

Functionality, flexibility – Licross[®] High Bay

Countless lighting tasks, uncompromising standards, tightly calculated resources, one solution: Licross® High Bay. With a track record of more than 70 years of experience, SITECO presents a comprehensive lighting system that perfectly meets and exceeds all the requirements for more than standard-compliant, economical, flexible, contemporary and future-oriented lighting.

A universal lighting solution for industry, logistics and sports with maximum flexibility and functionality – light to the power of three.









Intelligently designed from A to Z

From A for ambient conditions to Z for Zhaga standards – Licross® High Bay leaves nothing to chance. Easy operation, strong performance, wide-ranging functionality and maximum configuration flexibility – the high bay luminaire combines all these advantages in a single harmonized system solution.























Impressively efficient

For a wide application spectrum via three standard sizes with defined lumen packages and light distributions

The Licross® High Bay from SITECO heralds a new era for lighting in high halls: On the outside a modular concept in three standard sizes with highly precise lumen packages for mounting heights between 6 and 25 meters, with innovative technologies for maximum efficiency, quality of light and safety on the inside.

Many mounting options including variants for integrating into the Licross® trunking system

High visual comfort due to very good glare control with UGR < 22

Optional sensor technology for light control depending on movement and available daylight

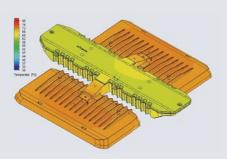
Highly efficient lens-based optic system with high-performance LEDs and two precise light distributions (narrow and wide distribution)

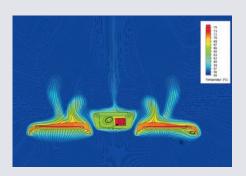
Functional form

Higher temperatures are a challenge. For this reason Licross® High Bay features a sophisticated thermally-optimized design and separate installation spaces for the electronics and LEDs.

Licross® High Bay stays cool

For consistent performance and high service life in environments with up to +55 °C. Special versions even withstand +70 °C.





Durable and reliable even at high ambient temperatures, special versions for use up to +70 °C

Robust diecast aluminum housing (IP85, IK08) for industrial, logistics and sport applications

Flexible uses also in special automotive and food industry applications (LABS-free, IFS)

Optimally illuminated with 4000 K color temperature.

Other light colors on request

A family from a single cast

Whether two, four or six luminaire heads – Licross® High Bay has a uniform design vocabulary throughout all sizes. Thanks to a special connection component, even high-power variants with eight heads for hall heights exceeding 25 meters can be configured.

For you this means: Solutions perfectly matched to your application and use. As much light as you need, but no more than is necessary. In a nutshell: Cost-efficiency.

Supplementary characteristics of the standard versions

Licross® High Bay with two LED modules

- Light distribution: Narrow and wide distribution
- Lumen package: up to 14,400 lm
- Mounting height: 6 to 10 m
- Temperature range (according to version):
 - -35 to +55 °C/to +70 °C



Licross® High Bay with four LED modules

- Light distribution: Narrow and wide distribution
- Lumen package: up to 32,000 lm
- Mounting height: 8 to 20 m
- Temperature range (according to version):
 - -35 to +45 $^{\circ}$ C/to +55 $^{\circ}$ C/to +70 $^{\circ}$ C



Licross® High Bay with six LED modules

- Light distribution: Narrow distribution
- Lumen package: up to 48,000 lm
- Mounting height: 18 to 25 m
- Temperature range: -35 to +45 °C



Licross® High Bay Power with eight LED modules

- Light distribution: Narrow and wide distribution (with cross-connector as accessory)
- Lumen package: up to 64,000 lm
- Mounting height: > 25 m
- Temperature range (according to version): -35 to +45 °C/to +55 °C/to +70 °C







The perfect duo for industry

Licross® High Bay can be simply and quickly integrated into the mounting rail of the Licross® trunking system in just a few steps, thus reducing mounting and installation complexity to a minimum. Simply position the Licross® High Bay insert into the rail and fix with the rotary catches. Finished.

With its large lumen packages, Licross® High Bay ideally supplements the trunking system.

Simple integration into the Licross® trunking system



At a glance

- Integration of the Licross® High Bay with two and four LED modules
- Wide application spectrum via two lumen packages (16,000/32,000 lm) and two light distributions (narrow and wide)
- Suitable for ambient temperatures from -35 to +45 °C
- IP64 protection

Modern light, major savings potential

Safe and precise work in industrial environments demands top visual performance from the human eye. When a company invests though, in addition to productivity and functionality this also concerns raw figures: maintenance costs, running costs, energy costs. This is where Licross® High Bay sets new standards, even in comparison with other LED solutions.

