The L and T Series offers illumination performance featuring advanced LED optical design and multiple light distribution options.

L & T Series

FEATURES & BENEFITS
- Incorporated with an adjustable slip fitter, lighting fixtures can be mounted onto a 2 3/8” (60mm) O.D. bollard.
- Certified according to 1000h salt-spray testing standard ASTM B117 / ISO 9227:2012 due to minimum 100µm corrosion resistant polyester powder coating.
- Human-centered modular design allows ease of installation, replacement and maintenance.
- Unmatched thermal management and proven lumen maintenance ratio.
- Unbeatable versatility that can be served as flood light, area light, wall light and many more applications.
- Improved illumination performance and excellent optics control.
- 15+ light distributions are available for virtually any application.
- Multiple smart lighting control options, e.g. motion sensor, photocell, DALI, 1-10V.
- Standard 10 or optional 5 year limited warranty.

DIMENSIONAL DRAWING

L Series

T Series

TECHNICAL PARAMETERS

<table>
<thead>
<tr>
<th>Power</th>
<th>30 – 300W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input</td>
<td>120-277VAC or 277-480VAC</td>
</tr>
<tr>
<td>IP</td>
<td>Optional</td>
</tr>
<tr>
<td>SPD</td>
<td>Optional</td>
</tr>
<tr>
<td>Certificate/Qualification</td>
<td>UL/CSA/UL2121/UN5010/USA</td>
</tr>
<tr>
<td>DALI</td>
<td>Optional</td>
</tr>
<tr>
<td>B-50W</td>
<td>Optional</td>
</tr>
<tr>
<td>Photocell</td>
<td>/</td>
</tr>
<tr>
<td>Smart Control</td>
<td>/</td>
</tr>
<tr>
<td>Optic (D85mA)</td>
<td>Type I, Type II, Type III, Type IV, Type V</td>
</tr>
<tr>
<td>Color Options</td>
<td>Black/Grey/Bronze/White</td>
</tr>
</tbody>
</table>

APPLICATIONS
- Parking, airport lighting
- Auto dealership lighting
- Municipal
- Restaurants
- Retail

USA Parking Area

USA Parking Area
**L & T Series**

### BRIEF SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>System Power</th>
<th>PID Markings</th>
<th>LEDs</th>
<th>SPA</th>
<th>Net Weight</th>
<th>Gross Weight</th>
<th>Dimensions (L x W x H, mm)</th>
<th>Carton Dimensions (L x W x H, mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A30</td>
<td>20W</td>
<td>90/90</td>
<td>10</td>
<td>30</td>
<td>350</td>
<td>950</td>
<td>115.8 x 39.5 x 34</td>
<td>132.5 x 45.5 x 50.5</td>
</tr>
<tr>
<td>A40</td>
<td>40W</td>
<td>90/90</td>
<td>10</td>
<td>30</td>
<td>350</td>
<td>1900</td>
<td>146.5 x 39.5 x 34</td>
<td>163.5 x 45.5 x 50.5</td>
</tr>
<tr>
<td>A50</td>
<td>60W</td>
<td>90/90</td>
<td>10</td>
<td>30</td>
<td>350</td>
<td>2850</td>
<td>177.5 x 39.5 x 34</td>
<td>204.5 x 45.5 x 50.5</td>
</tr>
<tr>
<td>A60</td>
<td>80W</td>
<td>90/90</td>
<td>10</td>
<td>30</td>
<td>350</td>
<td>3800</td>
<td>208.5 x 39.5 x 34</td>
<td>235.5 x 45.5 x 50.5</td>
</tr>
</tbody>
</table>

**LED PARKING LOT LIGHT**

### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MOUNTING</th>
<th>OPTIC LENS</th>
<th>CCT (K)</th>
<th>OPTIONAL COLOR</th>
<th>LIGHTING CONTROL</th>
<th>ACCESSORY INFO</th>
</tr>
</thead>
<tbody>
<tr>
<td>A30</td>
<td></td>
<td></td>
<td>5000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A40</td>
<td></td>
<td></td>
<td>5000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A50</td>
<td></td>
<td></td>
<td>6500</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A60</td>
<td></td>
<td></td>
<td>6500</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Example 1:** A30-3-L55-SOK-BK-00

