

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

Bi-colour option available on request

Higher luminous efficacy up to 195lm/W, reducing energy costs

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

Extreme Narrow Beam (XNB) for optimal illumination between high shelves

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

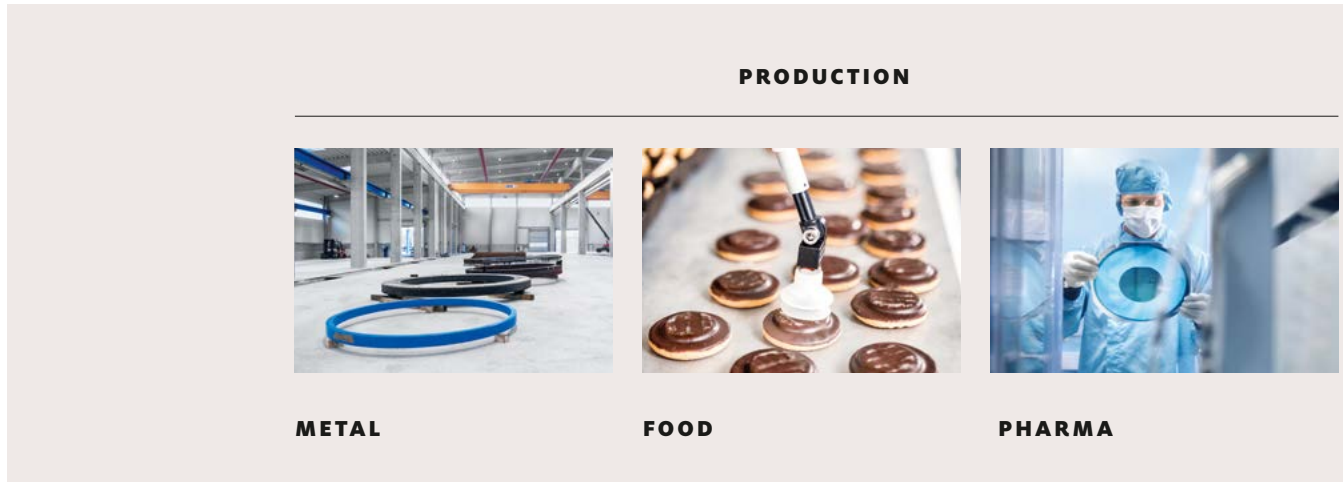
IP66 and IP69






Temperature range from -40 °C to +70 °C

Long life time (L95 100000h)



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



	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 / Fraunhofer	 HACCP  ECOLAB*	 DLG certificate (agriculture)
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

LOGISTICS



HALLS (DRY)



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, Extreme 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



Vibration resistance



HACCP



Flicker-free

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), PIR (DALI with daylight and motion detection)*, PIRILD (Standalone PIR), PIRBC (PIR and Bluetooth Wireless)

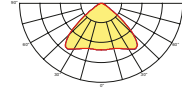
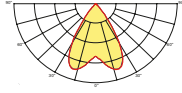
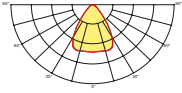
Simplified maintenance (quicker access to the components from below)

*Coming soon


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

Task-oriented 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 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			

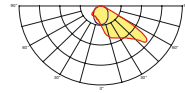
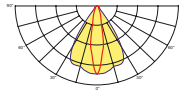
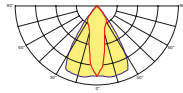
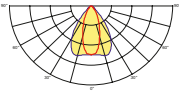
* minimum value

** 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)

Extreme Narrow Beam (XNB)

**Narrow Beam
Controlled Glare (NBCG)**

Asymmetric Beam (AB)

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

For optimal illumination between high shelves (over 12m)

Warehouses with higher requirements on perceived glare

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

Very high production sites from 12m and higher

Focus on floor lighting

Optimisation of horizontal illuminance

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

OVERVIEW OF AVAILABLE SENSORS AND FUNCTIONS FOR CRAFT II

Description	MICROWAVE SENSOR	
	MWS with motion detector to switch on/off	MWCF with motion sensor and CorridorFUNCTION
Available for CRAFT II Performance	●	●
Available for CRAFT II Plus	●	●
DETECTION RANGE & TYPE		
Motion detection height 5 to 12m	●	●
Motion detection height 8 to 16m		
Ambient light monitoring		
MECHANICAL INTEGRATION		
Internal sensor (below the middle cover)	●	●
External box for the sensor		
basicDIM Wireless module integrated		
External DALI Power supply required		
External Application Controller required (as LITECOM)		
Internal Application Controller	●	●
COMMISSIONING & CONTROL (DALI/Wireless)		
Control other luminaires via basicDIM Wireless (4remote BT App)		
Control other luminaires via DALI lines		
Activate other luminaires via L' output	●	●
Control luminaire with IR remote control (REMOTECONTROL IR6)		
IR Remote control for commissioning (basicDIM ILD G2 Programmer)		
SET-UP OF SENSOR & CONTROL PARAMETER		
Set-up the control parameters via basicDIM Wireless		
Set-up the control parameters via DALI-2 App. Cont. (as LITECOM)		
Set-up the sensor sensitivity via DIPswitches	●	●
Set-up manually the sensor motion detection heights		
LUMINAIRE INFORMATION		
CorridorFUNCTION activated		●
Name of sensor	smartSWITCH HF 12DP MB S f	smartSWITCH HF 12DP MB S f
Article code of sensor (TRIDONIC)	28003498	28003498
IP of the system	IP66	IP66
IK of the system	IK08 (PC)	IK08 (PC)
Operation temperature	-20 °C to max 60 °C	-20 °C to max 60 °C
Number of external electrical poles	5	5
Function Pole 1 - 3	L,N,PE	L,N,PE
Function Pole 4 - 5	L' out, [not used]	L' out, [not used]
Energy-saving potential	up to 65%	up to 65%

CRAFT II

MWDABC with motion sensor and basicDIM Wireless	PASSIVE INFRARED SENSOR			NO SENSOR BC with basicDIM Wireless without sensor
	PIR with motion sensor and light detection	PIRBC with motion sensor and light detection and basicDIM Wireless	PIRILD with motion sensor and light detection including internal application controller (standalone)	
●	●	●	●	●
●				●
●				
	●	●	●	
	●	●	●	
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			●	
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			●	
●		●		●
	●			
●		●	●	
smartSWITCH HF 12DP MB S f	MSensor G3 PIR 16DPI WH	MSensor G3 PIR 16DPI WH	basicDIM ILD G2 16DPI WH	
28003498	28002234	28002234	28003393	
IP66	IP50	IP50	IP50	IP66
IK08 (PC)	IK03	IK03	IK03	IK08(PC)
0 °C to max 45 °C	-20 °C to max 50 °C	0 °C to max 45 °C	0 °C to max 45 °C	-20 °C to max 45 °C
3	5	3	5	3
L,N,PE	L,N,PE	L,N,PE	L,N,PE	L,N,PE
-	DA, DA (8mA)	-	DA, DA Control (including supply). See TRIDONIC datasheet.	-
up to 70%	up to 85%	up to 80%	up to 75%	up to 60%

T H E L I G H T



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