Comparative calculation for the new construction of a production hall

- Hall: 50x25x15m; MH: 14.5m
- E_m: 500 lx (EN 12464-1/ASR 3.4)
- Operation: 4580 h/year (2-shift operation with 18 h/day, 5-day week)
- Nominal electricity price: € 0.17/kWh
- Investment costs: Costs for luminaire x no. of luminaires
- Installation costs per luminaire: € 60
- Maintenance costs: € 10/luminaire with five cleaning cycles in 10 years



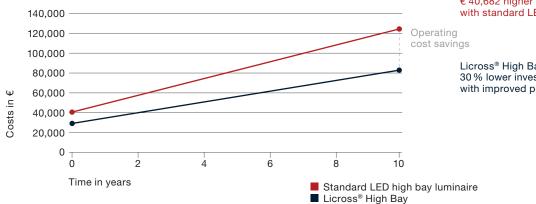
Standard LED high bay luminaire

Licross® High Bay - 51HLA2D24MCA

System configuration		
No. of luminaires	50	42
E _m (lx)	523lx (MF 0.67)	548 lx (MF 0.67)
Rated power (W)	206 W	160 W
Energy consumption		
Energy consumption / year (kWh)	47,174	30,778
Energy cost saving (%)		35 %

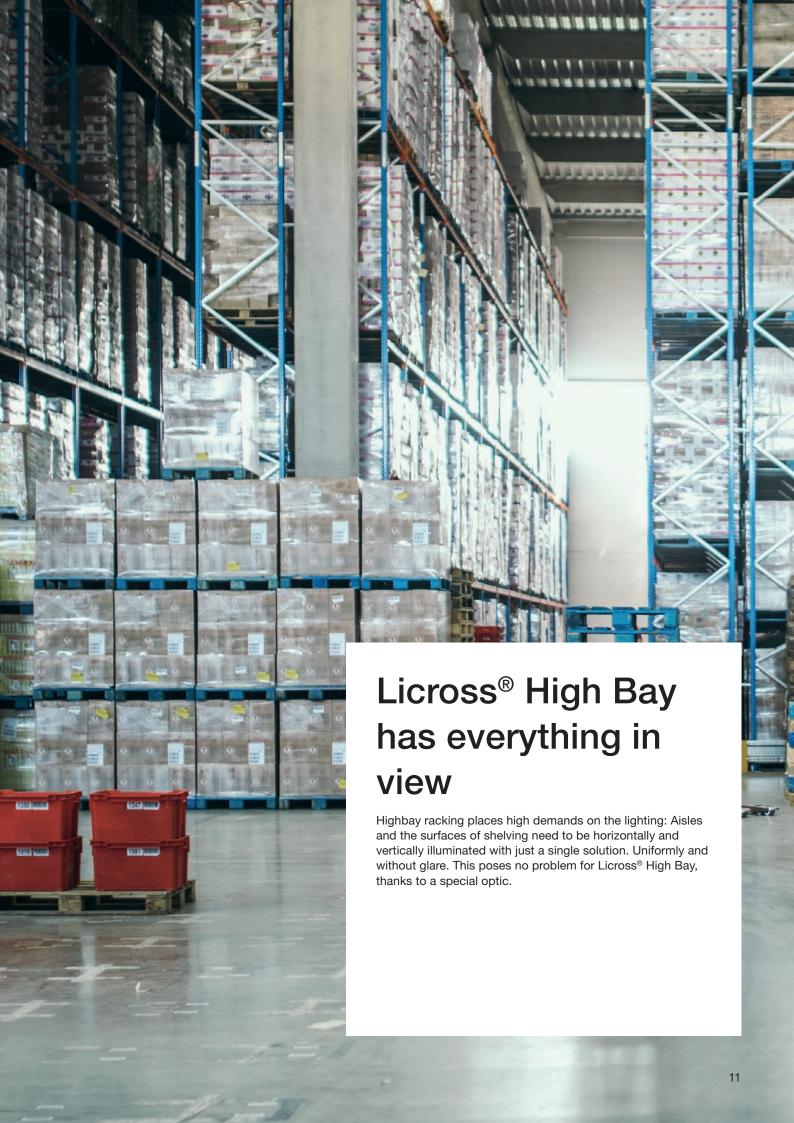
Over 10 year period		
Investment costs (€)	40,500	28,560
Energy costs over system operating time (€)	81,544	53,202
Energy cost saving		35 %
Maintenance costs over system operating time (€)	2500	2100
Maintenance cost saving		16 %
TCO total costs (investment costs + energy costs + maintenance	e costs)	
Total costs over system operating time (€)	124,544	83,862
Total cost saving		33 %
CO ₂ saving over system operating time (t)		82

TCO comparative calculation for payback period



€ 40,682 higher total costs over the operating time with standard LED high bay luminaire

Licross® High Bay solution 30 % lower investment costs with improved performance



Reliable almost everywhere

Licross® High Bay is the next step towards modular and individual hall lighting. The luminaire features maximum flexibility with a unique level of efficiency and quality of light, along with an unbeatable price/performance ratio. Licross® High Bay is a lighting solution that fulfills a wide diversity of requirements and always provides precisely the right solution for industry, logistics and sport.





