

**CRAFT**



## *Active Light | Connecting with Nature*

Creating Light Creates Precision

01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12:00

*Active Light in industry is as unique and dynamic as the employees, the processes and the layout of different production halls. Human Centric Lighting puts the focus of the lighting design firmly on the individual. Visual, emotional and biological needs are fully supported by a blend of Active Light and additional workplace-oriented lighting for work during the day and the night. This approach also facilitates accurate working and improved quality. Pioneering lighting solutions with activity-based lighting use innovative sensor technology to automatically adapt to the specific situation.*

Find out how Active Light works:  
[zumtobel.com/activelight](http://zumtobel.com/activelight)



#### **Intensity**

Dynamically adjusted lighting levels help employees with their regular visual tasks. Active Light helps reduce error rates and increase worker safety.



#### **Direction**

Uniform and shadow-free illumination minimises glare – even with glossy surfaces. Adjusting the direction of the light towards the visual object with Active Light enhances visual quality. Precise work is promoted and fatigue is simultaneously kept to a minimum.



#### **Colour**

Active Light means tailoring light colours to reflect age, user preference and working hours, increasing well-being and boosting employee productivity.



#### **Time**

Artificial light based on the natural course of the day helps support the internal clock. Luminaires controlled by sensors, which only switch on when light is required, reduce costs and minimise energy consumption.







**Bayerische Zugspitzbahn, Garmisch-Partenkirchen | DE**

Electrical planning: Bayerische Zugspitzbahn Bergbahn AG, Garmisch-Partenkirchen | DE

Electrical installation: Elektro Hofmann GmbH, Garmisch-Partenkirchen | DE





**“Arup and Zumtobel share numerous established brand values. Both companies rely on innovation to develop better solutions that provide real benefits for people. When developing CRAFT, our exciting cooperation made it possible to create a luminaire with very high standards in terms of technical features and design. Moreover, the direct feedback and application know-how by our international lighting team helped us meet these requirements in a truly global product concept.”**

Design | Stephen Philips, Arup



**DESIGN PLUS**  
powered by: **light+building**

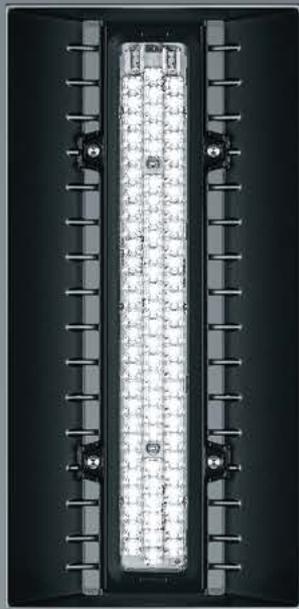
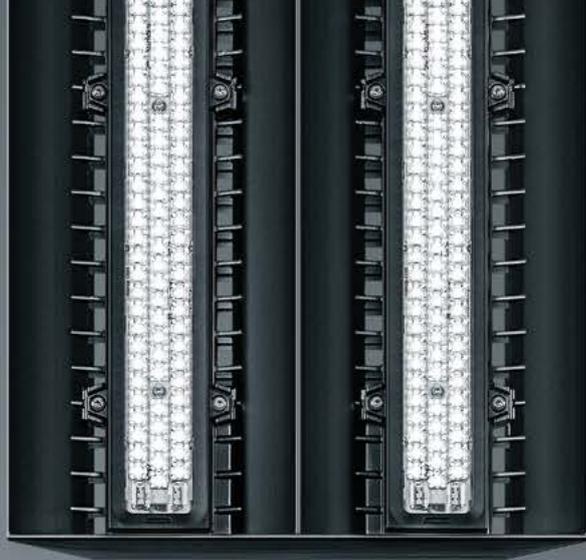
[zumtobel.com/craft](http://zumtobel.com/craft)

# You can depend on CRAFT

Continuation of a success story

Its reliability creates multiple benefits: starting with unique thermal management, the CRAFT high-bay LED luminaire is best prepared for challenges in industry, retail and in sports halls. It combines high resilience, zero maintenance and a long life time with low electricity requirements. CRAFT handles the wide variety of lighting tasks with four sizes, various mounting options and illuminance from 7500 lm to 68 000 lm. Appropriate, good lighting reduces error rates and ensures well-being. Additional safety is provided by stable light colours (3000 K, 4000 K or 6500 K) and optimum lateral glare suppression (UGR > 22). CRAFT meets the high requirements for colour rendering with values of up to Ra > 80. Stroboscopic effects in rotating machines are also entirely unheard of with these luminaires, even when dimmed.

