



## HIGH BAY/LOW BAY INDUSTRIAL LIGHT

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HIGH EFFICIENCY  
LED INDUSTRIAL LUMINAIRES  
MADE IN THE EU

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**luxtella**

# TECHNICAL DATA

Luxtella industrial luminaires are technical luminaires that are designed to fulfil the most demanding lighting conditions to illuminate industrial areas like warehouses and production halls.

## Mechanical characteristics

- Housing made of casted and extruded aluminium
- As a standard equipped with 3 m connecting electrical cable, other lengths are available upon request
- Finish made of anodisation and dust painted with epoxy paint thermal treatment to ensure long term protection against all weather conditions. RAL 9006 or other upon request
- All screws are made of stainless steel
- All gaskets are made of ozone and UV resistant silicone for IP66 protections (Flexible ceiling connector is IP61). IK10 impact resistance
- Different types of fixation



## Electrical characteristics

- 220 - 240 V (50-60 Hz) input
- 110 - 277 V input voltage range upon request
- Power factor at full load more than 0,95
- Total harmonic distortion (THD) 8 %
- Up to 94% driver efficiency at full load with the Philips Xitanium LED driver
- Dimming options: Lumistep, Line switch, DALI, 1 - 10 V and Dynadimmer (autonomous dimming) upon request
- 6 kV differential mode and 8 kV common mode standard surge protection. 10kV surge protection upon request
- Protection class I or protection class II
- Upon request we can program our lamps for DALI smart lighting and supply additional switches, sensors, etc.



## LEDs



We use highly efficient & reliable Cree LEDs which ensure long term operation for the lifetime of the luminaire and highest lm/w efficiency in the industry. In the spreadsheet below the total – system W is stated. Below power (W) of lamp is a result in the working mode of lamp (app. 1.5 h after a lamp is turned on). Below lumen is LED lumen. System lumen is available for each optic in IES files and is lower than the LED lumen by app. 5 % (depending on the type of lens). Different colour temperatures are available upon request. The below results in the table are written for 4000 K and 3000 K (average results).

No. LED	Current [mA]	Sys power [W]	4000K [lm]	3000K [lm]
12	500	20	2900	2750
	600	24	3350	3200
	700	27	3800	3600
	800	31	4200	4000
	900	35	4600	4350
	1000	40	4950	4700
24	600	45	6650	6300
	700	53	7500	7150
	800	60	8350	7900
	900	68	9100	8650

No. LED	Current [mA]	Sys power [W]	4000K [lm]	3000K [lm]
24	1000	76	9800	9350
36	700	78	11200	10600
	800	89	12350	11800
	900	101	13500	12850
	1000	113	14600	13800
48	800	117	16200	15400
	900	132	17700	16850
	1000	148	19100	18150
60	800	146	19900	18900
	900	165	21700	20650

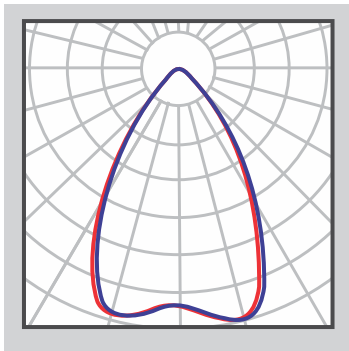
Other higher lumens and powers available upon request.

# OPTICAL DATA

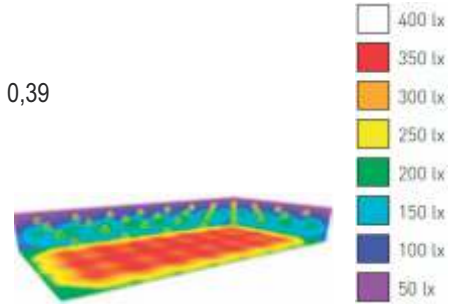
## Optical characteristics

- As a standard we are using PMMA that is 100 % UV resistant which prevents yellowing over the entire life time of the lenses
- Polycarbonate lenses ensure high impact resistance
- Photometric IES files are available upon request

