SafeSite® LED End-to-End Linear Fixture - UL 844
for Indoor and Outdoor Hazardous Applications
On when it matters most.

Products and solutions that protect your business

*Products shown above are not all certified for hazardous locations. Please visit www.dialight.com for more information.
Features & Benefits

- 5 Year warranty
- L70 rated for >100,000 hours @ 25°C
- Excellent corrosion resistance
- Dual wiring boxes for easy installation
- Through wiring capability
- Instant on/off operation
- Resistant to water, salt, dust & vibration
- Universal input (120-277 VAC, 50/60Hz)
- Mercury free
- Temperature compensation technology for longer life

Application

The SafeSite LED Linear fixture’s rugged solid state design makes it highly resistant to shock and vibration. Its fully gasketed IP66/67 rated enclosure makes it suitable for dust & wet locations, its 1598/A rating guarantees added protection from salt water spray. The SafeSite LED Linear’s superior design allows for wiring and mounting versatility and ease of installation for many lighting applications.
Hazardous Locations Ratings

Fixed and portable fixtures for installation and use in hazardous (classified) locations Class I, Divisions 1 and 2, Groups A, B, C, and D; Class II, Division 1, Groups E, F, and G; Class II, Division 2, Groups F and G; and Class III, Divisions 1 and 2, in accordance with the National Electrical Code, NFPA 70

Classes

The classes define the general nature of hazardous material in the surrounding atmosphere.

<table>
<thead>
<tr>
<th>Class</th>
<th>Hazardous Material in Surrounding Atmosphere</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class I</td>
<td>Hazardous because flammable gases or vapors are present in the air in quantities sufficient to produce explosive or ignitable mixtures.</td>
</tr>
<tr>
<td>Class II</td>
<td>Hazardous because combustible or conductive dusts are present.</td>
</tr>
<tr>
<td>Class III</td>
<td>Hazardous because ignitable fibers or flying's are present, but not likely to be in suspension in sufficient quantities to produce ignitable mixtures. Typical wood chips, cotton, flax and nylon. Group classifications are not applied to this class.</td>
</tr>
</tbody>
</table>

Divisions

The division defines the probability of hazardous material being present in an ignitable concentration in the surrounding atmosphere.

<table>
<thead>
<tr>
<th>Division</th>
<th>Presence of Hazardous Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Division 1</td>
<td>The substance referred to by class is present during normal conditions.</td>
</tr>
<tr>
<td>Division 2</td>
<td>The substance referred to by class is present only in abnormal conditions, such as a container failure or system breakdown.</td>
</tr>
</tbody>
</table>

Groups

The group defines the hazardous material in the surrounding atmosphere.

<table>
<thead>
<tr>
<th>Group</th>
<th>Hazardous Material in Surrounding Atmosphere</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group A</td>
<td>Acetylene</td>
</tr>
<tr>
<td>Group B</td>
<td>Hydrogen, fuel and combustible process gases containing more than 30% hydrogen by volume or gases of equivalent hazard such as butadiene, ethylene, oxides, propylene oxide and acrolein.</td>
</tr>
<tr>
<td>Group C</td>
<td>Carbon monoxide, ether, hydrogen sulfide, morphine, cyclopropane, ethyl and ethylene or gases of equivalent hazard.</td>
</tr>
<tr>
<td>Group D</td>
<td>Gasoline, acetone, ammonia, benzene, butane, cyclopropane, ethanol, hexane, methanol, methane, vinyl chloride, natural gas, naphtha, propane or gases of equivalent hazard.</td>
</tr>
<tr>
<td>Group E</td>
<td>Combustible metal dusts, including aluminum, magnesium and their commercial alloys or other combustible dusts whose particle size, abrasiveness and conductivity present similar hazards in connection with electrical equipment.</td>
</tr>
<tr>
<td>Group F</td>
<td>Carbonaceous dusts, carbon black, coal black, charcoal, coal or coke dusts that have more than 8% total entrapped volatiles or dusts that have been sensitized by other material so they present an explosion hazard.</td>
</tr>
<tr>
<td>Group G</td>
<td>Flour dust, grain dust, flour, starch, sugar, wood, plastic and chemicals.</td>
</tr>
</tbody>
</table>

Reference:
http://www.engineeringtoolbox.com/hazardous-areas-classification-d_347.html

www.dialight.com | Dialight_LED_End-to-End_Linear_SpecSheet_UL844_CID2_120-277_VAC_Jan2018
SafeSite® LED End-to-End Linear Fixture - UL 844

Standard Model

Certifications & Ratings
- UL 1598/A
- CSA C22.2 No. 250
- UL 844
- CSA C22.2 No. 137
- NEMA 4X
- Class I, Div. 2 Groups A, B, C & D
- Class II, Div. 1 Groups E, F & G
- Class II, Div. 2 Groups F & G
- Class III

Mechanical Information:
- Fixture weight:
  - 4' - 18 lb (8.2 kg)
  - 2' - 13 lb (5.9 kg)
- Shipping weight:
  - 4' - 20 lb (9.1 kg)
  - 2' - 15 lb (6.8 kg)
- Mounting:
  - (4) 3/4" NPT openings
  - Optional ceiling, flush or swivel mounting bracket

