

FIND THE RIGHT HIGH-BAY LUMINAIRE

The CRAFT II is a customised system for powerful, high-quality light. The platform principle creates a modular high-bay luminaire that can be assembled as required depending on the application. You get exactly the functions you need: from a simple high-bay luminaire to a maximum-performance version.

THE NEW CRAFT II HAS VARIOUS FEATURES THAT SET IT APART FROM OLDER MODELS:

Optimisation of light distribution and lumen output

Change from Wide Beam to Very Wide Beam to reduce the number of luminaires required

Lower UGR for applications where glare was a problem in the past
UGR<25 (Very Wide Beam), UGR<22 (Wide Beam), UGR<19 (Wide Beam Controlled Glare)

Higher colour rendering CRI 90 possible

Higher luminous efficacy up to 175lm/W, reducing energy costs

Use of Asymmetric Beam to avoid too much light from one direction

Higher lumen output, same size:
XL variant: up to 100 000 lumen
L variant: up to 50 000 lumen
M variant: up to 25 000 lumen

Various materials: PM (IK07), PC (IK08), CH (IK07)

PM: higher transparency, with excellent chemical and UV resistance, for demanding industries and animal husbandry

PC: high-quality, impact-resistant and UV-stabilised, for industry, logistics and sports

CH: very high chemical resistance, for very heavy-duty industrial applications

Ready for the Internet of Things (IoT)

Wireless luminaires with sensors

IP66 and IP69

Temperature range from -40°C to +70°C

Long life time (L85 100 000h)



The following overview should help you find the right CRAFT II version for your particular application:

PRODUCTION



METAL



FOOD



PHARMA

Characteristics of setting in which luminaires are used

Glossy surfaces, various visual tasks, oily and dusty environments, release agents and very high heights (up to 40m) require high lumen output and Narrow Beam light distribution

High temperatures, high hygiene requirements, pressure cleaning, use of special cleaning agents

Challenging environment and demanding visual tasks, high hygiene requirements, various substances in the air

Suitable product

CRAFT II plus

CRAFT II plus
CRAFT II plus FI (specially for the food sector)

CRAFT II plus

Temperature range

-40°C to +70°C

-40°C to +45°C

-20°C to +70°C

Cover/material

CH (mainly because of oily conditions and release agents)

PM (to -10°C)
PC, CH (cold storage rooms to -40°C)

PM, PC, CH (depending on the substances in the air)

Certificates/ test results

Vibration resistance
LABS

HACCP
ECOLAB*

IK/IP protection

IK07, IP66

IK08, IP66

IK08, IP66

Product-specific notes per industry

Frequently used suspensions: AD/AW chain or wall mounting (due to temperatures and space situation regarding machines/cranes)

HACCP: guarantees that the luminaires are suitable for use in facilities and environments where food is produced

Advantage of the 3 materials: resistance to chemical substances such as acids, alkalis, halogens, solvents, fats and oils

*Details of the certificates available on request



[CRAFT II in our
Virtual Reality \(VR\)
demo](#)

SPORT



HALLS (DRY)

LOGISTICS



HALLS (LOGISTICS)



COLD CHAIN

Characteristics of setting in which luminaires are used

Ball-proof impact resistance, multifunctional use of sports halls; light distribution: Wide Beam Controlled Glare, Asymmetric Beam

High-ceilinged rooms, flexible shelving, risk of glare; light distribution: Narrow Beam for high shelving, Narrow Beam Controlled Glare

Low temperatures

Suitable product

CRAFT II plus

CRAFT II performance (e.g. via TECTON Adapter)
CRAFT II plus XL (100 000)

CRAFT II plus
CRAFT II performance (-20°C)
CRAFT II plus FI (specially for the food sector)

Temperature range

0°C to +50°C

0°C to +35°C

-40°C to 0°C

Cover/material

PC

PC

PC

Certificates/ test results

BPIR (download certificate)
Flicker-free

Vibration resistance

HACCP

IK/IP protection

IK08, IP66

IK08, IP66

IK08, IP66

Product-specific notes per industry

TV colour rendering (CRI 90) available on request; ceiling mounting reduces the amount of installation work required and distance to ceiling (suitable for ball-proof impact resistance [BPIR])

