ABOUT THE SERIES

The award winning Lusio® Essentials Series is a family of high efficacy LED fixtures for high and medium bay applications that provide premium performance, quality and versatility. With nearly 50% lower power consumption compared to traditional fluorescent and HID light sources, these fixtures are designed to lower your total cost of ownership (TCO). Separated finned aluminum heat sinks promote heat transfer from the LEDs and extend their useful life.

INTENDED USE

<table>
<thead>
<tr>
<th>Target Mounting Heights</th>
<th>Comparable Traditional Light Source</th>
<th>Reduction in Power Consumption over Traditional Light Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>20-40 Feet (6-12m)</td>
<td>4-Lamp T5HO or 250W Metal Halide</td>
<td>53-62%</td>
</tr>
</tbody>
</table>

FIXTURE PERFORMANCE

<table>
<thead>
<tr>
<th>NJ: NO LENS</th>
<th>WATTAGE</th>
<th>LUMENS</th>
<th>EFFICACY</th>
</tr>
</thead>
<tbody>
<tr>
<td>4000K/5000K</td>
<td>113</td>
<td>13,160</td>
<td>116</td>
</tr>
<tr>
<td>CA: CLEAR ACRYLIC LENS</td>
<td>113</td>
<td>13,067</td>
<td>115</td>
</tr>
<tr>
<td>FP: FROSTED POLYCARBONATE LENS</td>
<td>113</td>
<td>11,613</td>
<td>102</td>
</tr>
</tbody>
</table>

*Typical at 120V and 77°F (25°C).  
^Typical CRI.

LUMEN MAINTENANCE

- **L70 LIFE**: 90% lumen maintenance at 70,000 hours (77°F/25°C ambient); L70 predicted life is more than 200,000 hours.

FIXTURE

- **ENVIRONMENT**: Dry/Damp. For interior applications (IP30).
- **HEAT SINKS**: Extruded aluminum heat sinks provide optimal thermal management, decreasing LED junction temperature and ensuring long life.
- **POWER SUPPLY ACCESS**: Center channel cover is hinged for easy access to power supplies and quick wiring.
- **MOUNTING**: Fixture is cable ready and has a center opening to accept a 1/2" stem mount. Cable, stem or surface mount options.
- **LENSES**: Recommended UV stable clear acrylic or frosted polycarbonate. Also available without a lens. Consult acrylic/polycarbonate chemical resistance chart for guidance in selecting the appropriate lensing material for your application.
- **WIRE GUARDS**: Optional wire guards can be field installed. See accessories ordering information.
- **WARRANTY**: Limited 5-year warranty.
- **AMBIENT OPERATING TEMPERATURES**: Cable, Loop/Hook, and Stem Mounted Fixtures -31°F to 131°F (-35°C to 55°C) Fixtures with Emergency Battery Back-ups and Surface Mounted Fixtures -31°F to 122°F (-35°C to 50°C)

LISTINGS AND CERTIFICATIONS

- UL | cUL listed for safety (UL 1598)
- UL | cUL dry/damp location listed
- RoHS Compliant
- FCC Class B
- Lighting Facts (U.S. Department of Energy) Certified
- DesignLights™ Consortium Approved
### ACCESSORIES:  Must be ordered separately. Packaged separately.

<table>
<thead>
<tr>
<th>Type</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIRELESS PROGRAMMER FOR DIMG</td>
<td>OCCDIMPROG</td>
<td>Handheld wireless programmer required to setup 120-277V dimmable occupancy sensor(s).</td>
</tr>
<tr>
<td>DMMABLE OCCUPANCY SENSOR(S)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CABLE KIT</td>
<td>CABLEKIT</td>
<td>Kit includes 18” Gripple aircraft cable and “Y” snap hook (one pair).</td>
</tr>
<tr>
<td>CABLE KIT</td>
<td>SAFETYCABLE</td>
<td>Kit includes 5” Gripple aircraft cable, “L” bracket and single snap hook.</td>
</tr>
<tr>
<td>WIRE GUARDS</td>
<td>ES2-WG-2M</td>
<td>Wire guard protects light modules from impact. Kit includes mounting hardware.</td>
</tr>
</tbody>
</table>

1 Optional add-on. See price list for pricing.
# Lusio® Essentials Series v2.1

## CLEAR ACRYLIC LENS

### DESCRIPTION
Wide distribution maximizes spacing, provides high uniformity and LED protection. Typically used for mounting heights of 20-40 feet (6-12m).

### FIXTURE DATA
- **Part Number:** ES2-UL-2M-SG-WIDE-CA
- **CCT:** 5000K
- **Fixture Lumen Output:** 13,667 lms
- **Fixture Wattage:** 113.7W
- **Fixture Efficacy Rating:** 115 lm/W
- **Spacing Criteria**
  - Diagonal: 1.46
  - Lateral Plane: 0°-180°: 90°-270°: 1.3

## CCT LIGHT OUTPUT CONVERSIONS

<table>
<thead>
<tr>
<th>CCT LIGHT OUTPUT CONVERSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4000K: 1.00</td>
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</table>

## FROSTED POLYCARBONATE LENS

### DESCRIPTION
Semi-diffused frosted lens provides glare control and LED protection. Typically used for mounting heights of 20-40 feet (6-12m).

### FIXTURE DATA
- **Part Number:** ES2-UL-2M-SG-WIDE-FP
- **CCT:** 5000K
- **Fixture Lumen Output:** 11,613 lms
- **Fixture Wattage:** 113.7W
- **Fixture Efficacy Rating:** 102 lm/W
- **Spacing Criteria**
  - Diagonal: 1.24
  - Lateral Plane: 0°-180°: 90°-270°: 1.14

## CCT LIGHT OUTPUT CONVERSIONS

<table>
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<tr>
<td>4000K: 1.00</td>
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</tbody>
</table>

## NO LENS

### DESCRIPTION
Wide distribution maximizes spacing and provides high uniformity. Typically used for mounting heights of 20-40 feet (6-12m).

### FIXTURE DATA
- **Part Number:** ES2-UL-2M-SG-WIDE-NL
- **CCT:** 5000K
- **Fixture Lumen Output:** 13,160 lms
- **Fixture Wattage:** 113.7W (120-277V)
- **Fixture Efficacy Rating:** 116 lm/W
- **Spacing Criteria**
  - Diagonal: 1.48
  - Lateral Plane: 0°-180°: 90°-270°: 1.3

## CCT LIGHT OUTPUT CONVERSIONS

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</thead>
<tbody>
<tr>
<td>4000K: 1.00</td>
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</tbody>
</table>

## TEST RESULTS

- **Tests done in accordance with LM79. Consult factory for LM79 and IES files.**

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**Photometric and distribution data is typical for this fixture. Performance will vary depending on LED and power supply. This fixture is manufactured to an overall performance tolerance of +/- 6%.**

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**Contact:**
- www.flextronics.com/lighting  •  lighting@flextronics.com  •  +1-913-851-3000