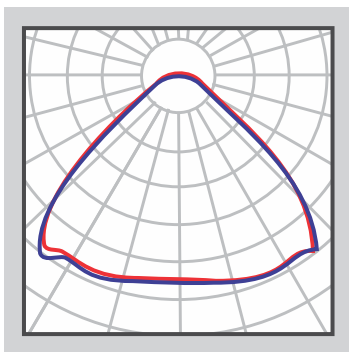
**Optic I, 95 % optical efficiency, 67 deg viewing angle**  
Narrow symmetrical beam, suitable for very high installations



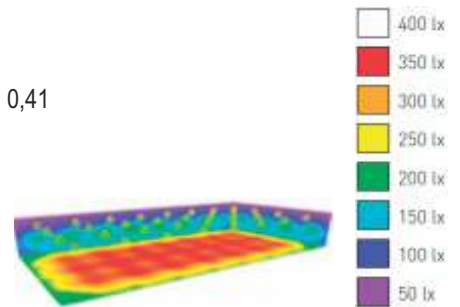
- Luminaire installation height: 10 m
- Number of luminaires: 50 pcs
- Luminaire wattage: 62 W
- Avg. illuminance at floor level: 300 lx
- Illuminance uniformity on the floor level (u0): typical 0,39
- Total power consumption: 3,1 kW (2,36 W/m)



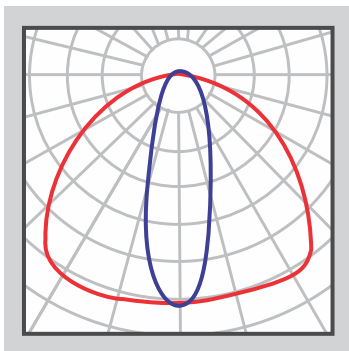
**Optic J, 92 % optical efficiency, 103 deg viewing angle**  
Wide symmetrical beam, suitable also for lower installations heights



- Luminaire installation height: 6 m
- Number of luminaires: 32 pcs
- Luminaire wattage: 92 W
- Avg. illuminance at floor level: 300 lx
- Illuminance uniformity on the floor level (u0): typical 0,41
- Total power consumption: 2,94 kW (2,24 W/m)



**Optic K, 91 % optical efficiency, 63/115 deg viewing angle**  
Aisle asymmetrical beam, suitable to illuminate isles between warehouse racks and corridors.



- Luminaire installation height: 8 m
- Luminaire spacing: 8,3 m
- Number of luminaires: 6 pcs
- Shelf height: 6 m
- Distance between shelves: 2 m
- Luminaires are installed in the aisle: Centerline
- Fixture luminous flux: 3000 lm
- Eav: 38 lx, Emin: 32 lx, Emax: 41 lx u0: 0.839



Above are just calculation examples, please send us specific data and we will make a lighting study for you!



# MECHANICAL DATA

## 12 LED lamp

PN with letter K	PN with letter T	PN with letter C
Gross weight: 5,7 kg Net weight: 5,1 kg Box dimension: 60 x 30 x 20 cm Full euro pallet dimension: 32 units, 80 x 120 x 150 cm	Gross weight: 5,6 kg Net weight: 5,0 kg Box dimension: 60 x 30 x 20 cm Full euro pallet dimension: 32 units, 80 x 120 x 150 cm	Gross weight: 4,7 kg Net weight: 4,4 kg Box dimension: 54 x 30 x 10 cm Full euro pallet dimension: 64 units, 80 x 120 x 150 cm

## 24, 36, 72 LED lamp

PN with letter K	PN with letter T	PN with letter C
Gross weight: 7,4 kg Net weight: 6,8 kg Box dimension: 60 x 30 x 20 cm Full euro pallet dimension: 32 units, 80 x 120 x 150 cm	Gross weight: 7,3 kg Net weight: 6,7 kg Box dimension: 60 x 30 x 20 cm Full euro pallet dimension: 32 units, 80 x 120 x 150 cm	Gross weight: 7,0 kg Net weight: 6,7 kg Box dimension: 75 x 30 x 20 cm Full euro pallet dimension: 48 units, 80 x 120 x 150 cm

Operating temperature from -40°C up to 55°C.

Our standard warranty (acc. warranty conditions) is 5 years but the warranty may be extended for up to 10 years.



The manufacturer reserves all rights to make changes in the materials and components used in its products. All data is subject to change without prior notice.



Company certified with



Luxtella is the brand name of luminaires produced by

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