**Example 2:** B40-T-55-SOK-BK-04

**Example 3:** CB0-L-55-SOK-BK-05

*Not required*

**10KA/30KA Surge Protection Device**

**Bucking/Back-Up**

**Safety Cable**

**130/270VAC, 50/60Hz, 50/60Hz**

---

**Example:** A30-3-L55-SOK-BK-00

**Example 2:** B40-T-55-SOK-BK-04

**Example 3:** CB0-L-55-SOK-BK-05
CUSTOMIZED SOLUTIONS

1. 3/5/7-pin NEMA Receptacle + Shorting Cap/Photocell

2. Motion Sensor

3. Left Throw & Right Throw Lens

4. Mini Photocell

5. Backlight Shield

6. Garden Light
A + series area light is perfect for outdoor area lighting, providing significant energy and maintenance savings while improving illumination performance.

**FEATURES & BENEFITS**

- Suitable for ultra-high lumen output applications typically reserved for high 1000w, 2000w and 4000w metal halides.
- Heat-sink made from hollow extruded aluminum with corrugated side profile outperforms traditional fin-type heatsinks, therefore maximizing lumen maintenance.
- Lightweight and thin-profile design minimizes wind loads from the sides, lowering pole sway.
- Vibration tests passed as per IEC/EN standards.
- Certified according to 1000h salt-spray testing standard ASTM B117 / ISO 9227:2012 due to minimum 100μm corrosion resistant polyester powder coating.
- Proven IP67 ingress protection and IK08 mechanical impact resistance rated.
- Adjustable spigot that mounts to a horizontal or vertical* (60mm) O.D. tenon. Tenon length must be a minimum of 4.72” (120mm).
- 15+ light distributions are available for virtually any application.
- Standard 10 or optional 5 year limited warranty.

**DIMENSIONAL DRAWING**

**TECHNICAL PARAMETERS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>450-950W</td>
</tr>
<tr>
<td>Input</td>
<td>120-277VAC or 347-480VAC</td>
</tr>
<tr>
<td>PF</td>
<td>&gt;0.95</td>
</tr>
<tr>
<td>TMI</td>
<td>&lt;0.5% (120-277VAC)</td>
</tr>
<tr>
<td>LAS</td>
<td>&gt;30,000</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C ~ +80°C</td>
</tr>
<tr>
<td>Typical Efficiency</td>
<td>140LM/W</td>
</tr>
<tr>
<td>ANSI/CET</td>
<td>5000K/6000K/6500K/7300K</td>
</tr>
<tr>
<td>Max CRI</td>
<td>70° or 90° or 95</td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP67</td>
</tr>
<tr>
<td>SPD</td>
<td>Optional</td>
</tr>
<tr>
<td>DALLI</td>
<td>Optional</td>
</tr>
<tr>
<td>0-10V</td>
<td>Optional</td>
</tr>
<tr>
<td>Photocell</td>
<td>Optional</td>
</tr>
<tr>
<td>Smart Control</td>
<td>/</td>
</tr>
<tr>
<td>Optic ( Dichroic)</td>
<td>Types: Type I, Type II, Type III, Type IV, Type V</td>
</tr>
<tr>
<td>Color Options</td>
<td>Black/Grey/Bronze/White</td>
</tr>
</tbody>
</table>

**APPLICATIONS**

- Airport
- Auto dealership
- Architecture lighting
- Municipal, parking
- Restaurants
- Retail
- Industrial
- Sports
- Agriculture