Suitable sensors: e.g. microwave sensor with corridor function (MWCF) and PIR (DALI with daylight and motion detection)*

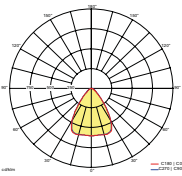
Simplified maintenance (quicker access to the components from below)

*Coming soon


[CRAFT II in our Virtual Reality \(VR\) demo](#)

Taskoriented concept of EN12464-1 means adjusted light situations (distribution, luminous flux, colour) for various tasks. CRAFT II offers many light distributions to meet those requirements.

LUMINOUS INTENSITY DISTRIBUTION CURVES FOR DIVERSE SPACES AND VISUAL TASKS

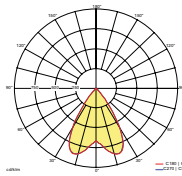


Wide Beam (WB)

Production sites (6 to 15m height)

Warehouse with large distances between shelves

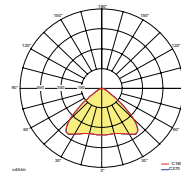
Sportshall general



Wide Beam Controlled Glare (WBCG)

Production sites (6 to 15m height) with higher requirements on perceived glare

Sportshall general with ceiling heights from 8 m and higher



Very Wide Beam (VWB)

Production halls up to 6m height

Sportshall with lower ceilings

REQUIREMENTS FOR LOGISTICS AND WAREHOUSES (EN 12464-1: 2021)

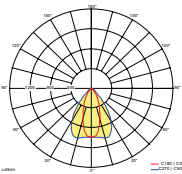
Type of task/ activity area	\bar{E}_m		U_o	R_a	R_{UGL}	$\bar{E}_{m,z}$	$\bar{E}_{m, wall}$	$\bar{E}_{m, ceiling}$
	required*	modified**						
Unloading/loading area	200 lx	300 lx	0.40	80	25	50 lx	50 lx	30 lx
Packing/grouping area	300 lx	500 lx	0.50	80	25	100 lx	100 lx	30 lx
Configuration and rehandling	750 lx	1000 lx	0.60	80	22	150 lx	150 lx	30 lx
Open goods storage	200 lx	300 lx	0.40	80	25	50 lx	50 lx	30 lx
Rack storage								
- floor ¹	150 lx	200 lx	0.50	80	25			30 lx
- rack face ²	75 lx	100 lx	0.40	80				
Central logistics corridor (heavy traffic)	300 lx	500 lx	0.60	80	25	100 lx	100 lx	30 lx
Automated zones (unmanned)	75 lx	100 lx	0.40	80	25			

* minimum value

** considers common context modifiers

Specific requirements:

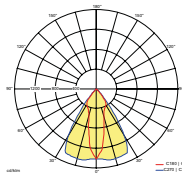
- 1 Illuminance at floor level, R_{UGL} only in the viewing direction of the luminaire
- 2 On aisle rack face, band of 1,0m may be excluded from the perimeter



Narrow Beam (NB)

Warehouses with focus on a balanced light between horizontal and vertical planes (6m and higher)

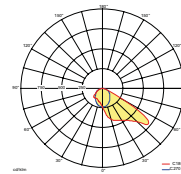
Very high production sites from 12m and higher



Narrow Beam Controlled Glare (NBCG)

Warehouses with higher requirements on perceived glare

Optimisation of horizontal illuminance



Asymmetric Beam (AB)

Specific task lighting (e.g. work at machines)

Professional sports, arrangement in the peripheral area along the main axis

IN COMPARISON



CRAFT II NB

- + higher vertical illuminances
- + slightly better for cylindrical and ceiling illuminance
- + good luminous efficacy (lm/W)
- less efficient related to the area size (lm/m²/100lx)



CRAFT II NBCG

- + efficient on horizontal planes (less luminaires)
- + cutted luminance for flat angles (above 30° related to vertical)
→ less glare looking along the main axis
- lower luminous efficacy (lm/W)
- reduced vertical illuminance
- High luminance levels with a steep view under the luminaire