	Dimensions (LWH)	Mounting height	Lumen output	Lumens per watt (LEF)
	CRAFT <b>S</b> 339 x 164 x 125 mm	3 to 6 m	7500 lm	129 lm/W
	CRAFT <b>M</b> 390 x 330 x 114 mm	5 to 12 m	10 000 lm 13 000 lm 17 000 lm	154 lm/W 144 lm/W 142 lm/W
	CRAFT <b>L</b> 680 x 330 x 114 mm	8 to 25 m	20 000 lm 26 000 lm 34 000 lm	154 lm/W 144 lm/W 142 lm/W
	CRAFT <b>XL</b> 680 x 680 x 140 mm	15 to 30 m	68 000 lm	142 lm/W



# Less is more

## New design delivers added benefits

The high-bay LED luminaire CRAFT raises the bar to impressive heights. The luminaire's inner workings and appearance have been designed from scratch – this was the only way to make CRAFT achieve its outstanding efficiency level. With a power input of 280 W, a luminous flux of 36 000 lumens is produced. To achieve high-precision light direction, each LED has been assigned a separate lens, which means that long shelves can now be illuminated as efficiently as spacious bays.

### **CRAFT components**

- 1 The frame is screwed together which protects the optics and distinguishes CRAFT as a ball-proof luminaire.

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- 2 The optics assign each LED its own lens. This allows the light to be directed very precisely and is extremely efficient.

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- 3 The LED board has been optimised for a high luminous flux and long life cycle. After 50,000 hours of operation, at least 85 per cent of the initial luminous flux will still be achieved.

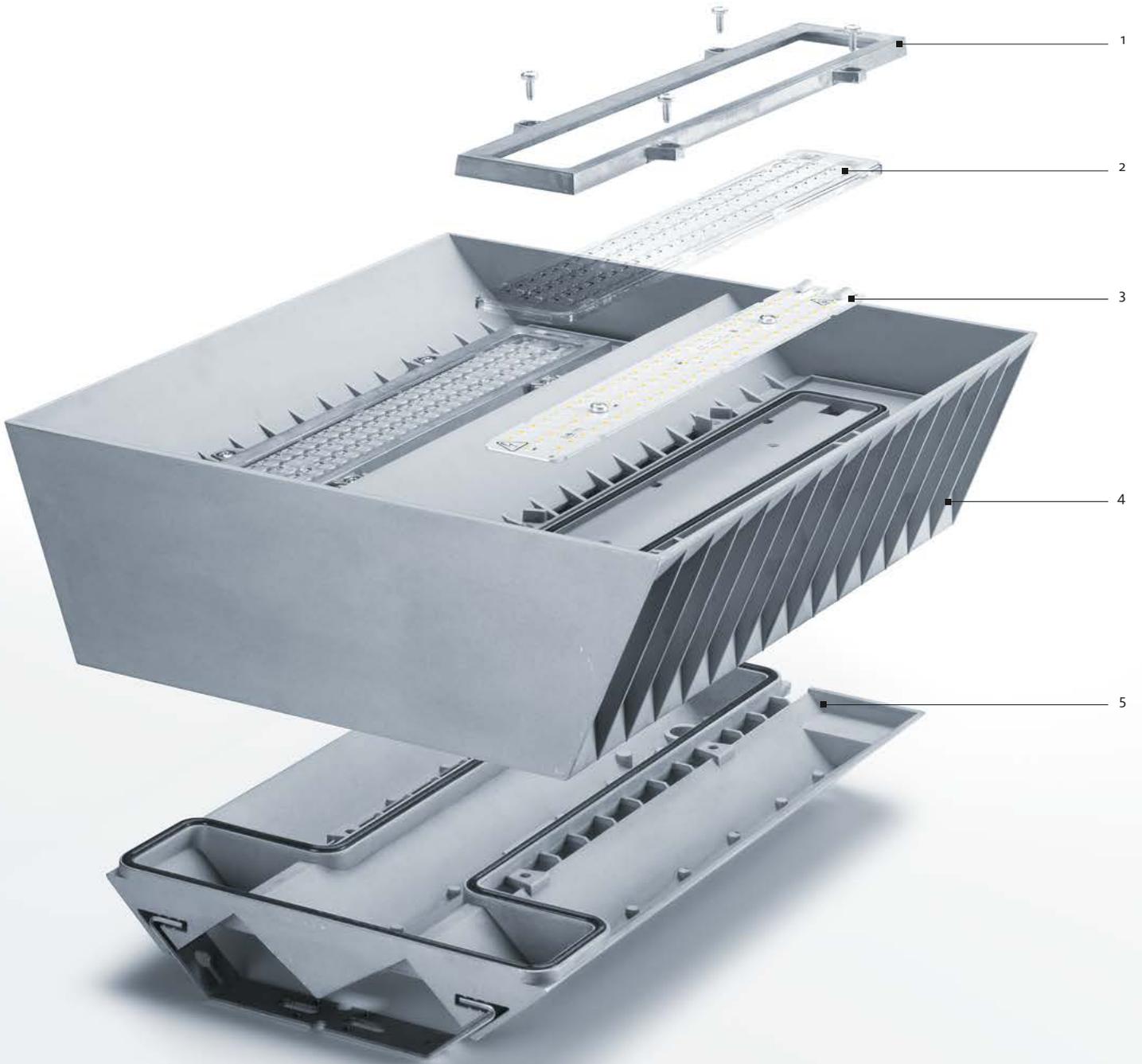
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- 4 The die-cast aluminium housing is light, and at the same time robust. The decrease in the number of individual parts has also reduced the number of sealing layers required. As a result, CRAFT is resistant to the ingress of moisture and dirt.