Australia

Australia
# LED AREA LIGHT

## A + Series

### BRIEF SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>System Power</th>
<th>LED MAKER</th>
<th>Leds</th>
<th>EPA</th>
<th>Net Weight</th>
<th>Gross Weight</th>
<th>Dimensions (L x W x H)</th>
<th>Carton Dimensions (L x W x H)</th>
<th>Luminous Flux</th>
<th>Lumen/E</th>
<th>IP65/67</th>
</tr>
</thead>
<tbody>
<tr>
<td>E450</td>
<td>485W</td>
<td>6</td>
<td>216</td>
<td>0.670kg</td>
<td>18.9kg (50.35kg)</td>
<td>28.6kg (65.48kg)</td>
<td>75.5 x 345 x 140mm</td>
<td>123 x 193 x 190mm</td>
<td>52800 lumen</td>
<td>58200 lumen</td>
<td>58200 lumen</td>
</tr>
<tr>
<td>E650</td>
<td>485W</td>
<td>8</td>
<td>288</td>
<td>0.750kg</td>
<td>22.6kg (58.50kg)</td>
<td>34.6kg (75.48kg)</td>
<td>98.5 x 225 x 170mm</td>
<td>133 x 273 x 200mm</td>
<td>80630 lumen</td>
<td>77400 lumen</td>
<td>77400 lumen</td>
</tr>
<tr>
<td>E750</td>
<td>482W</td>
<td>10</td>
<td>360</td>
<td>0.868kg</td>
<td>27.3kg (63.25kg)</td>
<td>39.3kg (86.78kg)</td>
<td>80.0 x 240 x 170mm</td>
<td>111 x 298 x 210mm</td>
<td>106516 lumen</td>
<td>96200 lumen</td>
<td>96200 lumen</td>
</tr>
<tr>
<td>E900</td>
<td>364W</td>
<td>12</td>
<td>432</td>
<td>0.903kg</td>
<td>29.9kg (65.49kg)</td>
<td>39.9kg (89.29kg)</td>
<td>62.7 x 172.0 x 100mm</td>
<td>84.4 x 242.7 x 130mm</td>
<td>51560 lumen</td>
<td>15500 lumen</td>
<td>15500 lumen</td>
</tr>
</tbody>
</table>

### ORDERING INFORMATION

- **MODEL (Nominal Power):**
  - E450 485W
  - E650 485W
  - E750 482W
  - E900 364W

- **OPTIC LENS:**
  - 1M: Type I Medium
  - 2M: Type II Medium
  - 3M: Type III Medium
  - 5L: Type III Long

- **COLOR CODE:**
  - 30K Black (RAL 9005)
  - 40K Grey (RAL 7035)
  - 50K Grey (RAL 8014)
  - 75K White (RAL 9010)

- **LENSING CONTROL:**
  - 00: Non-reversable
  - 04: DALI
  - 05: 0-10V Dimming

- **ACCESSORY INFO:**
  - BK: Black
  - GR: Grey
  - BZ: Bronze
  - WH: White

- **EXAMPLES:**
  - Example 1: E900-50-SOK-GR-00
  - Example 2: F750-SU-50X-BK-05
CUSTOMIZED SOLUTIONS

1. 3/5/7-pin NEMA Receptacle + Shorting Cap/Photocell

2. Separate Driver Module
PHOTOMETRICS

1M
Type I
Medium
Typical Use:
Industrial
Street/Roadside

2M
Type II
Medium
Typical Use:
Street/Roadside

3M
Type III
Medium
Typical Use:
Street/Roadside

3L
Type III
Long
Typical Use:
Street/Roadside

4S
Type IV
Short
Typical Use:
Street/Roadside

4M
Type IV
Medium
Typical Use:
Street/Roadside
5U
Average beam angle: 10°
Typical Use: Stadium

5V
Average beam angle: 25°
Typical Use: Stadium

5W
Average beam angle: 40°
Typical Use: Architectural

5S
Average beam angle: 60°
Typical Use: Industrial

5M
Average beam angle: 90°
Typical Use: Industrial

5L
Average beam angle: 120°
Typical Use: Gas Station
**5X**
Average beam angle: 150°
Typical Use: Parking Structure

**5D**
Diffused
Typical Use: Industrial
<table>
<thead>
<tr>
<th>Product Specifications</th>
<th>Dimensional Drawing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No.</td>
<td></td>
</tr>
<tr>
<td>#1</td>
<td><img src="image1" alt="Image" /></td>
</tr>
<tr>
<td>#2</td>
<td><img src="image2" alt="Image" /></td>
</tr>
<tr>
<td>#3</td>
<td><img src="image3" alt="Image" /></td>
</tr>
<tr>
<td>#4</td>
<td><img src="image4" alt="Image" /></td>
</tr>
<tr>
<td>#5</td>
<td><img src="image5" alt="Image" /></td>
</tr>
<tr>
<td>#6</td>
<td><img src="image6" alt="Image" /></td>
</tr>
</tbody>
</table>

