



# HiPak

Efficient LED high bay luminaire

THORN

# Saving you time, energy and money

Effortlessly upgrade with new HiPak.

- HiPak offers a simple, direct and cost-effective one-for-one replacement of traditional HID high bay luminaires.
- Efficient LEDs (up to 113 lm/W) combined with precise lens technology can reduce waste light and in turn energy consumption by up to 50%.
- Classic circular design with innovative lens technology providing the right amount of light exactly where it is needed





### **Retail outlets**

With an optional prismatic refractor, HiPak offers a softer lit appearance and attractive aesthetic to make it ideal for refurbishing large retail stores. A choice of four light outputs meet a wide range of ceiling heights and ensure the right amount of light is always provided.

### **Exhibition Halls**

Exhibition halls have high ceiling heights and demand the right amount of lighting on the floor. HiPak is fully equipped to meet these needs with a choice of lumen outputs and the provision of homogeneous lighting. HiPak's optional prismatic refractor ensures the luminaire looks as good as the lighting it provides.

### **Logistics centres**

Transportation areas and the areas where people are working both demand good quality lighting. Taking into consideration high ceiling heights and the need for energy savings across long operating hours, HiPak offers a choice of four light outputs, efficient LEDs and a choice of optics to place light where needed.

### **Warehouses**

HiPak provides good horizontal illumination on surfaces such as forklift controls and bar code scanners while offering good coverage on vertical surfaces, particularly when searching through products amongst storage racks. With a choice of four light outputs to meet the lighting needs for a wide range of ceiling heights as well as easy installation and low maintenance, HiPak is ideal for warehouses of all sizes.

### **NEW!**

#### **Prismatic refractor:**

- Softer lit appearance
- Attractive aesthetic
- Ideal for refurbishing large retail stores



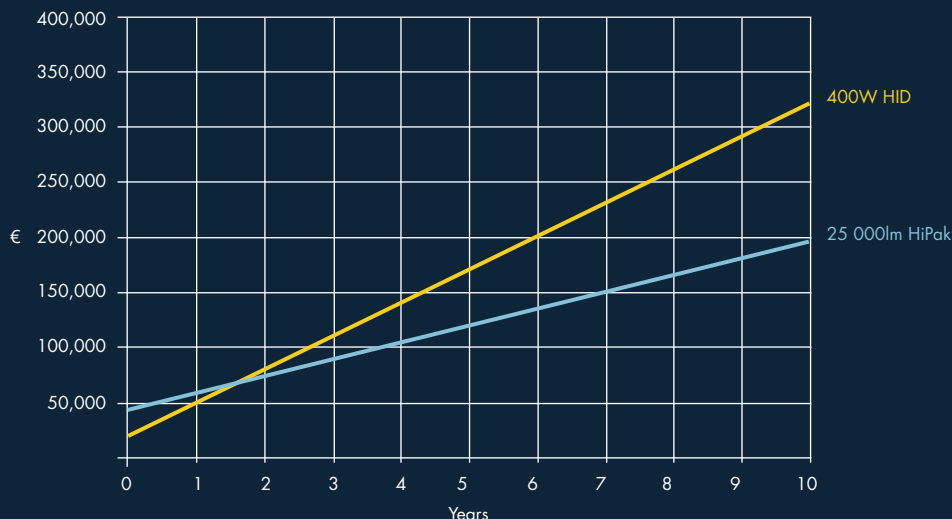
# Energy saving opportunities

Reduce energy consumption by up to 50% with HiPak.

Replacing traditional HID high bay luminaires with HiPak can reduce energy consumption by up to 50% to reduce both energy bills and carbon emissions.

## Reduce energy costs by 50% with HiPak.

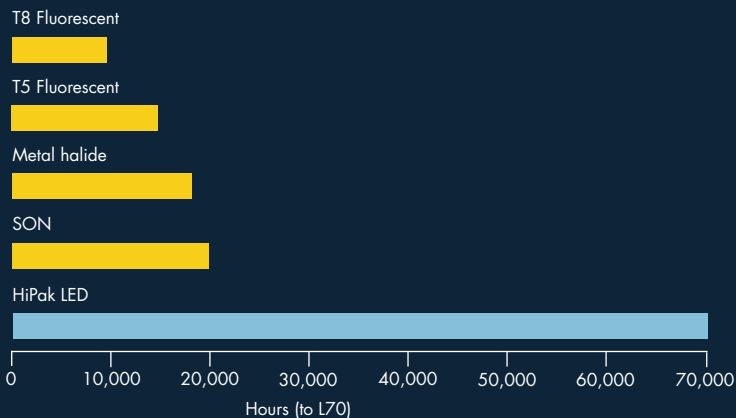
Energy Efficiency – Course of overall costs of solution over lifetime:



### Scheme details:

100m x 100m room, 9m mounting height, 50/30/20 reflectances designed to meet 200 lux. Old scheme used 110 400W HID luminaires, replaced by 110 25,000lm HiPak.