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- 5 The housing cover with integrated sealing rim prevents the ingress of moisture and dirt. Easy access to the converter facilitates maintenance.

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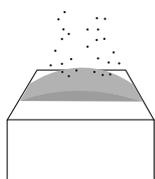
# Built for the job

CRAFT takes tough industrial challenges in its stride

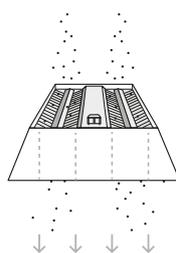


## Dust deposits on the luminaire

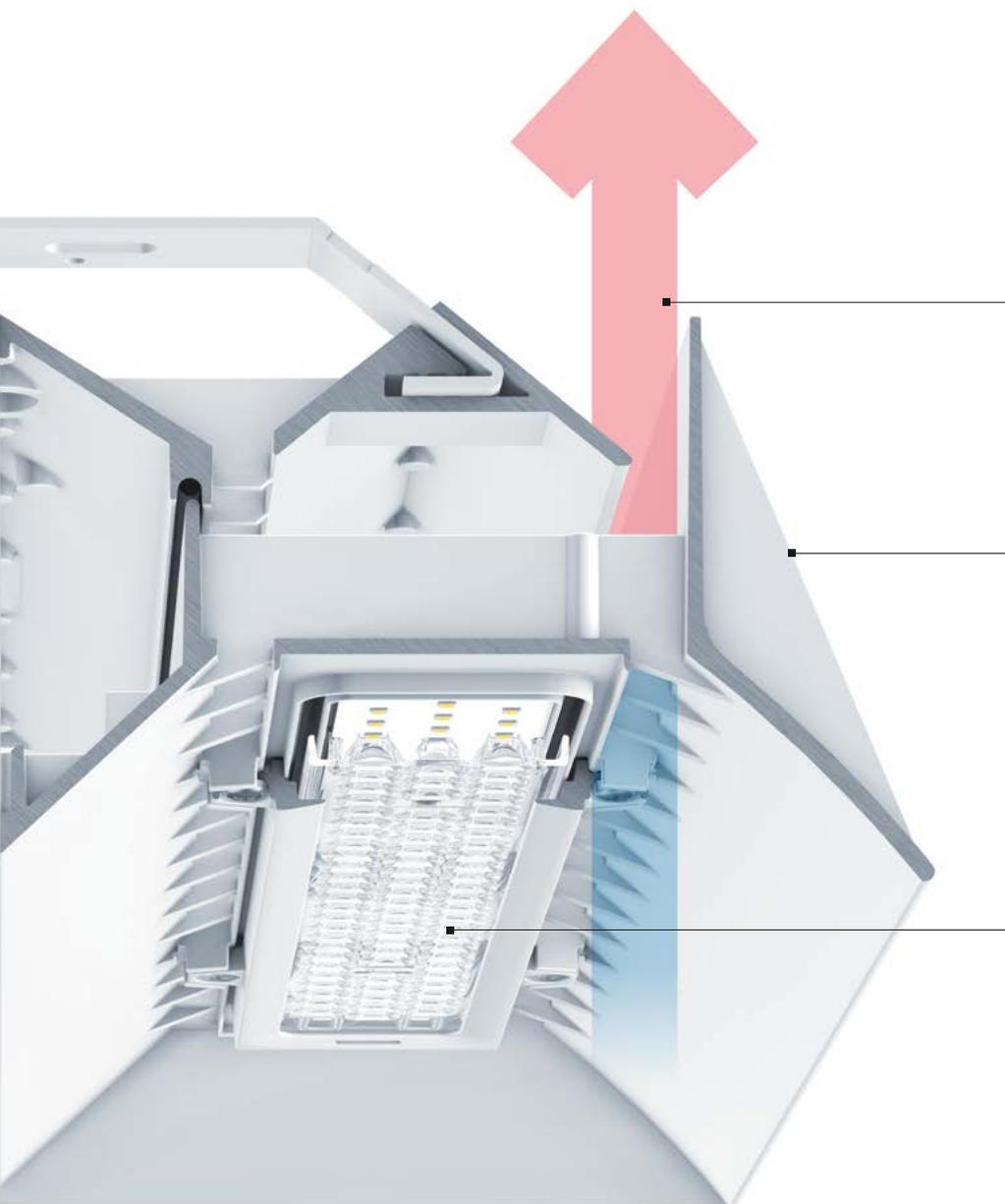
Conventional luminaire



CRAFT



With CRAFT, design and function form one inseparable unit. Based on requirements made by industrial applications, each luminaire component fulfils a specific function. This is reflected by details such as the LED boards arranged at both sides of the converter, which allow perfect thermal management thanks to the separating air gap. The resulting stack effect optimises passive cooling by the extensive rib structure, avoiding the accumulation of dust that would be detrimental as it would interfere with the luminaire's thermal conditions. Ambient temperatures of 55°C or higher are frequently found here, and luminaires installed above high-bay storage or production facilities are difficult to access for maintenance purposes.



