SafeSite® LED Area Light
for Indoor and Outdoor Hazardous Locations

Patent Pending
About Dialight
Dialight (LSE: DIA.L) is leading the energy efficient LED lighting revolution around the world for industrial and hazardous areas as well as transportation and infrastructure applications. For 40 years it has been committed to the development of LED lighting solutions that enable organizations to vastly reduce energy use and maintenance needs, improve safety, ease disposal and reduce CO₂ emissions.

Value Proposition
• Improve safety, color quality
• Improve temperature rating (T-rating)
• Lower total cost of ownership, quick ROI
• Lower energy consumption by > 50%
• Significantly reduce CO₂ emissions

Features & Benefits
• L70 rated for >100,000 hours @ 25°C
• 5 year full performance warranty
• Instant on/off operation
• Superior color rendering index compared to HPS, LPS, MV
• Mercury free
• Resistant to shock and vibration
• Temperature compensation technology for longer life
• Factory sealed
• Low T rating compared to traditional fixtures
• Wide Throw (Aisle Way) optic model available

SafeSite®
• LED lighting for hazardous locations

DuroSite®
• LED lighting for general industrial locations

Vertically Focused
Regulated Primary Markets
• Oil, Gas & Petrochemical
• Power Generation
• Mining
• Chemical
• Pharmaceutical
• Water & Sewage
• Food & Beverage

Secondary Markets
• Manufacturing
• Warehousing
• Cold Storage
• Data Centers

History at a Glance
1938 → Dialight founded in Brooklyn, NY
1971 → LED Circuit Board Indicator
1994 → LED Transit Vehicle Signals
1995 → LED Traffic Signals
2000 → FAA certified LED Obstruction Lights
2007 → LED Lighting for Hazardous Locations
2009 → LED High Bay Fixtures
2012 → Full performance 10-year warranty
2013 → Controls for LED Lighting
2014 → 125 Lumens per Watt

View the full case studies at:

www.dialight.com
SafeSite® LED Area Light
Class I Div. 2

Application:
The SafeSite® LED area light represents the future of energy efficient facility illumination for hazardous locations worldwide. The Class I, Div 2 LED area lighting fixture consumes at least 50% less energy compared to traditional HID light sources, while reducing maintenance and carbon emissions. This light incorporates both cutting edge LED technology along with proprietary optics to achieve area lighting comparable with other traditional light sources.

Whether your application is in a refinery, oil platform, chemical plant or any other Class I, Div 2 application, this fixture offers improved performance across the board.

Mechanical Information

- **Fixture Weight:**
  - 10 lbs (4.5 kg) - Polycarbonate lens models
  - 12 lbs (5.5 kg) - Glass lens models

- **Shipping Weight:**
  - 12 lbs (5.5 kg) - Polycarbonate lens models
  - 14 lbs (6.3 kg) - Glass lens models

- **Mounting:**
  (1) Threaded 3/4" NPT rear
  (Units with retrofit adaptors also available)

- **Cabling:**
  10' (3.5m) SOOW Power Cord

Electrical Specifications

- **Operating Voltage:**
  - 100 - 277V AC, 50/60 Hz
  - 347 - 480V AC, 50/60 Hz

- **Power Consumption:** See ordering information

- **Operating Temp:**
  - -40°F to +149°F (-40°C to +65°C)

- **Harmonics:**
  - IEC 61000-3-2

- **Noise Requirements/EMC:**
  - FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz

- **Surge Protection**
  - 100 - 277V AC 50/60Hz: 1 kV line to line
  - 2 kV line to ground
  - 347 - 480V AC 50/60Hz: 6 kV line to line
  - 6 kV line to ground

- **THD**
  - 100 - 277V AC 50/60Hz: <20%
  - 347 - 480V AC 50/60Hz: <20%

- **Power Factor:**
  - > 0.9

Construction

- **Housing:** Powder coated copper free aluminum
- **Finish:** Polyester / epoxy powder coat gray RAL 7040 for superior corrosion resistance
- **Lens:**
  - HZD - Hard coated polycarbonate (or glass)
  - HZF - Polycarbonate with antistatic coating

Photometric Information

- **CRI:**
  - 70

- **CCT Standard:**
  - 5,000K (cool white)
  - 4,000K (neutral white)

- **Optics:**
  - 180° forward throw
  - 360° circular pattern
  - Wide Throw (Aisle Way) pattern

- **IES Files:** Available upon request

All values typical unless otherwise stated
All Lumen Values are typical (tolerance +/- 10%)

Certifications

- Class I, Div 2, Groups A, B, C, D
- Class II, Div 1
- Class II, Div 2
- Class III, Div 1
- Class III, Div 2
- UL 844
- UL 1598/A
- CSA 22.2 No. 137-M1981
- ABS Design Assessed: # 12-HS942957-PDA
- IP 66
- NEMA 4X

Temperature Ratings

<table>
<thead>
<tr>
<th>Ambient Temperature Range</th>
<th>Ambient Temperature Range</th>
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<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>
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</table>

www.dialight.com
**SafeSite® LED Area Light**  
**Class I Div. 1 / Class II Div. 1**

Application:
The SafeSite® LED area light represents the future of energy efficient facility illumination for hazardous locations worldwide. The Class I, Div 1 LED area lighting fixture consumes at least 50% less energy compared to traditional HID light sources, while reducing maintenance and carbon emissions. This light incorporates both cutting edge LED technology along with proprietary optics to achieve area lighting comparable with other traditional light sources.

