



siteco

Highbay 31

The universal talent of hall lighting.
Reliable and efficient with intelligent control.

Efficiency and reliability revamped.

Sustainability made easy: Save up to 55 % on energy.

Simplest installation, highest reliability and energy saving at the same time. Whether 1:1 refurbishment of your old system or new installation – SITECO Highbay 31 brings your hall lighting to a new level.

If not now, when?

Experience the new Highbay 31.

Save up to
55 % of
energy and
CO₂.

- **Direct replacement of conventional solutions** with 250 W and 400 W HIE- / HIT- or HSE- / HST-lamps
- **Refurbishment without new lighting design** with up to 55 % energy savings plus eliminated lamp changes

Optimum amount of light in every application through two sizes and three lumen packages

Long service life (50,000 h L85) and use at increased ambient temperatures of up to 45°C thanks to excellent thermal management of the LEDs and drivers

Excellent energy efficiency of up to 150 lm / W

Efficient light control and good visual comfort in narrow and wide beam versions thanks to lens optics made of robust, UV-stabilised PC

Aluminium and PMMA reflectors available as accessories to optimise glare control

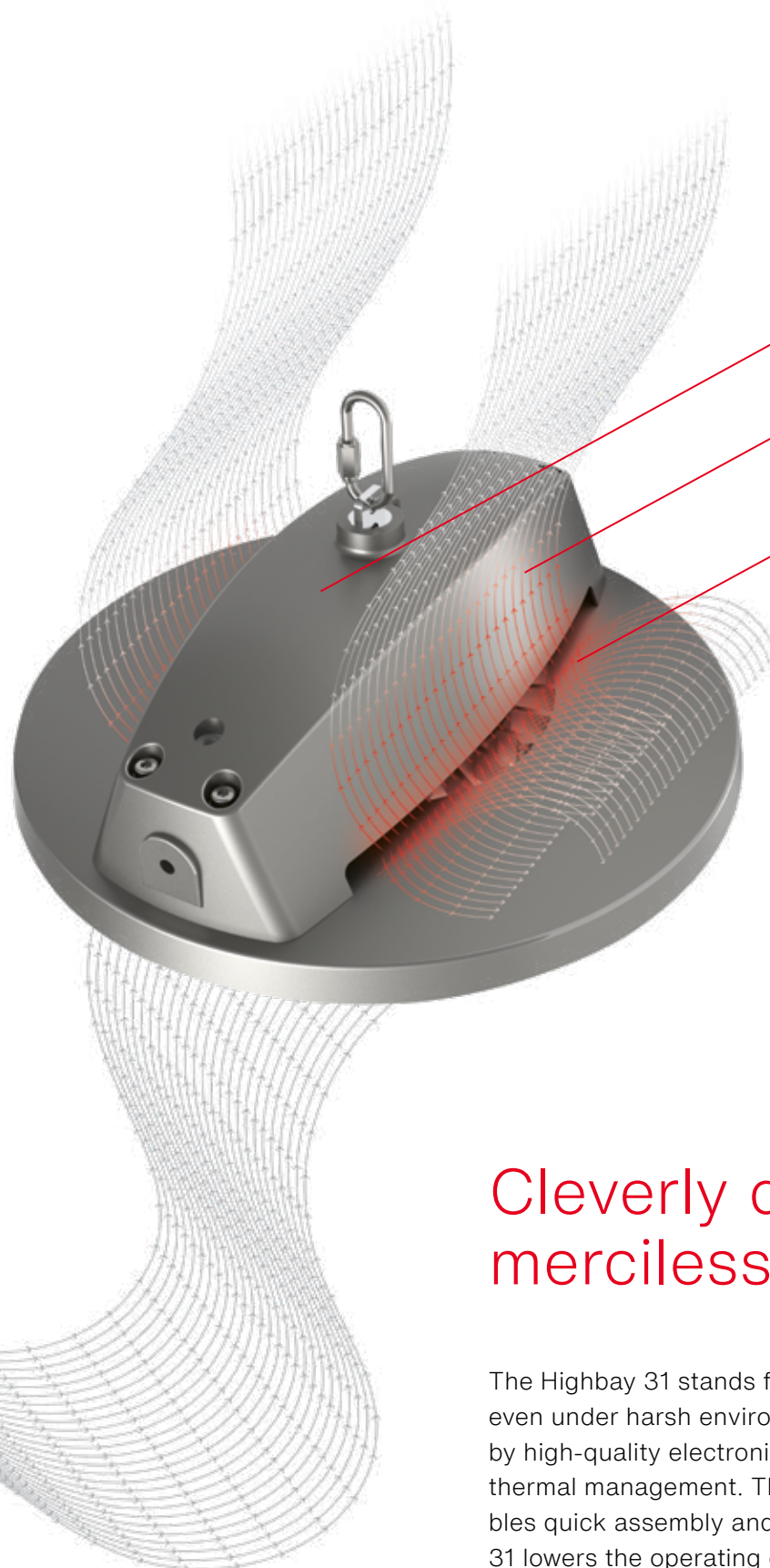
Suitable for use in the food industry (IFS)