**Product Specifications**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Image</th>
<th>Dimensional Drawing</th>
</tr>
</thead>
<tbody>
<tr>
<td>#7</td>
<td><img src="image7" alt="Image" /></td>
<td></td>
</tr>
<tr>
<td>#8</td>
<td><img src="image8" alt="Image" /></td>
<td></td>
</tr>
<tr>
<td>#9</td>
<td><img src="image9" alt="Image" /></td>
<td></td>
</tr>
<tr>
<td>#10</td>
<td><img src="image10" alt="Image" /></td>
<td></td>
</tr>
<tr>
<td>#11</td>
<td><img src="image11" alt="Image" /></td>
<td></td>
</tr>
<tr>
<td>#12</td>
<td><img src="image12" alt="Image" /></td>
<td></td>
</tr>
</tbody>
</table>
FEATURES
Adapted to SSL outdoor lighting, the SPD277 and SPD480 surge protection device provides single phase protection for line/neutral, line/ground and neutral/ground in accordance with IEEE C62.41 2002C. High. The SPD277 and SPD480 small size corresponds to the current design requirements for the new technology luminaires, like a LED light engine in outdoor lighting.

ELECTRICAL DIAGRAM

DIMENSIONAL DRAWING

BRIEF SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>SPD277-50</th>
<th>SPD277-20</th>
<th>SPD480-50</th>
<th>SPD480-20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage Input (VAC)</td>
<td>120-277</td>
<td>120-277</td>
<td>120-277</td>
<td>120-277</td>
</tr>
<tr>
<td>Frequency (Hz)</td>
<td>50-60</td>
<td>50-60</td>
<td>50-60</td>
<td>50-60</td>
</tr>
<tr>
<td>Clamping Voltage (V)</td>
<td>125</td>
<td>125</td>
<td>125</td>
<td>125</td>
</tr>
<tr>
<td>Maximum Energy (Joules)</td>
<td>260</td>
<td>260</td>
<td>260</td>
<td>260</td>
</tr>
<tr>
<td>Maximum Peak Current (A)</td>
<td>15A (8/20μs standard wave)</td>
<td>20A (6/20μs standard wave)</td>
<td>25A (8/20μs standard wave)</td>
<td>30A (8/20μs standard wave)</td>
</tr>
<tr>
<td>Wiring</td>
<td>16 Gauge Stranded Wire, 208V, 600V</td>
<td>16 Gauge Stranded Wire, 208V, 600V</td>
<td>16 Gauge Stranded Wire, 208V, 600V</td>
<td>16 Gauge Stranded Wire, 208V, 600V</td>
</tr>
<tr>
<td>Mini Connections</td>
<td>Black and white: 16 Gauge stranded 18 gauge exposed wire red and black</td>
<td>Black and white: 16 Gauge stranded 18 gauge exposed wire red and black</td>
<td>Black and white: 16 Gauge stranded 18 gauge exposed wire red and black</td>
<td>Black and white: 16 Gauge stranded 18 gauge exposed wire red and black</td>
</tr>
<tr>
<td>Mounting Hole</td>
<td>9/16 in.</td>
<td>9/16 in.</td>
<td>9/16 in.</td>
<td>9/16 in.</td>
</tr>
</tbody>
</table>

PHOTOCELL

- ANSI C136.10-2010 Twist Lock
- Time Delay 30"-120 seconds
- Temperature compensate
- Various Enclosures
- Lighting Arrestor Available
- 1" Photocell Deluxe Version Available

PHOTOCELL-mini

- SPST-NO
- Thermal switch
- Polycarbonate enclosure & eye
- 1/2" CO5 photocell
- 1/8"-18 thread nipple, with rubber gasket & plastic lock nut
- High grade leads available

FEATURES & BENEFITS
- The photocell PCA, PCB series is applicable to control the street lighting, garden lighting, passage lighting and doorway lighting automatically in accordance with the ambient natural lighting level. This product is designed on the basis of thermal-bimetallic structure that provides time delay over 30 seconds to avoid mis-operation due to spotlight or lighting during the night time. A temperature compensation system provides consistent performance regardless to the ambient temperature.
- This product provides three twist-lock terminals meeting the requirements of ANSI C136.10-2010 and the Standard for Plug-In, Locking Type Photocell for Use with Area Lighting UL-773, 4th Edition, dated Jan. 19th, 1995. PCA, PCB series has been listed by UL Inc for United States and Canada.
- Applicable to control passage lighting and doorway lighting automatically in accordance with the ambient lighting level.
- UL & C-US listed by UL Inc and is comply with the Standard for Non-Industrial Photocell Switches for lighting Control UL773A.
- Raintight, applicable for outdoor purpose

