LZ Series
LINEAR LED TECHNOLOGY
for Harsh and Hazardous Environments
FEATURES-SPECIFICATIONS

Applications
Linear LED Luminaires are designed for installations where moisture, dust, corrosion and vibration may be present, and NEMA 3, 4X IP66 areas where wind, water, snow or high ambient temperatures can be expected. They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC/CEC.

ABS (American Bureau of Shipping) type approval for use on decks, vessels, platforms, barges, ships and boats. Also suitable for docks and marinas.

NSF (National Sanitation Foundation) approved for “Food Handling” areas, typically requiring non-glass lighting.

Typical applications include manufacturing plants, and certain chemical and petrochemical processing facilities, seawage treatment plants, offshore and dockside installations, garages, storage facilities, tunnels, and grain/food facilities.

Compliances
- UL-8750 for LED lighting
- ANSI/UL 1598(A)
- UL-844 Standard for lighting fixtures for hazardous locations, Class I, Division 2; Class II, Divisions 1 and 2; Class III
- CSA C22.2 no. 137-M1981 electric luminaires for use in hazardous locations
- Enclosed and gasketed
- NEMA 3, 4X, IP66

Materials
- NEMA 4X & IP66 rated enclosure
- Housing – one piece fiberglass reinforced polyester or 316 Stainless Steel
- Lens – Clear Lexan® impact resistant polycarbonate lens (Lexan is a registered trademark of SABIC)
- Two 3/4” NTP hubs – one at each end (includes one 3/4” close-up plug and two 3/4”x1/2” reducers for maximum user flexibility – LZ2NL hubs aluminum; LZ2SL hubs 316 Stainless Steel

LED Features and Standards
Supplemental 20KA/10KV Surge Protection is standard (for AC models)

- Many Midpower LEDs blend light to simulate fluorescent tube
- Crisp White Light for Excellent Color Rendering – Chromaticity 5000K (CCT); approx. 70 CRI
- Energy Savings – High lumens per watt
- LED Array Life – to 212,000 maintenance free hours to 70% initial lumens
- Ambient suitability -40°C to 55°C up to 120W
- Instant On – Including after power interruption
- World Voltage 120 - 277VAC 50/60Hz
- Solder-LESS LED Board Connections – Vibration Resistant
- LM80-08 Measurement of lumen maintenance for LED light sources
- LM79-08 Certificated “Absolute” Photometry, including Chromaticity Color for Solid State Lighting
- L70 Values – Industry Nomenclature for Hours of use to 70% of initial Lumens – TM-21 & Calculated

Compliance
- Class I, Div. 2, Groups A, B, C, D
- Class I, Zone 2, Groups IIC, IIB, II A
- Class II, Div. 1 & 2, Groups E, F, G
- NEMX nAll, Ex nAll
- Wet Locations
- NEMA 4X, IP66

Certified - File LR11713

ABS Type Approval (L32NL, L32SL)

NSF Food Handling (L22NL)

LED VS FLUORESCENT WATTAGE & DELIVERED LUMENS

<table>
<thead>
<tr>
<th>LED WATT</th>
<th>LUMENS L/W</th>
<th>FLUORESCENT LUMENS L/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>18W</td>
<td>2557</td>
<td>150</td>
</tr>
<tr>
<td>28W</td>
<td>3775</td>
<td>144</td>
</tr>
<tr>
<td>34W</td>
<td>5075</td>
<td>149</td>
</tr>
<tr>
<td>45W</td>
<td>5562</td>
<td>137</td>
</tr>
<tr>
<td>55W</td>
<td>7577</td>
<td>144</td>
</tr>
<tr>
<td>60W</td>
<td>7618</td>
<td>132</td>
</tr>
<tr>
<td>80W</td>
<td>11140</td>
<td>137</td>
</tr>
</tbody>
</table>

- Cataloged Wattage in LZ2x Housing & Lens – actual varies with driver or ballast losses – Delivered Lumens and L/W from photometry testing
- LZ2xL L70 Life 99,600 - 212,000
- LZ2x Fluorescent 10,000 - 60,000

