



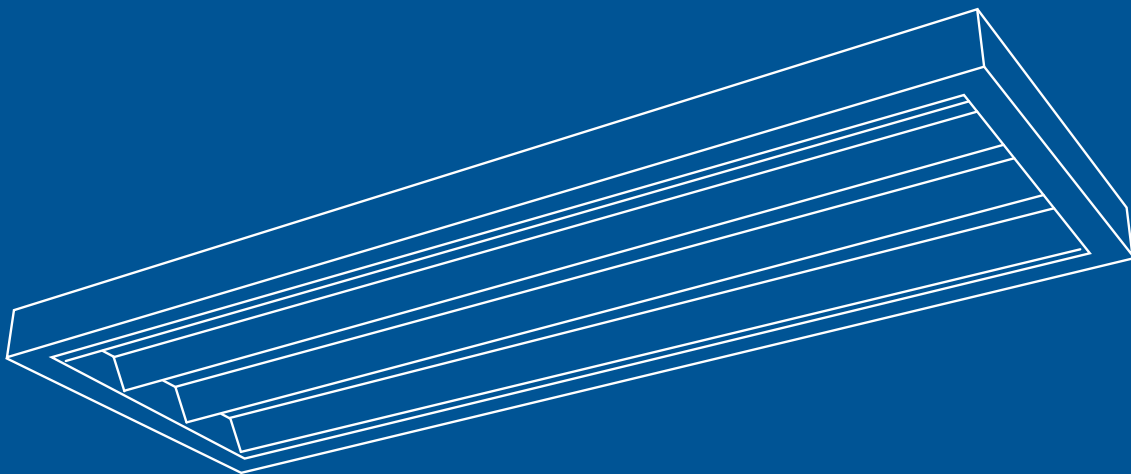
**KANDEM**  
Leuchten GmbH

Ein Unternehmen der DR. FISCHER Gruppe

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## **HFL LED Luminaires Series.**

Visible premium quality. Perceptible energy efficiency.



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Our luminaires can be developed according to customer requirements.

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## Facts and Figures. HFL LED.



HFL 100 LED



HFL 200 LED

dust and humidity as well as full functionality in industrial surroundings with high temperatures.

At the same time work surfaces must be optimally illuminated without endangering the work conditions by too much or too little light. Deep- and deep-wide radiating HFL 100 LED and HFL 200 LED with a very high light efficiency up to 138 lm/W provide for optimal light quality and a better working atmosphere.

The industrial LED lighting of KANDEM is functional, reliable, highly efficient and long-lasting. Extremely long lifetime up to 100.000 hours, low energy consumption, dimmability, no flicker and instant-on performance stand for the high quality level of the HFL LED lights.

The KANDEM HFL LED series is an optimal and highly efficient solution for even the most demanding requirements in industrial lighting.

The innovative development of the LED technology has fundamentally changed the lighting in the industrial sector. Advanced LED solutions fulfil the highest demands for the industrial lighting and even exceed them. The use of modern LED developments offers several important advantages: Reduction in energy costs and maintenance, protection of the environment and concurrently creating safe and comfortable office lighting for the employees. The high-quality KANDEM HFL LED luminaires have a number of special characteristics with regards to the lighting technology used. They can be used successfully in the demanding environment of production halls and warehouses. Temperature extremes, high humidity or dust in industrial rooms require robust solutions. KANDEM offers for the HFL LED luminaires a high electrical protection class IP65 against

- Two different construction heights
- Reflector of highly polished anodized pure aluminium Miro 4
- Deep- and deep-wide radiation
- Very high light efficiency up to 138 lm/W
- Luminaire body of high-quality steel metal, powder coated in white
- Optional cover: hardened safety glass or detergent resistant plastic
- For mounting heights of 4 m or more
- Pendant mounting with suspensions, chains or mounting rails