Electrical Specifications:
- Operating voltage: 120-277 VAC
- Power consumption: See table
- Operating temp: -40°F to +149°F (-40°C to +65°C)
- Harmonics: 61000-3-2
- Transient protection: FCC Title 47, Subpart B, Section 15, Class A device. RF Immunity; 10V/m, 80MHz-1GHz
- Surge protection: EN 61000-4-5
- THD: < 20%
- Power factor: > 0.9

Construction:
- Housing: Extruded 6063 aluminum
- Finish: Superior dual coat finish
  - Sealed polyester topcoat
  - Chemical-resistant epoxy primer
- Lens: Polycarbonate

Photometric Information:
- CRI: 80
- CCT: 5000 K (cool white)
  4000K (neutral white)
- IES files: Available at www.dialight.com
- All values typical unless otherwise stated (tolerance +/- 10%)

* For information on chemical compatibility, please follow this link to reference Dialight’s Chemical Compatibility Guide. www.dialight.com/pubs/MDTFCHMRFNLX001.PDF

Dimensions in inches [mm]

Temperature Ratings

<table>
<thead>
<tr>
<th>Ambient Temperature Range T4A Temperature Code</th>
<th>Ambient Temperature Range T5 Temperature Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>-40°F to +149°F (-40°C to +65°C)</td>
<td>-40°F to +113°F (-40°C to +45°C)</td>
</tr>
</tbody>
</table>
SafeSite® LED End-to-End Linear Fixture - UL 844

Mounting Options

### Swivel Mount

**EEX-S6**
- 316 Stainless steel swivel mounting bracket
- Can be angled at 0°, 30°, 45°, 60°, and 90°

### Ceiling Mount

**EEX-C6**
- 316 Stainless steel fixed ceiling mount

### Flush Mount

**EEX-F6**
- 316 Stainless steel flush mount

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Mounting Dimensional

2' - Swivel Mount
- 15.75 [400,1]
- 11.13 [282,6]
- 7.82 [198,6]
- 5.43 [138]

2' - Ceiling Mount
- 14.32 [363,8]
- 24.31 [617,5]

2' - Flush Mount
- 15.75 [400,1]
- 4.15 [105,3]
- 4.70 [119,5]
- 5.37 [136,5]

4' - Swivel Mount
- 27.06 [687,4]
- 16.12 [409,3]
- 51.06 [1297]
- 11.13 [282,6]

4' - Ceiling Mount
- 51.06 [1297]
- 48.31 [1227,1]

4' - Flush Mount
- 27.56 [700]
- 4.15 [105,3]
- 5.37 [136,6]

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Ordering Information

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<tr>
<th>Part Number1</th>
<th>Length</th>
<th>CID1</th>
<th>CID2</th>
<th>CID1</th>
<th>CID2</th>
<th>CID2</th>
<th>Voltage</th>
<th>Lens</th>
<th>CCT</th>
<th>Fixtures</th>
<th>Watt</th>
<th>lm/W</th>
<th>Beam Distribution</th>
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<tbody>
<tr>
<td>LBD2MB3FNNNNGN</td>
<td>4’</td>
<td>80</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>120-277VAC</td>
<td>Clear</td>
<td>5000K (cool white)</td>
<td>7,500</td>
<td>60</td>
<td>125 Medium</td>
<td></td>
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<td>•</td>
<td>•</td>
<td>•</td>
<td>120-277VAC</td>
<td>Diffused</td>
<td>5000K (cool white)</td>
<td>6,750</td>
<td>60</td>
<td>112 Medium</td>
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All values typical unless otherwise stated, Lumen values are typical (tolerance +/- 10%).
* For information on chemical compatibility, please follow this link to reference Dialight’s Chemical Compatibility Guide. www.dialight.com/pubs/MTFCHEMRFLX001.PDF
Part numbers listed in the above table are cool white. For neutral white models replace the 6th character with N. Ex. LBD2MB3FNNNNGN becomes LBD2MB3FNNNNGN.

Light Distribution Pattern

Clear Lens

Diffused Lens
ALL VALUES ARE DESIGN OR TYPICAL VALUES WHEN MEASURED UNDER LABORATORY CONDITIONS. THE LIGHTING EFFICIENCY STATEMENTS CONTAINED HEREIN ARE CALCULATED ON A LUMEN PER WATTS BASIS WHEN COMPARING FIXTURES WITH SIMILAR FEATURES. ALL INFORMATION PROVIDED IS ACCURATE AS OF THE DATE OF PUBLICATION, IS SUBJECT TO CHANGE WITHOUT NOTICE AND DOES NOT FORM PART OF ANY CONTRACT WITH DIALIGHT. DIALIGHT DOES NOT WARRANT OR REPRESENT THAT ITS PRODUCTS ARE FIT FOR ANY PARTICULAR PURPOSE AND HAS NO RESPONSIBILITY FOR THE [INAPPROPRIATE/UNAUTHORISED/NON-APPROVED] USE OF ANY DIALIGHT PRODUCTS BY THE END USER.

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