FOOD SUITABILITY

Non-Glass Group G

FOOD SUITABILITY

LED INTRODUCTION & LOGIC

LZ LED INTRODUCTION & LOGIC

Class I, Div. 2, Groups A, B, C, D
Class I, Zone 2, Groups IIC, IIB, II A
Class II, Div. 1 & 2, Groups E, F, G
NEMX nAll, Ex nAll
Wet Locations
NEMA 4X, IP66

Certified - File LR11713

ABS Type Approval (L32NL, L32SL)

NSF Food Handling (L22NL)

Catalog Number Logic

LZ2NL - Series Constant FRP Housing, Lexan Lens
or
LZ2SL - Series Constant 316 Stainless Housing, Lexan Lens

Feature Wattage

<table>
<thead>
<tr>
<th>Fixture Wattage</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>30 – 120V-277VAC 50/60Hz 18W - 120W</td>
</tr>
<tr>
<td>28</td>
<td>33 – 347-480VAC 60Hz 28W, 55W only</td>
</tr>
<tr>
<td>45</td>
<td>34 – 125VDC - 250VDC, 120-277VAC 28W, 60W, 55W, 120W only</td>
</tr>
<tr>
<td>60</td>
<td>Options</td>
</tr>
<tr>
<td>55</td>
<td>FF – 2 Fuses (2 hot legs)</td>
</tr>
<tr>
<td>80</td>
<td>TBL – Terminal Blocks Looping</td>
</tr>
<tr>
<td>120</td>
<td>PF – 120V Photocell factory installed</td>
</tr>
<tr>
<td></td>
<td>P2 – 208V-277VAC</td>
</tr>
<tr>
<td></td>
<td>P3 – 347V only - 28W, 40W, 55W, 75W only</td>
</tr>
<tr>
<td></td>
<td>QD – Quick Disconnect (before driver)</td>
</tr>
</tbody>
</table>

© Group LZ2SL only for group E
© Fuses not for Canadian or Marine applications
© LZ2xL fixtures with photocells are C1D2 only, not C2D1

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### LZ SERIES – ORDERING INFORMATION & TECHNICAL DATA

#### ORDERING INFORMATION AND AMBIENT SUITABILITY

| CATALOG NUMBER | FIBERGLASS (WT.) | STAINLESS (WT.) | WATTAGE | LENGTH/PCBS | VOLTAGE | AMPS | DELIVERED LUMENS | LUMENS PER WATT | C102 | C2D1 | C122 | L2Z2NL GRPS. FG | L2Z2SL GRPS. FG | nA | Ex nA |
|----------------|------------------|------------------|---------|--------------|---------|------|-----------------|----------------|------|------|------|----------------|-----------------|----|------|------|
| LZ2NL1830      | 12               | LZ2SL1830        | 13      | 18           | 2/2     | 120-277VAC | 0.15 - 0.06     | 2557           | 150  | T5   | T4A  | ≤ 135°C        | ≤ 135°C         | T5 | T4   |
| LZ2NL2830      | 12               | LZ2SL2830        | 13      | 28           | 2/2     | 120-277VAC | 0.23 - 0.10     | 3775           | 144  | T5   | T4A  | ≤ 135°C        | ≤ 135°C         | T5 | T4   |
| LZ2NL4530      | 12               | LZ2SL4530        | 13      | 45           | 2/2     | 120-277VAC | 0.38 - 0.16     | 5562           | 137  | T5   | T4A  | ≤ 135°C        | ≤ 135°C         | T5 | T4   |
| LZ2NL6030      | 14               | LZ2SL6030        | 15      | 60           | 2/3     | 120-277VAC | 0.50 - 0.22     | 7618           | 132  | T4A  | -    | ≤ 135°C        | -               | T4 | -    |
| LZ2NL8030      | 23               | LZ2SL8030        | 24      | 80           | 4/4     | 120-277VAC | 0.67 - 0.29     | 11140          | 137  | T5   | T4A  | ≤ 135°C        | ≤ 135°C         | T5 | T4   |
| LZ2NL12030     | 25               | LZ2SL12030       | 28      | 120          | 4/6     | 120-277VAC | 1.00 - 0.43     | 16010          | 132  | T4A  | -    | ≤ 135°C        | -               | T4 | -    |

