L1L Series
LED Luminaire
for Harsh and Hazardous Environments
L1L SERIES

- T-slot for easy mounting using a 5/16 or M8 bolt
- Clear or diffuse optic
- Removable Ceiling Flush Mount
- Tool-less entry for easy access to wiring chamber
- Bright Bi-colored LED indicator visually reports battery backup status
- Field Installed Eye-bolts for Safety Chain
- ¾” NPT on 3 sides with Available M20 hub option

3/4” NPT on 3 sides with Available M20 hub option
LED Fixtures

**Applications**
- Paint Spray Booths
- Chemical Facilities
- Waste Water Facilities
- Pipeline Pump Stations
- Ammunition Facilities
- Paint Manufacturing Plants
- Oil & Gas Refineries
- Fuel Transfer Facilities

**LED Features**
- Industry-Leading efficacy: up to 153 LPW
- Corrosion resistant copper-free housing
- Standard 5000K CCT @ 70 CRI minimum
- Option 3500K CCT @ 90 CRI minimum
- 20kV / 10kA surge protection on standard fixture
- T-slot mounting for the ultimate in easy mounting
- Self-testing and self-diagnostics on battery backup fixtures
- Angled LED boards for wider mounting distances
- Terminal blocks standard
- Low Profile
- Tool-less access to wiring chamber
- Diffuser option available
- 5 year fixture warranty

**LED vs Fluorescent Wattage & Delivered Lumens**

<table>
<thead>
<tr>
<th>LED PART NUMBER</th>
<th>LED WATT</th>
<th>LUMENS</th>
<th>L/W</th>
<th>LAMP WATTAGE</th>
<th>NUMBER AND STYLE OF LAMP</th>
<th>FLUORESCENT LUMENS</th>
<th>L/W</th>
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<tbody>
<tr>
<td>L1L730C</td>
<td>46.5</td>
<td>7,147</td>
<td>154</td>
<td>55W</td>
<td>1x55W BIAx</td>
<td>4,788</td>
<td>87</td>
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<td>L1L1030C</td>
<td>68.5</td>
<td>10,190</td>
<td>149</td>
<td>64W</td>
<td>2x32 T8</td>
<td>3,734</td>
<td>58.3</td>
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<tr>
<td>L1L1230C</td>
<td>80.4</td>
<td>11,500</td>
<td>143</td>
<td>80W</td>
<td>2x40W BIAx</td>
<td>6,300</td>
<td>78.8</td>
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<td>L1L1430C</td>
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<td>148</td>
<td>108W</td>
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<td>6,551</td>
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<td>11,500</td>
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<td>160W</td>
<td>4x40W BIAx</td>
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<td>180W</td>
<td>3x60 T12HO</td>
<td>11,302</td>
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<td>11,500</td>
<td>143</td>
<td>216W</td>
<td>4x54 T5HO</td>
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<td>80.4</td>
<td>11,500</td>
<td>143</td>
<td>240W</td>
<td>4x60 T12HO</td>
<td>14,935</td>
<td>62.2</td>
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</tbody>
</table>
L1L SERIES

CATALOG LOGIC

Example
= L1L 14,000 lumen output with 1,000 lumen output during 90 minute emergency operation, 120-277VAC, Diffuse Lens, 2 Fuses

Options
F – Single Fuse (1 pole)
FF – Two Fuses (2 pole - 2 hot legs)
LSP – Less Surge Protector
GH – Gray Housing
RH – Red Housing
TBL – Terminal Blocks Looping through Wiring
YH – Yellow Housing
3590 – 3500k LED @ 90 CRI

Specials – Contact Factory for custom configurations and options

Lens
D – Diffuse
C – Clear

DIMENSIONS

L1L – Series Constant
Fixture Lumen Output
7 – 7,000
10 – 10,000
12 – 12,000
14 – 14,000

Emergency Battery Backup
Blank – No Emergency
IE05 – 500 Lumen Range during 180 minute emergency
IE1 – 1000 Lumen Range during 90 minute emergency