## HiPak lifetime vs other technologies



## Energy savings by lumen output.

10 000lm (99W), 15 000 (142W)

- 250W HID replacement:



>40% energy saving

20 000lm (192W), 25 000lm (242W)

- 400W HID replacement:



>50% energy saving

## Virtually maintenance-free LED lifetime

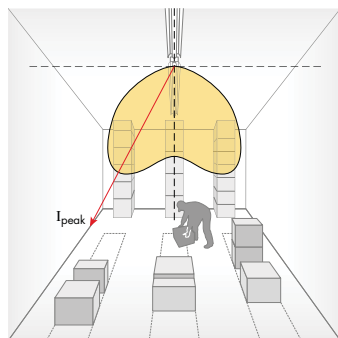
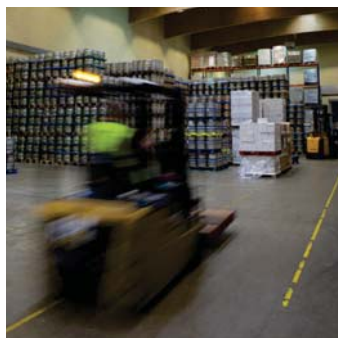
With a long 70 000-hour lifetime, HiPak eliminates the need for costly and disruptive lamp replacements. The cooling fin housing is carefully designed to allow air through the luminaire. This prevents the components from overheating and ensures optimum performance in harsh industrial environments from -30°C up to +50°C.

# HiPak optics

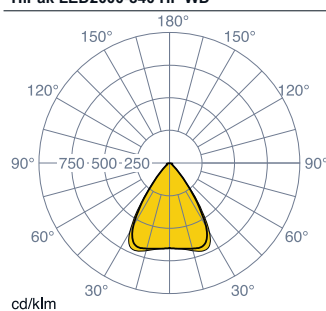
HiPak places light where needed with a choice of two optics.

## Wide optic

HiPak's wide beam is suited to larger open areas where light from more than one direction is important. It is also ideal for areas where movement and stacking of boxes occurs without fixed shelving, as well as areas where machinery needs lighting. This includes open retail and industrial production spaces, logistical centres and warehouses.

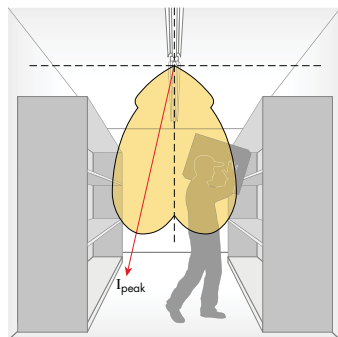


HiPak LED2000-840 HF WD

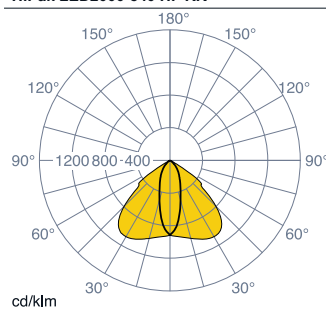


## Rack optic

HiPak's narrow beam is suited to storage spaces, warehouses or retail environments with lower ceilings and narrow spaces between the racks. These areas include narrow raked rooms where light is needed at the bottom shelf, picking areas in logistics centres and storage at normal and medium ceiling heights (4m to 12m).



HiPak LED2000-840 HF RK



# Installation

HiPak is easy to install to save time, energy and money.

## Single point suspension

Enables simple point for point replacement of traditional HID high bay luminaires without the cost and inconvenience of additional installation points.

## Pre-installed plug and play connectors

Allows rapid installation with no internal wiring.



Mounting hook supplied with Wide optic luminaire

## Mounting grid gives a flexible range of mounting options

### Optional mounting accessories



Stirrup for wall/ceiling mounting\*



Rod for pendant mounting\*



Wire suspension  
1m/2m/5m



Chain suspension (chain to be ordered separately)



Catenary suspension

\*Stirrup and Rod accessories **MUST** be ordered with the **RACK** optic version - to ensure that the luminaire does not rotate once installed.