- See logic for additional voltages and options
- Shipping weights approximate
- Length is nominal, see dimensional detail. PCB noted quantity used per fixture wattage
- Amperage measured at 120VAC; 277VAC calculated
- Use 60°C Minimum Supply Wire at 40°C Ambient except 120W; 75°C Wire at 55° Ambient and all 120W

#### LED LUMEN LIFE

<table>
<thead>
<tr>
<th>LED LUMEN LIFE</th>
<th>L70 CALCULATED</th>
<th>L70 TM-21**</th>
</tr>
</thead>
<tbody>
<tr>
<td>40°C Ambient</td>
<td>212,000 Hours to 70% Initial</td>
<td>60,600 Hours Official Reported</td>
</tr>
<tr>
<td>55°C Ambient</td>
<td>99,600 Hours to 70% Initial</td>
<td>60,400 Hours Official Reported</td>
</tr>
</tbody>
</table>

**Mounting Accessories**

- **Wall Bracket Set**
  - Part Number LZWB
  - Stainless Steel (natural finish)

- **Adjustable Wall Bracket Set**
  - Part Number LZAB
  - Stainless Steel bracket with ceramic coated pivot bolt

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

- **Eyebolt Set**
  - Part Number LZEB
  - Stainless Steel bolt with lockwasher & nut (natural finish)

- **Suspension Chains** (2 required)
  - Part Number HFX-SC

### Dimensions LZ2NL Series

![LZ2NL Dimensions](image)

**Dimensions LZ2NL Series**

- Dimensions in ( ) are millimeters.
- Product accessories have hardware for attachment to fixture; hardware to attach to wall/ceiling F.B.O.
- Use 60°C Minimum Supply Wire at 40°C Ambient except 120W; 75°C Wire at 55° Ambient and all 120W

### Dimensions LZ2SL Series

![LZ2SL Dimensions](image)

**Dimensions LZ2SL Series**

- Dimensions in ( ) are millimeters.
- Product accessories have hardware for attachment to fixture; hardware to attach to wall/ceiling F.B.O.
- Use 60°C Minimum Supply Wire at 40°C Ambient except 120W; 75°C Wire at 55° Ambient and all 120W

### Replacement Parts:

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>LZ2NL4LENS</td>
<td>4’ Lens only LZ2NL/LZ2SL</td>
</tr>
<tr>
<td>LZ2NL2LENS</td>
<td>2’ Lens only LZ2NL/LZ2SL</td>
</tr>
<tr>
<td>LZ2N4BAR</td>
<td>4’ Locking Bar only LZ2NL</td>
</tr>
<tr>
<td>LZ2N2BAR</td>
<td>2’ Locking Bar only LZ2NL</td>
</tr>
<tr>
<td>LZ2S-LATCH</td>
<td>Latch and Spring LZ2SL</td>
</tr>
</tbody>
</table>

- *Mounting Centers are 1/4-20” tapped for use all thread rod or below accessories.

**Notes:**
- Dimensions in ( ) are millimeters.
- Product accessories have hardware for attachment to fixture; hardware to attach to wall/ceiling F.B.O.
- Eyebolts are 316 Series, brackets are 300 Series Stainless Steel.
• Modern “Ribbon” Windows Interface with “Real Time” Calculations
• Easily import/export of CAD files (DWG/DXF/PDF)
• Enhanced photometric database with luminaire images and wireframes
• Ability to draw round or complex rooms and grids
• False Colors to indicate “Relative Brightness”

See “Lighting Software link” at www.hubbell-killark.com to download