In order to ensure perfect cooling and minimum maintenance effort, CRAFT creates air flow through the luminaire. This sustainably protects the technical components from overheating and optimises the luminaire's service life.

Bevelled luminaire surfaces prevent dust from accumulating.

The CRAFT wide-beam and the CRAFT narrow-beam versions, industrial luminaires meet all requirements in terms of uniform illumination of bays and efficient lighting of high-bay storage facilities. Each LED has been assigned a separate lens. This ensures that the light is directed very precisely as well as providing good glare control and outstanding efficiency.

As a generally DALI-dimmable luminaire that can be operated with emergency power, CRAFT excludes strobing and makes perfect use of the possibilities of lighting control. Controlled lighting solutions save energy and adjust to changing requirements: areas requiring 500 lux for production activities today may make do with 200 lux for storage purposes tomorrow.



**DIESEL S.p.A, Molvena | IT**

Architecture: Diesel Creative, Breganze | IT

Electrical installation: F&M Ingegneria S.p.A, Mirano | IT



# CRAFT

A powerhouse for various different application areas



## **CRAFT PMMA**

Especially for extreme ambient conditions and exposure to chemical substances in industrial production facilities, a PMMA optic was developed that is highly durable even in atmospheres frequently containing oil. Additional protection is provided by an easy-to-clean cover made of toughened safety glass.



## **CRAFT PC**

The high-bay LED luminaire with PC optic is perfectly suitable for use in industrial areas without exposure to chemical substances. Typical application areas are high-bay warehouses, large exhibition halls, reception halls or also sports halls (BWS certificate available).



## **CRAFT sens (presence sensor and daylight sensor)**

Choosing a lighting solution that is daylight and presence dependent is the best way of saving energy in storage applications. CRAFT sens does not require separate wiring or additional lighting controls. The sensor is ideal for mounting heights up to 16 meters.



## **CRAFT emergency**

Local, independent and long-lasting: an integrated emergency battery takes over in the event of a power failure. Emergency operation is guaranteed for up to 3 hours with luminaires in sizes M and L at an ambient temperature of up to 35°C, helping to ensure optimum safety.



#### **CRAFT TECTON**

The LED high-bay luminaire with TECTON adapter can be integrated in the trunking system faster than ever. No additional wiring work is required. This means that CRAFT TECTON can be installed on the trunking immediately after unpacking. With a DALI converter for LED luminaires which can operate on emergency power, CRAFT TECTON is perfectly prepared for various installation purposes.



#### **CRAFT FI (Food Industry)**

A luminaire housing developed specifically for the defined requirements of the food industry prevents dust and bacteria from accumulating on the CRAFT FI version. Smooth surfaces make cleaning easier, while a polycarbonate optic not only ensures perfect lighting quality, but also protects the LED modules against harmful external influences. Even high ambient temperatures of up to 50 °C are no longer a problem.



#### **CRAFT HT (high-temperature)**

High ambient temperatures of up to +70 °C in industrial bays are a real challenge that can, however, be mastered by CRAFT HT fitted with a PC optic. The luminaire specifically designed for operation at high temperatures is able to withstand the most extreme industrial conditions.



#### **CRAFT bmLINK**

No cables, little effort and yet still full DALI compatibility: bmLINK wirelessly integrates luminaires into new or existing new systems. There is even a choice between luminaires with a bmLINK module and fittings that feature both a bmLINK module and a combined presence and daylight sensor. Simple commissioning with a wireless device means that modern lighting control could hardly be easier.



