HIGH BAY/LOW BAY INDUSTRIAL LIGHT
LK, LC, LT

HIGH EFFICIENCY LED INDUSTRIAL LUMINAIRES
MADE IN THE EU

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TECHNICAL DATA

Luxtella industrial luminaires are technical luminaires that are designed to fulfill 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).

<table>
<thead>
<tr>
<th>No. LED</th>
<th>Current [mA]</th>
<th>Sys power [W]</th>
<th>4000K [lm]</th>
<th>3000K [lm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>500</td>
<td>20</td>
<td>2900</td>
<td>2750</td>
</tr>
<tr>
<td></td>
<td>600</td>
<td>24</td>
<td>3350</td>
<td>3200</td>
</tr>
<tr>
<td></td>
<td>700</td>
<td>27</td>
<td>3800</td>
<td>3600</td>
</tr>
<tr>
<td></td>
<td>800</td>
<td>31</td>
<td>4200</td>
<td>4000</td>
</tr>
<tr>
<td></td>
<td>900</td>
<td>35</td>
<td>4600</td>
<td>4350</td>
</tr>
<tr>
<td></td>
<td>1000</td>
<td>40</td>
<td>4950</td>
<td>4700</td>
</tr>
<tr>
<td>24</td>
<td>600</td>
<td>45</td>
<td>6650</td>
<td>6300</td>
</tr>
<tr>
<td></td>
<td>700</td>
<td>53</td>
<td>7500</td>
<td>7150</td>
</tr>
<tr>
<td></td>
<td>800</td>
<td>60</td>
<td>8350</td>
<td>7900</td>
</tr>
<tr>
<td></td>
<td>900</td>
<td>68</td>
<td>9100</td>
<td>8650</td>
</tr>
<tr>
<td>36</td>
<td>700</td>
<td>76</td>
<td>9800</td>
<td>9350</td>
</tr>
<tr>
<td></td>
<td>800</td>
<td>98</td>
<td>12350</td>
<td>11800</td>
</tr>
<tr>
<td></td>
<td>900</td>
<td>101</td>
<td>13500</td>
<td>12850</td>
</tr>
<tr>
<td></td>
<td>1000</td>
<td>113</td>
<td>14600</td>
<td>13800</td>
</tr>
<tr>
<td>48</td>
<td>800</td>
<td>117</td>
<td>16200</td>
<td>15400</td>
</tr>
<tr>
<td></td>
<td>900</td>
<td>132</td>
<td>17700</td>
<td>16850</td>
</tr>
<tr>
<td></td>
<td>1000</td>
<td>148</td>
<td>19100</td>
<td>18150</td>
</tr>
<tr>
<td>60</td>
<td>800</td>
<td>146</td>
<td>19900</td>
<td>18900</td>
</tr>
<tr>
<td></td>
<td>900</td>
<td>165</td>
<td>21700</td>
<td>20650</td>
</tr>
</tbody>
</table>

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 lifetime 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: 36 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

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

#### 24, 36, 72 LED lamp

<table>
<thead>
<tr>
<th>PN with letter K</th>
<th>PN with letter T</th>
<th>PN with letter C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross weight: 7,4 kg</td>
<td>Gross weight: 7,3 kg</td>
<td>Gross weight: 7,0 kg</td>
</tr>
<tr>
<td>Net weight: 6,8 kg</td>
<td>Net weight: 6,7 kg</td>
<td>Net weight: 6,7 kg</td>
</tr>
<tr>
<td>Box dimension: 60 x 30 x 20 cm</td>
<td>Box dimension: 60 x 30 x 20 cm</td>
<td>Box dimension: 75 x 30 x 20 cm</td>
</tr>
<tr>
<td>Full euro pallet dimension: 32 units, 80 x 120 x 150 cm</td>
<td>Full euro pallet dimension: 32 units, 80 x 120 x 150 cm</td>
<td>Full euro pallet dimension: 48 units, 80 x 120 x 150 cm</td>
</tr>
</tbody>
</table>

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. The tolerance for all given data is 10%.

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Luxtella is the brand name of luminaires produced by

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