Easy one-point mounting

Low dirt accumulation and easy cleaning due to smooth, bevelled top of housing

Suitable for use under harsh environmental conditions through robust aluminium housing with impact resistance (IK 08) and high protection class (IP 65)





● Ideal heat dissipation due to optimised chimney effect

● Thermal separation of ballast and LED module

● Smooth, bevelled surfaces on the top of the luminaire prevent excessive build-up of dirt, which can lead to overheating in conventional designs. This also means that any cleaning is done in a flash.

Thanks to the clever design, all electronic components are perfectly cooled and there is no heat build-up – ideal conditions for a long luminaire life.

Cleverly designed, mercilessly tested.

The Highbay 31 stands for durability and long-term reliability even under harsh environmental conditions. This is ensured by high-quality electronic components and sophisticated thermal management. The optimised housing design enables quick assembly and reduces dirt deposits. The Highbay 31 lowers the operating costs and ensures low Total Cost of Ownership (TCO) over the entire life cycle.

It has never been more worthwhile.

Lighting systems with discharge lamps are highly inefficient compared to current technology. The good news is that many refurbishments are now subsidized by local governments and you can easily upgrade to a new SITECO lighting system. Our experience shows that payback periods of far less than three years for renovations with SITECO products are the rule.

The new standard for lighting workplaces (EN 12464-1) requires higher illuminance levels – no problem with the Highbay 31. More light than before makes sense where accuracy, higher productivity or concentration are of great importance or the workplaces have little daylight.

Highbay 31 TCO comparison calculation (Total Cost of Ownership)

	Old installation	New installation
Light type	HQI x 400 W	Highbay 31, 28.000 lm
Number of luminaires	170	170
Energy consumption		
Energy consumption per year kWh	338,130	151,470
Energy consumption over the life of the installation kWh	3,719,430	1,666,170
Total overview TCO (over 11 years)		
Investment including installation € (lights & installation)	4,250	74,800
Energy costs over system lifetime kWh	619,005	277,292
Saving in energy costs		55 %
Maintenance costs over the life of the installation €	34,034	1,700
Savings in maintenance costs		95 %
Total cost of ownership TCO		
Total costs over system life €		353,792
Total cost savings		46 %
Payback period years		2,07
CO ₂ -savings over installation life t		1,027

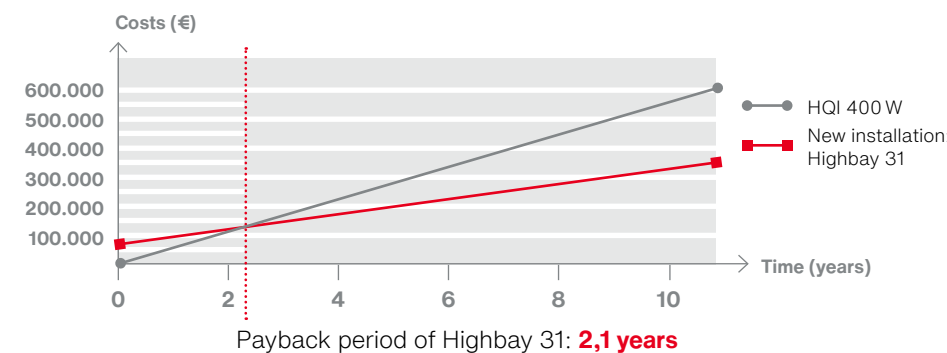
55% Saving corresponds to **1,027 t CO₂** over runtime