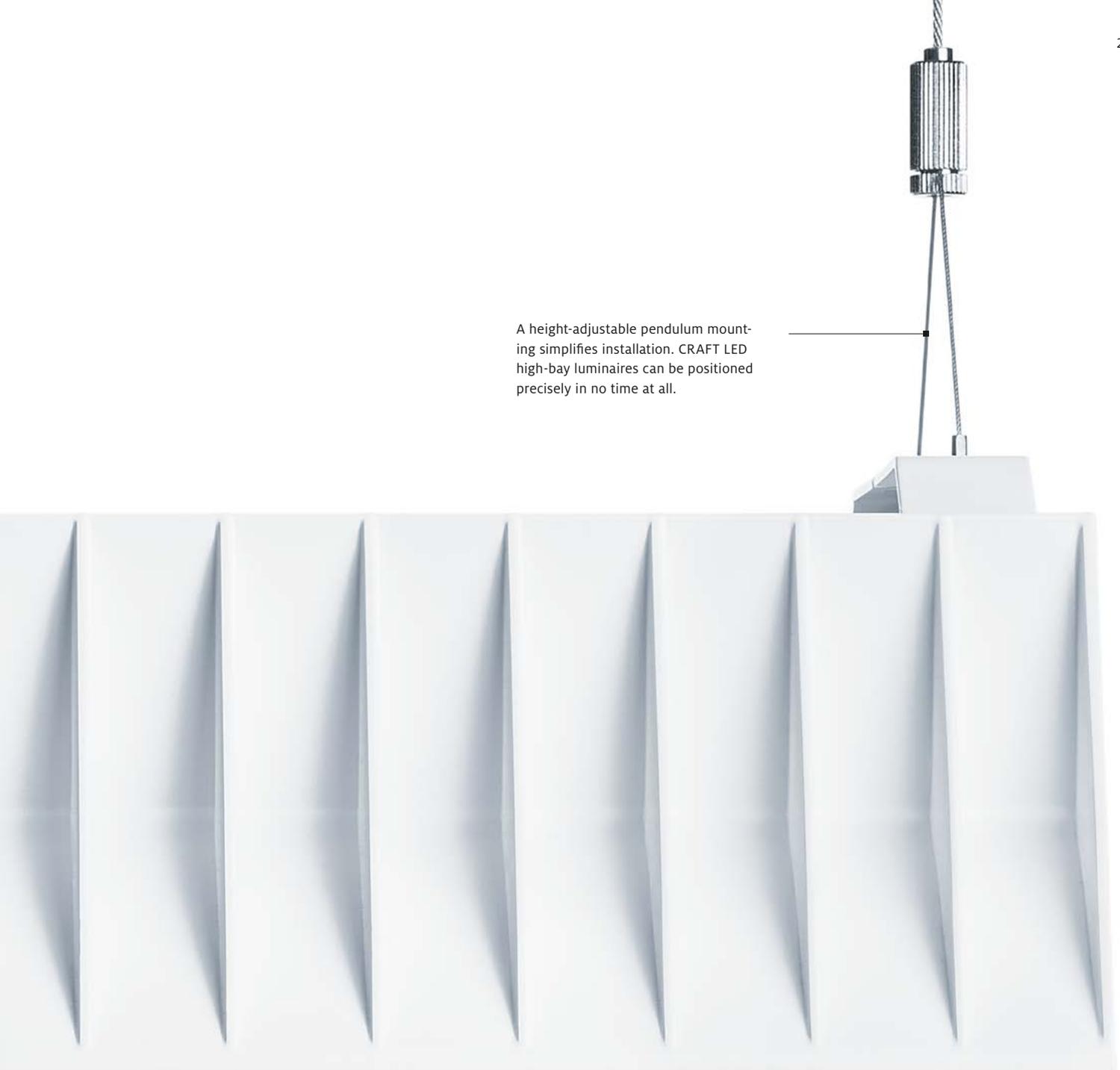
Actual size shown

## A light and compact luminaire

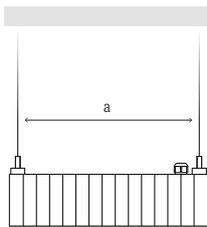
Simple mounting and installation

The small, compact industrial luminaire combines maximum output with easy handling. Thanks to its low weight of 5.6 kg (CRAFT M) or 9.5 kg (CRAFT L), it can be installed by just one person. CRAFT features only two suspension points for suspension from a cord or optionally from a chain, and can therefore be fixed and adjusted quickly. Another feature is the five-pole cable, 1.5 m long, allowing for electrical connection of the luminaire without having to open it. This guarantees IP65 protection.

A height-adjustable pendulum mounting simplifies installation. CRAFT LED high-bay luminaires can be positioned precisely in no time at all.

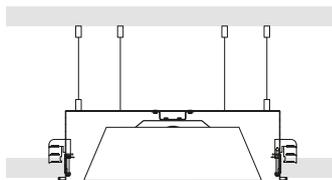


**Cord suspension**



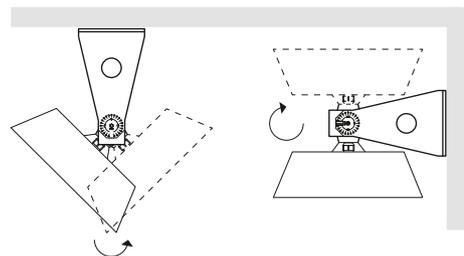
CRAFT S: a = 170 mm – 233 mm  
 CRAFT M: a = 356 mm  
 CRAFT L: a = 646 mm