# Product specification

A direct one-for-one replacement of traditional HID high bay luminaires. Saving you time, energy and money.

## Application

- Warehouses
- Logistics centres
- Exhibition halls
- Retail

## Standards

IK08 IP65  $T_a$ -30  
+50  

## Light source information

Life time 70 000 hours @ L70  $T_a$  25°C  
10 000lm (99W) / 15 000lm (142W)  
20 000lm (192W) / 25 000lm (242W)  
Up to 113lm/W  
Colour temperature 4000K  
CRI 80  
McAdams <4

## Materials/Finish

Housing: die cast aluminium (RAL 9006)  
Lens: polycarbonate  
Luminaire is silicon free

## Installation/Mounting

All luminaires are suitable for single point suspension and Wide optic version supplied with a mounting hook as standard (chain to be ordered separately: 96502605). Other mounting accessories to be ordered separately: stirrup for wall mounting (96642765 / 96642914), rod suspension for pendant mounting (96642766), wire suspension (96502609) and catenary suspension (96502610). All luminaires are supplied pre-wired with a quick connector plug

## Specification

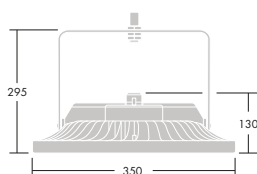
To specify state:  
An IP65 single point suspension LED high bay luminaire with plug and play connection for rapid installation. Available in 10 000lm, 15 000lm, 20 000lm and 25 000lm (L70 70 000hrs), with a choice of rack or wide beam optic. Fixed output (HF) and DALI available as standard. As Thorn HiPak.

## Ordering guide

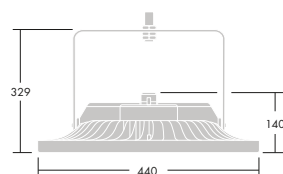
Description	Wt (kg)	SAP Code
HIPAK LED10000-840 HF WD	6.5	96628171
HIPAK LED10000-840 HFI-X WD	6.5	96628172
HIPAK LED15000-840 HF WD	6.5	96642741
HIPAK LED15000-840 HFI-X WD	6.5	96642742
HIPAK LED20000-840 HF WD	8.0	96642749
HIPAK LED20000-840 HFI-X WD	8.0	96642750
HIPAK LED25000-840 HF WD	8.0	96642757
HIPAK LED25000-840 HFI-X WD	8.0	96642758
HIPAK LED15000-840 HF RK	6.5	96642745
HIPAK LED15000-840 HFI-X RK	6.5	96642746
HIPAK LED20000-840 HF RK	8.0	96642753
HIPAK LED20000-840 HFI-X RK	8.0	96642754
HIPAK LED25000-840 HF RK	8.0	96642761
HIPAK LED25000-840 HFI-X RK	8.0	96642762

Accessories		SAP Code
HIPAK KIT COVER PR 100/150W (6 PCS)	Prismatic refractor accessory for 100W/150W luminaires	96665382
HIPAK KIT COVER PR 200/250W (6 PCS)	Prismatic refractor accessory for 200W/250W luminaires	96665383
HIPAK ROD 1,0M + CEILING ROSE (6pcs.)	Fixed mounting accessory for rack optic	96642766
HIPAK STIRRUP 150W MCE/MWA (6pcs.)	Wall/ceiling mount accessory for 100/150W luminaires	96642765
HIPAK STIRRUP 200/250W MCE/MWA (6pcs.)	Wall/ceiling mount accessory for 200/250W luminaires	96642914
HIPAK CONNECTOR 3M + FEM PLUG (10 PCS)	3m wire with connector - optional installation accessory	96628291

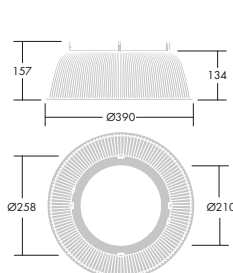
HF - High Frequency  
HFI-X - DALI  
WD - Wide optic  
RK - Rack optic



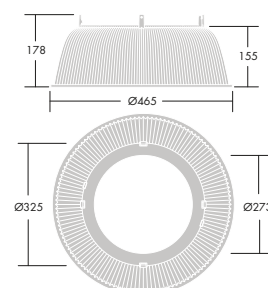
10 000 - 15 000lm



20 000 - 25 000lm



10 000 - 15 000lm - Prismatic refractor



20 000 - 25 000lm - Prismatic refractor

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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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