Product Name: 90W LED Flood Lights
Item No.: EFD-FL-90
Date: 2015.4.2

www.flyledlighting.com
email: Root-Yang@flyledlighting.com
Introduction

Material

- Patented fin aluminum heat-sink structure; High quality aluminum processing technique; Special surface treatment process; High brightness LED light source, high efficiency and long life power supply.

Applications

- Suitable for Warehouses, Production and logistics workshops, Retail stores, Theme restaurants Amusement parks, Indoor stadiums and public places, and other industrial and commercial lighting purposes.

Features

- LEDs from Bridgelux, Philips /CREE/LG/Osram optional with high thermal conductivity, good heat-radiation, small light decay, pure light, no ghosting, stable performance and quality advantages.

- Unique thermal management design low LED junction temperature effectively, ensure the lifespan of the light source and power.

- Extremely light weight for safety use and installation.

- Eco-friendly and energy saving, dust-proof, no radiation and emitting heat, no mercury, lead and other Pollution elements.

- High color rendering index to show the physical color rendering more real. Various colors is optional to meet the needs of different environments. Eliminating the repressed emotions caused by the traditional lamp in highor low color temperature, the light is visual comfort, and improve the work efficiency.

- Power by constant current and voltage, can work in wide voltage range AC90V-305V. Overcome the unstable on the light caused by ballast disturbance, noise pollution, avoid the stimulus work to eye fatigue.

- Using a special surface treatment process, new design on appearance. Simple installation, easy Disassembly, Wide range of application.

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Dimension

Unit: mm

Package

<table>
<thead>
<tr>
<th>Packing Size mm</th>
<th>Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>L  W  H</td>
<td>N.W/G. W</td>
</tr>
<tr>
<td>1Pc/ctn: 355 x 440 x 170</td>
<td>5.2/5.8kg</td>
</tr>
<tr>
<td>2Pc/ctn: 365 x 450 x 350</td>
<td>G. W: 12kg</td>
</tr>
</tbody>
</table>

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#### Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED Driver</td>
<td>Meanwell</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>90-305 VAC, 50/60 Hz</td>
</tr>
<tr>
<td>LED Chips</td>
<td>Bridgelux, Cree /Philips Optional</td>
</tr>
<tr>
<td>LED Chip QTY</td>
<td>81 pcs</td>
</tr>
<tr>
<td>LED Power /Total System Power</td>
<td>80 W/90 W</td>
</tr>
<tr>
<td>Led Luminous Efficiency</td>
<td>130-140lm /W</td>
</tr>
<tr>
<td>Light Lighting efficiency</td>
<td>≥120 lm/W</td>
</tr>
<tr>
<td>Led Initial Luminous Flux</td>
<td>10800 ± 5%Lm</td>
</tr>
<tr>
<td>Illuminance Uniformity</td>
<td>&gt;0.8</td>
</tr>
<tr>
<td>Color Temperature</td>
<td>3000K-7000K</td>
</tr>
<tr>
<td>Color Rendering Index</td>
<td>Ra ≥70</td>
</tr>
<tr>
<td>Light Distribution</td>
<td>Symmetric/Rectangle</td>
</tr>
<tr>
<td>Illuminance Design</td>
<td>LED+Reflector</td>
</tr>
<tr>
<td>LED Junction Temperature</td>
<td>≤70℃ (@ Ta=30℃)</td>
</tr>
<tr>
<td>Working /Storage Temperature</td>
<td>-25℃ ~ 40℃ / -25℃ ~ 65℃</td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP65</td>
</tr>
<tr>
<td>Net weight</td>
<td>5.2 Kg</td>
</tr>
<tr>
<td>Life-span</td>
<td>&gt;50000H</td>
</tr>
<tr>
<td>Power Cable</td>
<td>0.75mm²</td>
</tr>
</tbody>
</table>

**Remark:** The light parameters may differ between different color temperature, tolerances ≤ 5%.

The testing is based on Bridgelux LED 5500K.
Photometric Distribution:

### Beam Angle 15x15°

- **90w 15°15 degree beam angle:**
  - M | LUX | φM |
  - 4  | 1550 | 1.6 |
  - 6  | 644  | 2.1 |
  - 10 | 410  | 2.6 |

### Beam Angle 24x24°

- **90w 24°24 degree beam angle:**
  - M | LUX | φM |
  - 4  | 1150 | 1.6 |
  - 6  | 717  | 3.2 |
  - 8  | 405  | 4.2 |
  - 10 | 259  | 5.3 |

### Beam Angle 38x38°

- **90w 38°38 degree beam angle:**
  - M | LUX | φM |
  - 4  | 749  | 4.6 |
  - 6  | 333  | 6.9 |
  - 8  | 187  | 9.2 |
  - 10 | 119  | 11.5|

### Beam Angle 60x60°

- **90w 60°60 degree beam angle:**
  - M | LUX | φM |
  - 4  | 543  | 8.0 |
  - 6  | 240  | 12.0|
  - 8  | 134  | 16.0|
  - 10 | 86   | 20.0|

### Beam Angle 90x90°

- **90w 90°90 degree beam angle:**
  - M | LUX | φM |
  - 4  | 2578 | 1.1 |
  - 6  | 1150 | 1.6 |
  - 8  | 644  | 2.1 |
  - 10 | 410  | 2.6 |
Installation Guideline

- Take out the lights from packing box.
- Fix the light on mounting frame and keep stable placement. For safety, make sure the power cables are connected by electricians. The power cord is 1.0MM² triple shield wire, the brown is live wire, blue is neutral wire, and yellow/green is earth wire.

Maintenance / Repairing Instructions:

- Make sure the power has been turned off before maintenance or repairing.
- Clean the glass cover regularly to maintain high transmission of light.
- Clean up the dust from the glass cover and heat-sink regularly to keep sound heat dispersion.
- Be careful not to use water or corrosive solution for cleaning, preferably with a dry cloth.
- When install or replace power supply, directly open the back cover with a screwdriver, then remove the power supply.
- On DC power output, the red cable corresponds to the positive power polarity, and black corresponds to the negative. Pay attention do not reverse the positive and the negative in any circumstance.