**Recessed**



Mounting frames

**Optional installation**



Pivoting ceiling and wall fixture

# One trunking, many benefits

CRAFT and TECTON



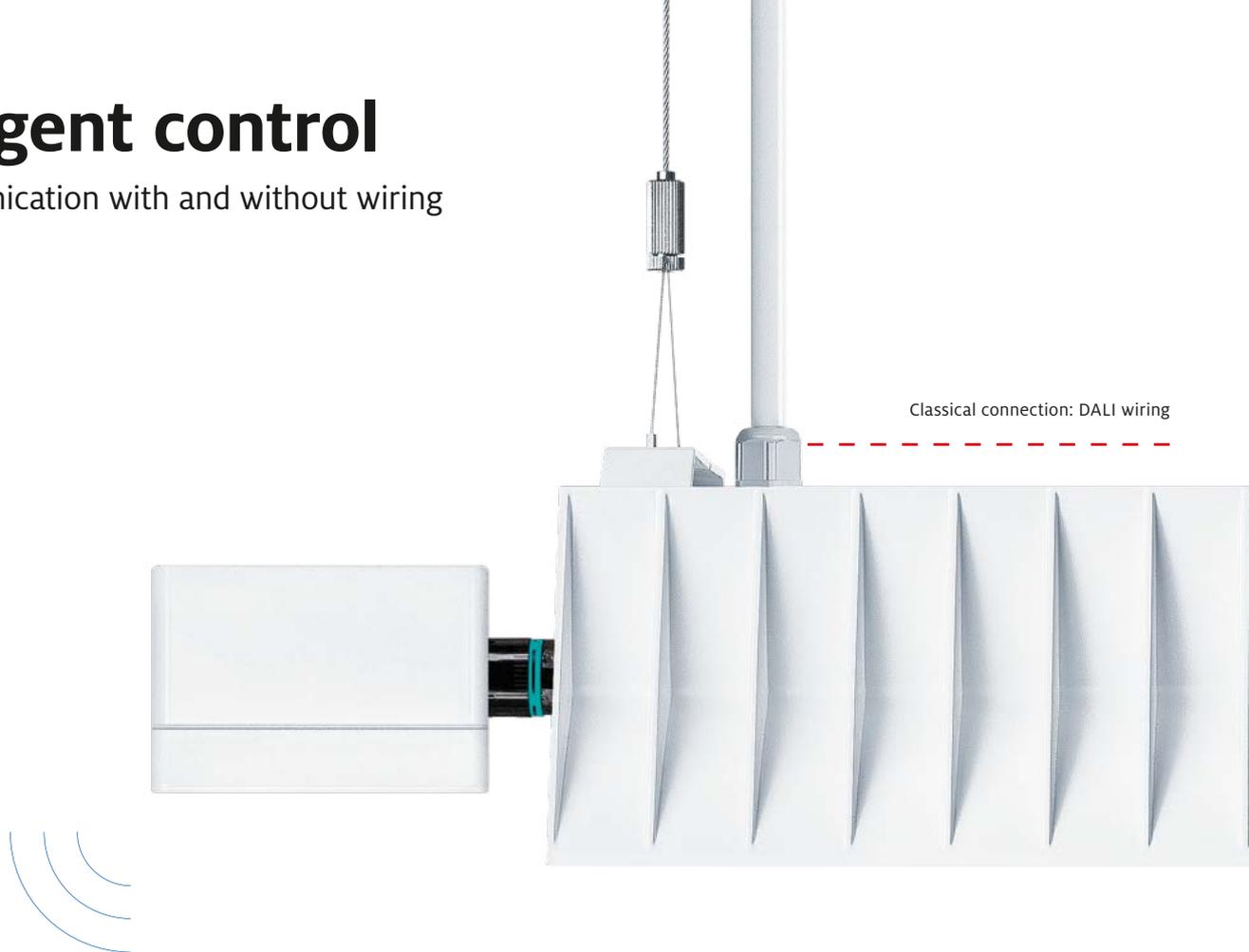
The CRAFT model suitable for installation on TECTON trunking, can be assembled quickly and allows for easy electrical installation. One single trunking run is sufficient enough to firmly secure the compact high-bay LED luminaire and connect it to the power supply and the lighting control system. With a simple turn of the wrist, additional products for emergency lighting can also be integrated into the proven TECTON trunking with its 11-pole current conducting section. Another benefit: luminaires already installed can be easily moved; additional luminaires can be clicked into place at the required position. Therefore, the system can be adjusted to new room layouts at any time.



Easy, straightforward installation is a major benefit of the compact, light-weight industrial luminaire.