Industry

Planning aspects:

- For large mounting heights
- Low number of light points, good uniformity, high illuminance, very good quality of light
- Robust, safe, reliable, long service life, no maintenance, high protection rating
- Vibration-resistant, no stroboscopic effect

Heavy industry

Planning aspects:

- Continuously high ambient conditions of up to +70°C
- Dirty, humid surroundings
- High reliability and failsafe performance required





Logistics and highbay racking

Planning aspects:

- Using the special supplementary optic, ideal for the efficient illumination of highbay racking with larger room heights and aisle widths
- Good glare reduction



Sport

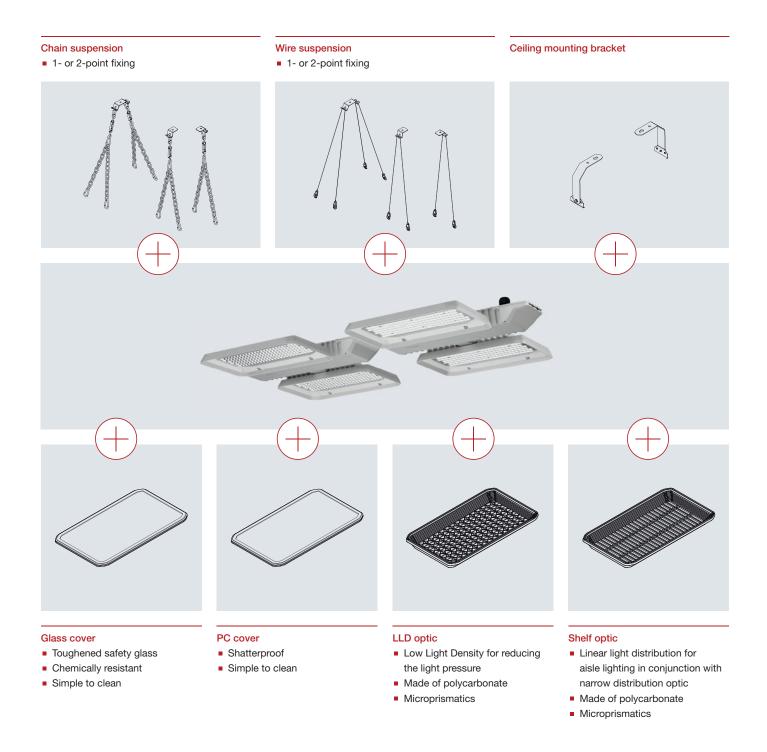
Planning aspects:

- Durable, robust housing with ballproof luminaire construction
- Robust mounting with chain suspension



Systematic flexibility

Widely diverse visual tasks and always the right lighting solution: Thanks to the versatility of Licross®, the right solution can always be found. The various photometric enclosures and mounting options make Licross® High Bay the technical basis for application-specific lighting solutions – ranging from classic industrial environments, logistics applications and heavy industry to sports halls and arenas. Simply systematic flexibility.



Licross® High Bay

Single luminaire for surface-mounted or suspended mounting | IP65

Rated service life up to 70,000 h (L85/B50 at t_a 55 °C) | suitable for ambient temperatures of -35 °C ... +70 °C

Configuration		K	Ra	lm	W	lm/W	Control	Ambient temperature	Weight	GTIN (EAN)	Order no.
with 2 LED modules											
Narrow distribution	1x 2x LED	4000	> 80	9790	56	176	DALI	-35+70°C	4.3 kg	4058352348871	51HL61D14DCA
	1x 2x LED	4000	> 80	14,060	81	173	DALI	-35 +55 °C	4.3 kg	4058352321720	51HLA1D14FCA
Wide distribution	1x 2x LED	4000	> 80	10,020	56	177	DALI	-35+70°C	4.3 kg	4058352348918	51HL62D14DCA
	1x 2x LED	4000	> 80	14,400	81	177	DALI	-35 +55 °C	4.3 kg	4058352322963	51HLA2D14FCA
with 4 LED modules											
	2x 2x LED	4000	> 80	19,570	111	176	DALI	-35+70°C	8.8 kg	4058352348895	51HL61D24HCA
Narrow distribution	2x 2x LED	4000	> 80	28,120	162	173	DALI	-35 +55 °C	8.8 kg	4058352322925	51HLA1D24MCA
	2x 2x LED	4000	> 80	32,370	190	171	DALI	-35 +45 °C	8.8 kg	4058352322932	51HLA1D24NCA
	2x 2x LED	4000	> 80	20,050	113	177	DALI	-35+70°C	8.8 kg	4058352348932	51HL62D24HCA
Wide distribution	2x 2x LED	4000	> 80	28,800	162	177	DALI	-35 +55 °C	8.8 kg	4058352321744	51HLA2D24MCA
	2x 2x LED	4000	> 80	33,150	190	175	DALI	-35 +45 °C	8.8 kg	4058352322987	51HLA2D24NCA
with 6 LED modules											
Narrow distribution	3x 2x LED	4000	> 80	48,560	284	171	DALI	-35+45°C	13.3 kg	4058352322949	51HLA1D34SCA
for emergency opera	ation on 230\	/ DC									
Wide distribution	2x 1x LED	4000	> 80	14,400	81	177	DALI	-35 +55 °C	4.3 kg	4058352341629	51HLA2D14FCAD
	2x 2x LED	4000	> 80	28,800	162	177	DALI	-35 +55 °C	8.8 kg	4058352341636	51HLA2D24MCAD
ballproof											
Wide distribution	2x 1x LED	4000	> 80	14,400	81	177	DALI	-35+55°C	4.3 kg	4058352367407	51HLASD14FGA
	2x 2x LED	4000	> 80	28,800	162	177	DALI	-35 +55 °C	8.8 kg	4058352367421	51HLASD24MGA