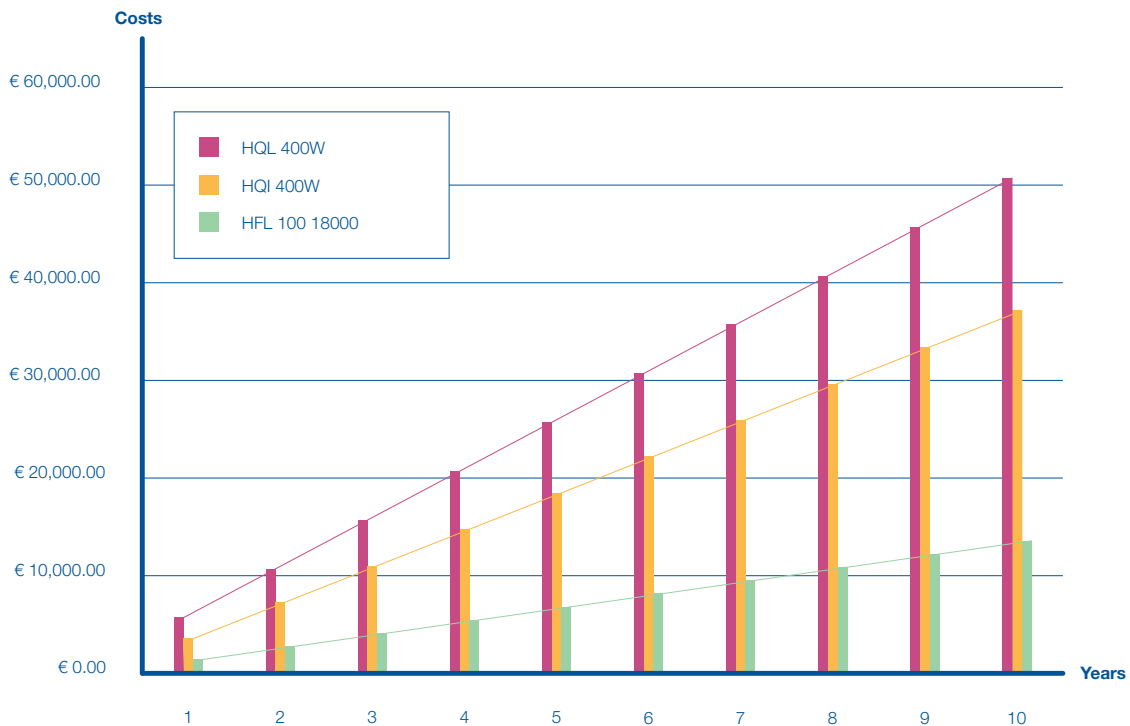
### HFL 100

Type	Lamp	Luminous Flux/ Light color	Length (mm)	Width (mm)	Height (mm)	a (mm)	b (mm)	Weight (kg)	EEC	Article no.
HFL 100 LED N 13200/840 IP65 deep radiating	LED	10146lm/4000°K	1200	300	65	1090	250	8,0	A++	137.0100.7.0000.2
HFL 100 LED N 18000/840 IP65 deep radiating	LED	15219lm/4000°K	1200	425	65	1090	350	11,3	A++	137.0100.7.0001.2
HFL 100 LED W 13200/840 IP65 deep- and deep-wide radiating	LED	12372lm/4000°K	1200	425	65	1090	350	11,3	A++	137.0100.7.0002.2
HFL 100 LED W 18000/840 IP65 deep- and deep-wide radiating	LED	16646lm/4000°K	1200	425	65	1090	350	11,3	A++	137.0100.7.0003.2

### HFL 200

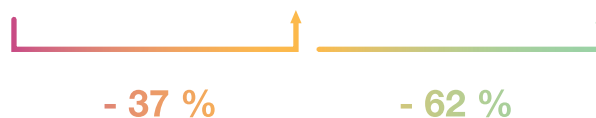
Type	Lamp	Luminous Flux/ Light color	Length (mm)	Width (mm)	Height (mm)	a (mm)	b (mm)	Weight (kg)	EEC	Article no.
HFL 200 LED N 17600/840 IP65 deep radiating	LED	13528lm/4000°K	1200	300	40	1090	250	5,9	A++	137.0200.7.0000.2
HFL 200 LED N 17600/850 IP65 deep radiating	LED	13528lm/5000°K	1200	300	40	1090	250	5,9	A++	137.0200.7.0001.2
HFL 200 LED W 17600/840 IP65 deep- and deep-wide radiating	LED	16496lm/4000°K	1200	300	40	1090	250	5,9	A++	137.0200.7.0002.2
HFL 200 LED W 17600/850 IP65 deep- and deep-wide radiating	LED	16496lm/5000°K	1200	300	40	1090	250	5,9	A++	137.0200.7.0003.2

## Switch and save. Energy cost comparison over 10 years.



## Optimization of an industrial hall lighting through one-to-one exchange of lighting fixtures.

Optimization option of an industrial hall lighting with 2,000 operating hours per year	HQL 400W KVG	HQI 400W KVG	HFL 100 18000lm LED Modules
Number of luminaires	28 pcs.	20 pcs.	28 pcs.
Connected load	12.712 kW	9.240 kW	3.500 kW
CO <sup>2</sup> consumption per year	17.35 kg	12.60 kg	4.77 kg
Savings in percent	-	37 %	62 %
Energy consumption per year	25,424 kW/h	18,480 kW/h	7 kW/h
Energy costs per year (0.20 kW/h)	<b>€ 5,085</b>	<b>€ 3,696</b>	<b>€ 1,400</b>





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**KANDEM.** Your partner for individual lighting solutions  
for over 125 years.

**KANDEM Leuchten GmbH**

Nikolaus-Otto-Straße 3-5  
65582 Diez/Lahn, Germany

**T:** +49 (0) 6432 / 91 31 - 0

**F:** +49 (0) 6432 / 91 31 62

**M:** [info@kandem.de](mailto:info@kandem.de)

**W:** [www.kandem.de](http://www.kandem.de)