# Intelligent control

## DALI communication with and without wiring



Classical connection: DALI wiring

New connection option:  
bmlink wireless radio connection

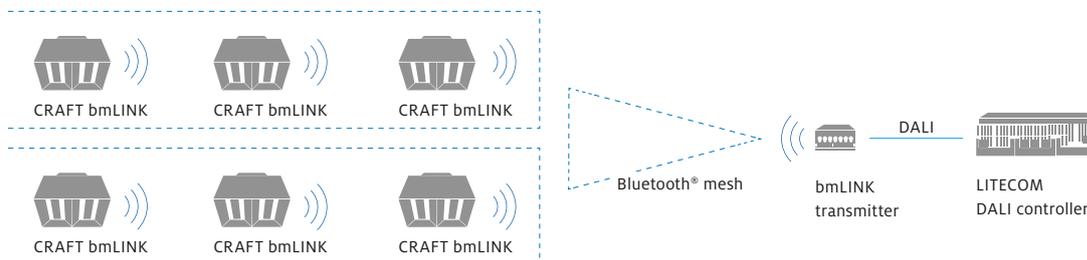


### CRAFT bmlink

bmlink provides an elegant solution to installation problems. Without cables, but with high levels of compatibility. In new or existing systems. As an all-in-one wireless solution, CRAFT bmlink sens even combines a motion sensor, light sensor and Bluetooth® receiver in one luminaire. The bmlink transmitter integrated into the DALI system simultaneously controls all luminaires in an assigned group, while data gathered by the sensor is sent to the controller. Bluetooth® mesh automatically transfers signals to adjacent devices, helping to increase both the range and the reliability of wireless communication.

**QUALIFIED  
BLUETOOTH®  
MESH**

Lighting control: LITECOM, DALI systems



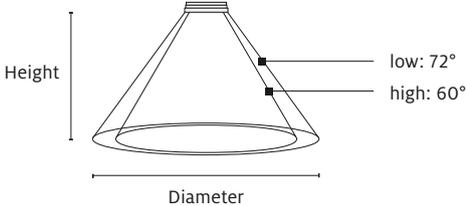


8 to 16 m mounting height

**CRAFT sens**

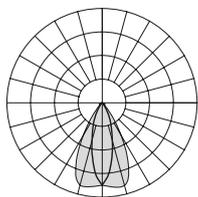
With low and high sensor variants, CRAFT sens accurately adapts the detection range for daylight and presence to suit the dimensions of the room, creating maximum flexibility when it comes to planning and application. And it is just as easy to install. CRAFT sens does not require addressing or commissioning for a control system. Both the delay time and the residual light level for safety lighting can be conveniently adjusted using an IR remote control.

<b>low</b>					
Height (m)	8.0	9.0	10.0	11.0	12.0
Diameter (m)	12.0	13.5	15.0	16.5	18.0
<b>high</b>					
Height (m)	12.0	13.0	14.0	15.0	16.0
Diameter (m)	14.0	15.2	16.4	17.6	18.8



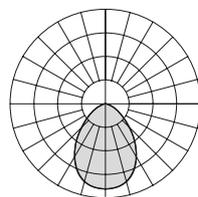
# Targeted lighting

The right lens for every application area



## CRAFT narrow beam for warehouses

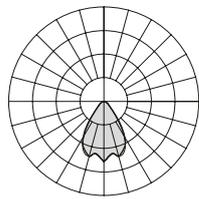
In warehouses, the challenge is to illuminate long and high rows of shelves as uniformly and efficiently as possible. The narrow-beam optic by Zumtobel has been designed, developed and manufactured especially for this application. CRAFT therefore stands aloof from widespread compromise solutions. As a distinctly narrow-beam solution, it uses the spacing between one LED luminaire and the next to full effect. In order to achieve a luminous intensity level of 100 lx on the floor and to properly illuminate the shelves, spacings of 15 m are possible with an installation height of 15 m.



## CRAFT diffused glare for sports halls

Looking up is part of the game in many types of sport. The associated risk of direct glare is significantly reduced by CRAFT diffused glare. A special diffuser optic reduces the perceived luminance - even when the light output is high. Together with a Lambertian light distribution, this version guarantees the best visual conditions in sports halls and helps ensure optimum safety at all times.





#### **CRAFT wide beam for production areas**

Based on industrial requirements, CRAFT has been optimised with a wide beam optic for production areas in which people need to work with full concentration and reliability. CRAFT provides light with good glare control – with unique efficiency and uniformity. This is made possible by a lighting cone that is shaped like a pyramid with a square base, which makes overlapping cones, as produced by luminaires with circular light emission, a thing of the past. This increases efficiency, even in terms of the lighting design.

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## **Flexible mounting**

Versatile mounting options make CRAFT a high-bay luminaire that can be used in a wide range of different projects. Alongside classic suspension versions, rotating ceiling and wall installation offer added flexibility. CRAFT can also be combined with TECTON to offer the advantages of a continuous-row lighting system, while an installation frame helps the fitting blend perfectly into the ceiling.

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## **Long life**

As an IP65-protected luminaire, CRAFT is ideal for the tough environmental conditions of industry applications. Specially designed features – like the unique chimney effect – equip this luminaire with added durability.

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## **Application-oriented lighting technology**

With a choice of three optics, CRAFT always guarantees the best visual conditions – with unrivalled uniformity and a comparatively low number of luminaires. The rectangular shape of the light beam prevents unnecessary overlapping and thereby simplifies planning.

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## **An extensive product range for extra versatility**

The CRAFT family features the right luminaire for any requirement. As well as different sizes, light outputs and light colours, there are also versions designed for special tasks, such as food-industry applications or rooms with high temperatures.