-55% Energy

-95% Maintenance

-46% Total Costs

Lighting system: production hall (L 100 x W 50 x H 8 m, according to EN 12464-1 Em 500 lx); Assumptions: Annual operating hours 4,500 h, energy costs € 0.17 / kWh; Maintenance costs: luminaire cleaning € 2.50 per luminaire, lamp replacement € 31.70 per luminaire



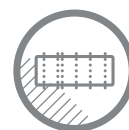
2,1
years
Payback period

Payback period of Highbay 31: **2,1 years**

Highbay 31 Specifications



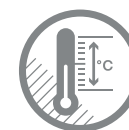
Reliable operation through optimum protection
IP65 / IK08



Colour temperature
4.000 K



CRI
> 80



Ambient temperature
-35° C ... +45° C





Lifetime
L85 B50 at 25° C
50.000 h



Efficiency
150 lm

Highbay 31 luminaires

Size	Colour temperature K	Colour rendering CRI	Net luminous flux lm	Connected load W	Luminous efficacy lm / W	Control	Sensor	Ambient temperature	Weight kg	Optics	Order number
 S	4.000	> 80	14.000	93	150	ON / OFF	no	-30 ... +45° C	3,4 kg	medium	51HC417A4FMA
	4.000	> 80	14.000	93	150	ON / OFF	no	-30 ... +45° C	3,4 kg	wide	51HC427A4FMA
	4.000	> 80	14.000	93	150	ON / OFF	yes (PIR)	-30 ... +45° C	3,4 kg	wide	51HC427A4FMA01
	4.000	> 80	14.000	93	150	DALI	no	-30 ... +45° C	3,4 kg	medium	51HC41DA4FMA
	4.000	> 80	14.000	93	150	DALI	no	-30 ... +45° C	3,4 kg	wide	51HC42DA4FMA
	4.000	> 80	20.000	133	150	ON / OFF	no	-30 ... +45° C	3,4 kg	medium	51HC417A4JMA
	4.000	> 80	20.000	133	150	ON / OFF	no	-30 ... +45° C	3,4 kg	wide	51HC427A4JMA
	4.000	> 80	20.000	133	150	ON / OFF	yes (PIR)	-30 ... +45° C	3,4 kg	wide	51HC427A4JMA01
	4.000	> 80	20.000	133	150	DALI	no	-30 ... +45° C	3,4 kg	medium	51HC41DA4JMA
	4.000	> 80	20.000	133	150	DALI	no	-30 ... +45° C	3,4 kg	wide	51HC42DA4JMA
 L	4.000	> 80	28.000	187	150	ON / OFF	no	-30 ... +45° C	4,2 kg	medium	51HC417A4MMA
	4.000	> 80	28.000	187	150	ON / OFF	no	-30 ... +45° C	4,2 kg	wide	51HC427A4MMA
	4.000	> 80	28.000	187	150	ON / OFF	yes (PIR)	-30 ... +45° C	4,2 kg	wide	51HC427A4MMA01
	4.000	> 80	28.000	187	150	DALI	no	-30 ... +45° C	4,2 kg	medium	51HC41DA4MMA
	4.000	> 80	28.000	187	150	DALI	no	-30 ... +45° C	4,2 kg	wide	51HC42DA4MMA

Highbay 31 Accessories

Designation	Size	PU	Weight kg	Order number
Mounting bracket, 329 mm	S	1 pc.	1	59HC92001
Mounting bracket, 404 mm	L	1 pc.	1	59HC92002
Link chain, steel, galvanised		running meter	0,1	5LY9001
System connection: plug / socket, IP65, 3-pin, max. 2.5 mm ²		1 pc.	0,1	5NX30003
System connection: plug / socket, IP65, 5-pin, max. 2.5 mm ²		1 pc.	0,1	5NX30005
Reflector, Ø 410 mm, aluminium	S	1 pc.	0,5	59HC91003
Reflector, Ø 570 mm, aluminium	L	1 pc.	0,6	59HC91004
Reflector, Ø 410 mm, PC	S	1 pc.	0,7	59HC91001
Reflector, Ø 570 mm, PC	L	1 pc.	0,8	59HC91002



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