Voltage
30 – 120V-277VAC 50/60Hz all models
33 – 347-480VAC non-emergency models only
34 – 125VDC-250VDC, 120-277VAC 50/60Hz non-emergency models only

Example
= L1L 14,000 lumen output with 1,000 lumen output during 90 minute emergency operation, 120-277VAC, Diffuse Lens, 2 Fuses

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Dimensions

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= L1L 14,000 lumen output with 1,000 lumen output during 90 minute emergency operation, 120-277VAC, Diffuse Lens, 2 Fuses

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3590 – 3500k LED @ 90 CRI

Specials – Contact Factory for custom configurations and options

Lens
D – Diffuse
C – Clear

Dimensions
HIGH WATTAGE SELF-TESTING EMERGENCY

Electronics Includes:

- Self-diagnostics monitors LED status, LED driver circuit, battery capacity and charger function and displays any fault detection by means of a flashing code.
- Self-Test feature automatically runs a 1 minute test once a month and an alternating 30-60 minute test once every 6 months. LED indicator provides visible fault detection and charging status.
- 15 minute re-transfer delay.
- Automatic unit transfer in brown-out conditions (below 80% of nominal AC input voltage).

<table>
<thead>
<tr>
<th>INDICATOR STATUS SIGNAL</th>
<th>DESCRIPTION OF STATUS SIGNAL</th>
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<tbody>
<tr>
<td>0.5s ON and 0.5s OFF</td>
<td>Battery disconnected</td>
</tr>
<tr>
<td>2.5s ON and 2.5s OFF</td>
<td>LED load disconnected</td>
</tr>
<tr>
<td>4.5s ON and 0.5s OFF</td>
<td>Driver in self-diagnostic mode</td>
</tr>
<tr>
<td>1.5s ON and 3.5s OFF</td>
<td>Battery needs to be replaced</td>
</tr>
<tr>
<td>0.5s ON and 4.5s OFF</td>
<td>Damaged driver, Replace</td>
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<tr>
<td>ON</td>
<td>Normal/Charging</td>
</tr>
<tr>
<td>OFF (LED Load ON)</td>
<td>Discharging / Emergency Operation</td>
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LED EMERGENCY LIGHTING DESIGN
### L1L SERIES

#### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>WEIGHT LBS./KG</th>
<th>WATTS</th>
<th>VOLTAGE</th>
<th>AMPS</th>
<th>DELIVERED LUMENS CLEAR/DIFFUSE</th>
<th>40°C</th>
<th>55°C</th>
<th>40°C</th>
<th>55°C</th>
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<tbody>
<tr>
<td>L1L730D</td>
<td>26/11.8</td>
<td>46</td>
<td>120-277</td>
<td>0.4-0.2</td>
<td>7,147 / 5,598</td>
<td>T6</td>
<td>T6</td>
<td>T6</td>
<td>T5</td>
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<td>L1L7E0530D</td>
<td>28/12.7</td>
<td>75</td>
<td>120-277</td>
<td>0.6-0.3</td>
<td>10,109 / 7,926</td>
<td>T6</td>
<td>T6</td>
<td>T6</td>
<td>T5</td>
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<tr>
<td>L1L733D</td>
<td>26/11.8</td>
<td>105-250</td>
<td>0.7-0.3</td>
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<tr>
<td>L1L734D</td>
<td>26/11.8</td>
<td>105-250</td>
<td>0.7-0.3</td>
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<tr>
<td>L1L1030D</td>
<td>26/11.8</td>
<td>88</td>
<td>120-277</td>
<td>0.7-0.3</td>
<td>11,500 / 8,919</td>
<td>T6</td>
<td>T6</td>
<td>T6</td>
<td>T5</td>
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<tr>
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<td>347-480</td>
<td>0.22-0.16</td>
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<tr>
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<td>26/11.8</td>
<td>105-250</td>
<td>0.7-0.3</td>
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<tr>
<td>L1L1230D</td>
<td>26/11.8</td>
<td>88</td>
<td>120-277</td>
<td>0.7-0.3</td>
<td>11,500 / 8,919</td>
<td>T6</td>
<td>T6</td>
<td>T6</td>
<td>T5</td>
</tr>
<tr>
<td>L1L1233D</td>
<td>26/11.8</td>
<td>347-480</td>
<td>0.3-0.2</td>
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<tr>
<td>L1L1234D</td>
<td>26/11.8</td>
<td>105-250</td>
<td>0.8-0.4</td>
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<td>L1L1430D</td>
<td>26/11.8</td>
<td>93</td>
<td>120-277</td>
<td>0.8-0.3</td>
<td>13,800 / 10,649</td>
<td>T6</td>
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<tr>
<td>L1L1433D</td>
<td>26/11.8</td>
<td>347-480</td>
<td>0.3-0.2</td>
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<td>L1L1434D</td>
<td>26/11.8</td>
<td>105-250</td>
<td>0.9-0.4</td>
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</tbody>
</table>