Licross® High Bay for mounting rail

Luminaire for installation in the mounting rail | IP64

Rated service life up to 70,000 h (L85/B50 at t_a 45 °C) | suitable for ambient temperatures of -35 °C ... +45 °C

with 2 LED modules										
Narrow distribution	1x 2x LED	4000	> 80	16,159	95	171 DALI	-35+45°C	5.3 kg	4058352361429	51HLA1D14GLA
Wide distribution	1x 2x LED	4000	> 80	16,575	95	175 DALI	-35 +45 °C	5.3 kg	4058352361467	51HLA2D14GLA
with 4 LED modules										
Narrow distribution	2x 2x LED	4000	> 80	32,317	190	171 DALI	-35+45°C	9.8 kg	4058352361443	51HLA1D24NLA
Wide distribution	2x 2x LED	4000	> 80	33,150	190	175 DALI	-35+45°C	9.8 kg	4058352361481	51HLA2D24NLA

Energy efficiency class of assembled LED modules: A++, A+, A. LED modules are non-replaceable

Accessories					
Description		PU	Weight	GTIN (EAN)	Order no.
Covers and supplementary optics					
Cover, glass	L = 313 mm, W = 174 mm	2 pcs.	0.6 kg	4058352323519	59HL91001
Cover, PC	L = 313 mm, W = 174 mm	2 pcs.	0.5 kg	4058352341650	59HL91002
Supplementary optic shelf distribution	L = 313 mm, W = 174 mm	2 pcs.	0.5 kg	4058352341667	59HL91003
Supplementary optic LLD	L = 313 mm, W = 174 mm	2 pcs.	0.5 kg	4058352341674	59HL91004
Mounting					
Chain suspension 1-point fixing		1 pc.	0.5 kg	4058352332405	59HL92001
Chain suspension 2-point fixing		2 pcs.	0.5 kg	4058352332429	59HL92002
Wire suspension 1-point fixing		1 pc.	0.5 kg	4058352329948	59HL92004
Wire suspension 2-point fixing		2 pcs.	0.5 kg	4058352329962	59HL92005
Ceiling mounting bracket		2 pcs.	1.0 kg	4058352325315	59HL92006
Luminaire connector		2 pcs.	1.7kg	4058352341681	59HL92007
Sensor components					
Licross® High Bay Sensor Interface MD	Sensor base plate Master	1 pc.	0.2 kg	4058352363864	59HL94001
Licross® High Bay Sensor Interface S	Sensor base plate Slave/DALI 2	1 pc.	0.2 kg	4058352363875	59HL94002
Licross® Sensor Head PR2-M	for highbay racking Master	1 pc.	0.2 kg	4058352363881	59US1HXMPR2A
Licross® Sensor Head PR2-S	for highbay racking Slave/DALI 2	1 pc.	0.2 kg	4058352361979	59US1HXSPR2A
Licross® Sensor Head PC5-M	for wide-area up to MH 14 m Master	1 pc.	0.2 kg	4058352363843	59US1HXMPC5A
Licross® Sensor Head PC5-S	for wide-area up to MH 14m Slave/DALI 2	1 pc.	0.2 kg	4058352363942	59US1HXSPC5A
Licross® Sensor Head D2	Light sensor Slave/DALI 2	1 pc.	0.2 kg	4058352363683	59TS1HXSD2A
Smart Remote	Commissioning tool	1 pc.	0.1 kg	4058352363713	59UC3RCA
Sensor cap silver	Sensor cover	1 pc.	0.1 kg	4058352364017	59US6H

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