

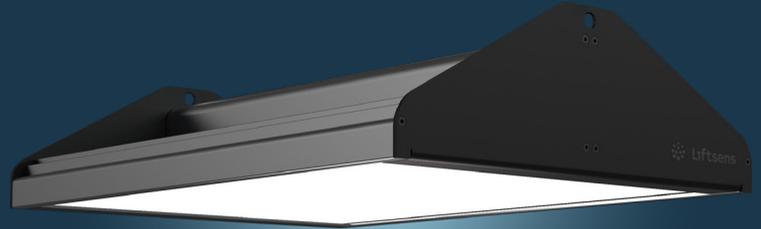


HIGHBAY

Helix 1

The Helix 1 LED light fixture has been uniquely developed and assembled in the Netherlands, where superior quality and performance is paramount. Liftsens stays ahead of the game by specially developing its own digital intelligent LED drivers, LED panels and covers/casing. With everything in-house, Liftsens has the ability to customize products to the exact needs of the client.

The Helix 1 ingeniously uses a processor (micro controller) controlled by a LED driver. This increases the reliability and lifespan by the monitoring of parameters and the reduction of components.



Special Features



- High efficiency**
 152 lumens per watt (power consumption from the mains) means less power converted into lost heat.
- High-quality components**
 Contains the latest generation of LEDs (LumiLeds) and other high-quality electronic components.
- Preservation of output**
 Extreme long preservation of luminous flux/output, at $<+25^{\circ}\text{C}$ ambient temperature means the luminous flux does not decrease by more than 5% after 100,000 hours (11 years 24/7).
- Thermal management**
 Thermal management to withstand ambient temperatures up to $+45^{\circ}\text{C}$ and housing temperature max $+75^{\circ}\text{C}$.
- Energy consumption**
 Suitable for new buildings or individual replacement of: HPL 400 W or HPI 400 W, which reduces energy consumption by at least 65%.
- No Maintenance**
 No maintenance required, under normal circumstances.
- Dustproof**

+ Benefits

- Maximizes saving on energy and maintenance costs.
- Operate (dimming) and read out by means of wireless communication or DALI, for even more energy saving (optional extra feature, not standard).
- Reduction in installation costs: lightweight and compact covers are easy to install.
- The ability to customize the product to the clients wishes and requirements.

✓ Application

- Factories, warehouses.
- Workshop, machine/workplace, inspection/control area.
- Retail, showrooms (cars).



Technical specifications

Type	Highbay
Application	Warehouses, Factories, Showrooms, Retail
Article	100.000201
Product name	Helix 1
Light source	304 LEDs, type: Lumileds (Certificate IESNA LM-80)
Luminous flux	18.000 lumen
Angle luminous flux	120 degrees
Efficacy	147 lm/W
Color temperature	5700K (Other colors optional)
Color rendering index	Ra >80
Lifespan leds (Ambient temperature <+ 25 ° C)	After 100.000 hours > 90% of the original luminous flux (IESNA LM-80 Test Report)
Lifetime leds L70B50	>100.000 hour (IESNA LM-80 Test Report)
LED-driver	Integrated, Liftsens digital intelligent
Lifetime LED-Driver	>100.000 hour (calculated)
Dimming	Not default (Liftsens LSL or DALI optional)
Motion detector	Optional, Liftsens LSL (Art. 100.010101)
Optics	None
Warranty	8 years
Repairable	Yes (Liftsens refurbish service)
Dimensions LxWxH	400mm x 294mm x 82,5mm
Nett weight	4 Kg
Material housing	Aluminum
Material lens	Polycarbonate 2mm
Colour	Anodized aluminium (body) with gray powdercoating (side plates)

Electrical

Mains voltage	230 VAC +/-10% - 50Hz
Power	Max. 125 Watt (230VAC) - No large inrush current peak
Mains connection	200mm 3-core cable with Adels AC166 male
Powerfactor - THD	>0,95 - <15%

Application conditions

Ambient temperature range	-20 °C+45 °C
Working humidity	< 80%, non-condensing
Heating housing	Max. +75°C (Active thermal protection)
Application	Indoors
IP-rating	IP60
Standards	CE-EMC-ROHS