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## **Low energy consumption**

With a luminous efficiency of up to 154 lumens/watt, the CRAFT high-bay luminaire is one of the most efficient solutions in its class. Versions with presence and daylight sensors or bmLINK for wireless connection to DALI systems are part of a continuously growing range of products.

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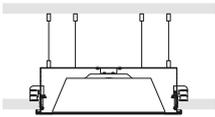
# CRAFT

High-bay LED luminaire

## Overview



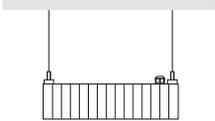
### Installation



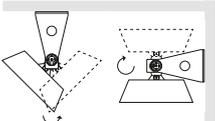
Recessed



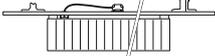
Surface-mounted



Pendant

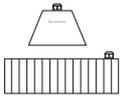


Can be rotated

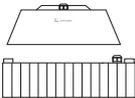


TECTON

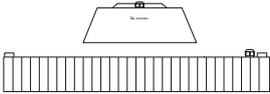
### Dimensions



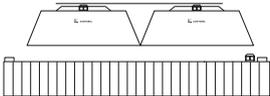
CRAFT S  
339 x 164 x 125 mm



CRAFT M  
390 x 330 x 114 mm



CRAFT L  
680 x 330 x 114 mm



CRAFT XL  
680 x 680 x 140 mm

### LED light colour



3000 K  
warm white\*

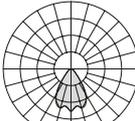


4000 K  
neutral white

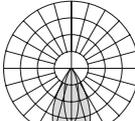


6500 K  
cool white

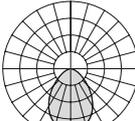
### Light distribution



wide beam



narrow beam



diffused glare

### Housing colour



White



silver



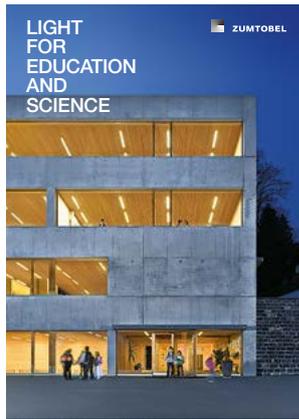
black

\*CRAFT S only

Zumtobel, a company of the Zumtobel Group, is an internationally leading supplier of integral lighting solutions for professional indoor and outdoor building lighting applications.



[zumtobel.com/office](http://zumtobel.com/office)



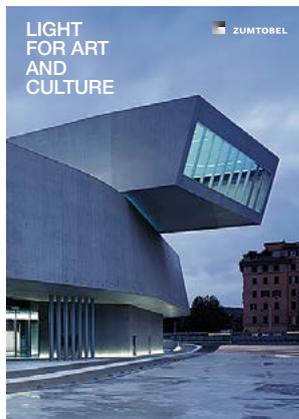
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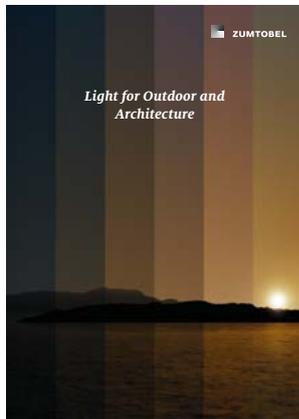
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- Offices and Communication
- Education and Science
- Presentation and Retail
- Hotel and Wellness
- Art and Culture
- Health and Care
- Industry and Engineering
- Outdoor and Architecture
- Living

We provide unique customer benefits by integrating technology, design, emotion and energy efficiency. We combine the best possible ergonomic lighting quality for an individual's well-being with the responsible use of energy resources. The company's own sales organisations in twenty countries, as well as commercial agencies in fifty other countries, form an international network of experts and design partners providing professional lighting consulting, design assistance and comprehensive services.

#### Lighting and sustainability

In line with our corporate philosophy "We want to use light to create worlds of experience, make work easier and improve communications and safety while remaining fully aware of our responsibility to the environment", Zumtobel offers energy-efficient high-quality products, while at the same time making sure that our production processes based on the considerate use of resources are environmentally compatible.

[zumtobel.com/sustainability](http://zumtobel.com/sustainability)



**Top quality – with a five-year guarantee.**  
As a globally leading luminaire manufacturer, Zumtobel provides a five year manufacturer's guarantee on all Zumtobel branded products in accordance with the terms of guarantee at [zumtobel.com/guarantee](http://zumtobel.com/guarantee).

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Technical data was correct at time of going to press.  
We reserve the right to make technical changes without notice. Please contact your local sales office for further information.



Tracks and spots



Modular lighting systems



Downlights



Recessed luminaires



Surface-mounted and pendant luminaires



Free-standing and wall-mounted luminaires



Continuous-row systems and individual batten luminaires



High-bay luminaires



Luminaires with extra protection



Facade, media and outdoor luminaires



Lighting management systems



Emergency lighting

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*The Light.*