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Model No.</th>
<th>PCAL3E</th>
<th>PCAL3E</th>
<th>PCL13E</th>
<th>PCL23E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Rated Voltage</td>
<td>120-120V AC</td>
<td>120-120V AC</td>
<td>120-120V AC</td>
<td>120-120V AC</td>
</tr>
<tr>
<td>Rated Frequency</td>
<td>50/60Hz</td>
<td>50/60Hz</td>
<td>50/60Hz</td>
<td>50/60Hz</td>
</tr>
<tr>
<td>Rated Power (Watt)</td>
<td>100W</td>
<td>100W</td>
<td>150W</td>
<td>150W</td>
</tr>
<tr>
<td>Ambient Temperature</td>
<td>-20°C ~ +50°C</td>
<td>-20°C ~ +50°C</td>
<td>-20°C ~ +50°C</td>
<td>-20°C ~ +50°C</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>80%</td>
<td>80%</td>
<td>80%</td>
<td>80%</td>
</tr>
<tr>
<td>Overall Dimensions (mm)</td>
<td>97 × 160</td>
<td>97 × 160</td>
<td>97 × 160</td>
<td>97 × 160</td>
</tr>
<tr>
<td><strong>Material Grade (Watt)</strong></td>
<td>Black</td>
<td>Black</td>
<td>Black</td>
<td>Black</td>
</tr>
<tr>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td>Weight Approx.</td>
<td>60-80 g</td>
<td>60-80 g</td>
<td>60-80 g</td>
<td>60-80 g</td>
</tr>
</tbody>
</table>

Materials: Enclosure & Lens – High Impact UV stabilized Polycarbonate
Base – High Impact Polystyrene/Polycarbonate
Photocell – Cadmium Sulfide 0.3" with heat sink (Standard) / 1" (Deluxe)
ACCESSORIES

EMERGENCY POWER SUPPLY

MODEL: EPS16F

FEATURES
The EPS16F is a UL924 recognized constant current LED driver module emergency power supply. Under normal usage conditions, connecting the driver to power mains automatically charges the backup battery. Connected in normal configuration the LED driver can provide the required power output according to the wiring diagram. This system can be configured to provide a wide range of lumens output and power dissipation runtimes.

WIRING DIAGRAM

MODEL: EPS10AF

FEATURES
The EPS10AF is an programmable 40Watt LED driving / battery backup emergency lighting in a integrated all-in-one design. Programmable via external handheld device, it can be set to output from 250mA to 700mA, two modes can be set for emergency power. 180min @ 5W output or 90min @ 10W output.

WIRING DIAGRAM

TECHNICAL DATA

 EPS16F

- Input Voltage: 180-277VAC ±10%, 50/60Hz
- Input Current: 48mA Max
- Input Power: 2.32W Max
- Red Lead: 3A, 60V Max
- White/Black Lead: 180W Max
- Output Current: 180-700mA
- Output Rating: 180-700mA
- Surge Protection: UL1480 Class II
- Input Protection: Self Healing PTC
- Short Circuit Protection: Yes
- Ambient Temperature: 40°C @ 85°C Max
- Approach: Grade 2
- Emergency LED Driver: 110Vac

 EPS10AF

- Input Voltage: 180-277VAC, 50-60Hz
- Input Current: 8-48mA @ 230VAC, 0-24A @ 277VAC
- Input Power: 52W
- Power Factor: >0.9
- THD: <10%
- Driver Type: Constant Current
- Output Current: 250-700mA
- Output Voltage Range: 18-55VDC
- Output Protection: 600 Max / 50mA
- Output Power: 50W (50W/40W Mode / 50W/50W Mode)
- Battery Type: NP5096 & 6VDC
- Battery Capacity Available: 2200mAh
- Recharge Time: 12 Hours
- Number of Output Channels: 1
- Dimming Controller Type / Dimming Range:
  - 0-10V / 0-100%

ACV / kW

EPS16F 2.32W / Class 2
EPS10AF 52W / Class 2

Wiring Diagram