Whether your application is in a refinery, oil platform, chemical plant or any other Class I, Division 1 application, this fixture offers improved performance across the board.

### Mechanical Information
- **Fixture Weight:** 14.5 lbs (6.58 kg)
- **Shipping Weight:** 16.5 lbs (7.48 kg)
- **Mounting:** (1) Threaded 3/4” NPT rear
- **Cabling:** 10’ (3.5m) SOOW Power Cord

### Electrical Specifications
- **Operating Voltage:** 100 - 277V AC, 50/60 Hz  
  347 - 480V AC, 50/60 Hz
- **Power Consumption:** See ordering information
- **Operating Temp:** -40°F to +149°F (-40°C to +65°C)
- **Harmonics:** IEC 61000-3-2
- **Noise Requirements/EMC:**  
  FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz

### Surge Protection
- **100 - 277V AC 50/60Hz:** 1 kV line to line  
  2 kV line to ground
- **347 - 480V AC 50/60Hz:** 6 kV line to line  
  6 kV line to ground
- **THD:** <20%
- **Power Factor:** > 0.9

### Construction
- **Housing:** Powder coated copper free aluminum
- **Finish:** Polyester / epoxy powder coat gray RAL 7040 for superior corrosion resistance
- **Lens:** Glass

### Photometric Information
- **CRI:** 70
- **CCT Standard:** 5,000K (cool white)  
  4,000K (neutral white)
- **Optics:**  
  180° forward throw  
  360° circular pattern
- **IES Files:** Available upon request

All values typical unless otherwise stated.

<table>
<thead>
<tr>
<th>Ambient Temperature Range</th>
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<tr>
<td>T4a Temperature Code</td>
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<td>-40°F to +113°F (-40°C to +45°C)</td>
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**Certifications**
- Class I, Div 1, Groups B, C, D
- Class II, Div 1, Groups E, F, G
- UL 844
- UL 1598/A
- CSA 22.2 No. 137-M1981
- CSA 22.2 No. 25-1966
- ABS Design Assessed: # 12-H5942957-PDA
- IP 66
- NEMA 4X

**Dimensions in Inches [mm]**

Temperature Ratings

<table>
<thead>
<tr>
<th>Ambient Temperature Range</th>
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<tbody>
<tr>
<td>T4a Temperature Code</td>
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<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>
180° optical pattern models are optimized for a 45° mounting angle. For neutral white model replace the 5th character with N. Ex: HZF2C becomes HZF2CN.

All lumen values are typical (tolerance +/- 10%).

Part numbers listed in the above table are 100-277V AC. For 347-480 VAC model replace the 6th character with 9. Ex: HZF2C becomes HZF2C9.

For Dialight’s complete list of DLC qualified products, please click this link: www.dialight.com/Assets/News_Archives/DLC_Part_Number_List.xls
## Ordering Information

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<th>CID2</th>
<th>CIID1</th>
<th>CIID2</th>
<th>CCT</th>
<th>Lumen</th>
<th>Wattage</th>
<th>Voltage</th>
<th>Group B (Hydrogen)</th>
<th>Optical Pattern</th>
<th>Lens</th>
<th>180° optical pattern models are optimized for a 45° mounting angle</th>
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</table>

Part numbers listed in the above table are cool white. For neutral white model replace the 5th character with N. Example: HZF2C2N becomes HZF2N2N.

All lumen values are typical (tolerance +/- 10%).

For Dialight’s complete list of DLC qualified products, please click this link: www.dialight.com/Assets/News_And_Events/DLC_Part_Number_List.xls

For 180° optical pattern models, please refer to the chart provided for a 45° mounting angle.
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<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Kit Includes</th>
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<tbody>
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<td>Junction box mounting hardware (requires bracket HZXW3 or HZXW7 not included)</td>
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<td>HZXW3</td>
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<td>Aluminum bracket</td>
<td>Bracket Mounting hardware</td>
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<td>Stainless steel bracket with pipe clamp</td>
<td>Bracket Pipe clamp Mounting hardware</td>
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<td>Aluminum bracket with pipe clamp</td>
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</tr>
<tr>
<td>HZXSAFEKIT</td>
<td>Safety cable kit</td>
<td>2 Eyelets 2 Safety cables Mounting Hardware</td>
</tr>
<tr>
<td>HZXSAFETABS</td>
<td>Safety Tabs</td>
<td>2 Eyelets Mounting Hardware</td>
</tr>
</tbody>
</table>

Conduit  
Pipe Clamp  
Stanchion  
Junction Box  

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