   
+25



## Light source information

Lifetime >50 000 Hours @L70B50  
Ta 25°C  
4500lm (45W) and 9000lm (90W)  
100lm/W  
Colour temperature 4000K  
CRI 80

## Materials/Finish

Body: aluminium, powder coated  
RAL 9006 (light grey)  
Stirrup: steel, powder coated  
RAL 9006 (light grey)  
Visor: polycarbonate, powder coated  
RAL 9006 (light grey)

## Installation/Mounting

Pre-wired. No need to open the product.  
Luminaire is adjustable on a stirrup fixed  
by a single bolt through a central hole,  
plus two outer oblong holes.

## Specification

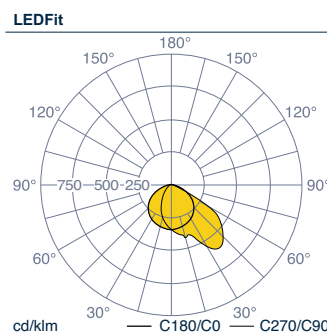
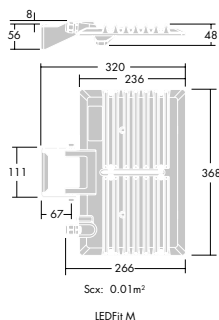
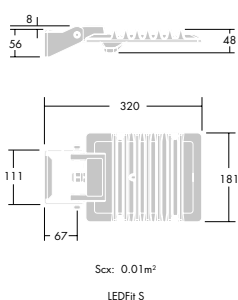
To specify state:  
A simple, reliable and efficient alternative  
to general purpose HID floodlights  
with true asymmetric optic to cover  
the requirements of low area lighting,  
building surroundings and façade  
lighting. Ultra lightweight, compact  
design for ease of installation and  
minimal aesthetic impact available in  
2 sizes - Small and Medium - with lumen  
packages of 4500lm and 9000lm and  
high mechanical resistance (IP66, IK07).  
The reversible mounting stirrup allows  
different mounting positions to cover all  
the application needs.  
As Thorn LEDFit.

## Ordering guide

Description	Wt (kg)	SAP Code
LEDfit S 45W A/S CL1 L740	1.7	96628332
LEDfit M 90W A/S CL1 L740	3.0	96628333

S - Small

M - Medium



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## 5 Year Warranty

As a globally leading luminaire manufacturer, Thorn Lighting provides a five-year warranty for its complete product range within all European Countries.

[www.thornlighting.com/warranty](http://www.thornlighting.com/warranty)

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