#### ACCESSORIES

- Ceiling Bracket Set
- Part Number LZCB
- Stainless Steel (natural finish)

- VMSC10 Safety Cable
- LAL-BC Beam Clamp

#### CABLE GLAND ORDERING OPTIONS

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>ENTRY THREAD SIZE (NPT)</th>
<th>BEND TYPE</th>
<th>CABLE ACCEPTANCE DETAILS</th>
<th>MAX LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCX1B</td>
<td>1/2&quot;</td>
<td>Straight</td>
<td>0.51&quot; (13.0) / 0.63&quot; (16.0)</td>
<td>2.10&quot; (53.3)</td>
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<tr>
<td>MCX1C</td>
<td>1/2&quot;</td>
<td>Straight</td>
<td>0.60&quot; (15.2) / 0.82&quot; (20.8)</td>
<td>2.40&quot; (61.0)</td>
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<td>MCX2</td>
<td>3/4&quot;</td>
<td>Straight</td>
<td>0.73&quot; (18.5) / 1.03&quot; (26.2)</td>
<td>2.60&quot; (66.0)</td>
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<tr>
<td>MCX14C</td>
<td>1/2&quot;</td>
<td>45°</td>
<td>0.60&quot; (15.2) / 0.82&quot; (20.8)</td>
<td>3.25&quot; (82.6)</td>
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<tr>
<td>MCX24</td>
<td>3/4&quot;</td>
<td>45°</td>
<td>0.73&quot; (18.5) / 1.03&quot; (26.2)</td>
<td>3.43&quot; (87.1)</td>
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<tr>
<td>MCX19C</td>
<td>1/2&quot;</td>
<td>90°</td>
<td>0.60&quot; (15.2) / 0.82&quot; (20.8)</td>
<td>2.51&quot; (63.8)</td>
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<tr>
<td>MCX29</td>
<td>3/4&quot;</td>
<td>90°</td>
<td>0.73&quot; (18.5) / 1.03&quot; (26.2)</td>
<td>2.61&quot; (66.3)</td>
</tr>
</tbody>
</table>

For entire series, please see Catalog Section F
Complementary Products from Killark

ALUMINUM CABLE CONNECTORS

For your armored and unarmored wiring installation, Killark’s MCX series offers everything needed for all harsh and hazardous environments.

The MCX features the following:

- 360° armor grounding spring
- Secure barrier seal between the conductors within the cable and gland assembly
- Types 3, 4X and IP66 environmental protection
- Copper-free aluminum construction
- Red anodized back-nut to indicate Hazardous location rated product
- Compact 45°/90° glands available for optimized configurations and decreased bend radius
- -50°C to 60°C operating temperatures
- ½” to 4” NPT sizes for wide range of cable installations

<table>
<thead>
<tr>
<th>SUITABLE ARMORED/METAL CLAD CABLE TYPES</th>
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</thead>
<tbody>
<tr>
<td><strong>AC</strong>-</td>
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<tr>
<td><strong>MC</strong>-</td>
</tr>
<tr>
<td><strong>RA</strong>-</td>
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<tr>
<td><strong>TECK</strong>-</td>
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