## HYDROLUME® SLIM IP68 LED Strip Light

### SPECIFICATION SHEET

**Item #**

<table>
<thead>
<tr>
<th>Project</th>
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<tbody>
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</tbody>
</table>

**Overview**

**HYDROLUME® SLIM IP68 LED Strip Light**

- **UL Listed 2108 certification** allows for installations indoor, outdoor, wet locations, and submerged in water.
- **UL Listed 676** allows for installation in pools, spas, and fountains.
- **Safe for chlorine treated installations.**
- **Resistant to direct sunlight and UV radiation.**

### FEATURES

- **Voltage/Wattage**
  - HLS - STANDARD: 24v / 1.22W/ft.
  - HLSP - HD: 24v / 2.44W/ft.

- **Lumens**
  - 2700K: 113 Lm/ft.
  - 3000K: 113 Lm/ft.
  - 4000K: 122 Lm/ft.
  - 6500K: 122 Lm/ft.

- **Max. Run**
  - HLS - STANDARD: 65 feet
  - HLSP - HD: 32 feet

- **Cut Points**
  - 9.84 in
  - 6.88 in.

- **LED Chips**
  - 8/foot
  - 12/foot

- **Color Temperature**
  - 2700K, 3000K, 4000K, 6500K

- **CRI**
  - 80+

- **Dimmable**
  - Yes

- **Field Cuttable**
  - No

- **Dimensions**
  - 0.47 x 0.13 in. (W x H) (Strip Only), 0.60 x 0.50 in. (W x H) (w/ Endcap)
  - 0.88 x 0.65 x 0.51 in. (Connection)

- **Environment**
  - Outdoor / Wet Location / Submersible IP68

- **Certification**
  - UL Listed 2108 & 676

- **Warranty**
  - 5-Year Warranty
SKU BUILDER

DI - 24V - Model - Color Temp - Length - Driver* (Optional) - MOUNTING* (Optional)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>COLOR TEMP</th>
<th>LENGTH (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLS</td>
<td>27</td>
<td></td>
</tr>
<tr>
<td>HLSP</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td></td>
<td>40</td>
<td></td>
</tr>
<tr>
<td></td>
<td>65</td>
<td></td>
</tr>
</tbody>
</table>

**Example:** DI-24V-HLSP30-384-ELEC-CHN = Diode, 24 Volt, HYDROLUME® SLIM HD, 3,000° CCT, 384 in. (32 feet), with Electronic Driver, and Mounting Channel

**MECHANICAL DIAGRAMS**

**HYDROLUME® SLIM**
Standard density Wet Location LED Strip Light. (Single Cut-Point shown)

**DI-HLS**

**HYDROLUME® SLIM - HD**
High density Wet Location LED Strip Light. (Single Cut-Point shown)

**DI-HLSP**

*Driver and Mounting selections are for specifying purposes only. Driver and mounting options must be purchased separately.*
HYDROLUME® SLIM

**SKU Length** = 10.31 in. plus a multiple of 9.84 Increments

<table>
<thead>
<tr>
<th>First Increment</th>
<th>Last Increment</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.31 in.</td>
<td>9.84 in.</td>
</tr>
<tr>
<td>9.92 in.</td>
<td></td>
</tr>
</tbody>
</table>

**CUT POINTS**

**HYDROLUME® SLIM - HD**

**SKU Length** = 10.31 in. plus a multiple of 9.84 + 9.92 in.

<table>
<thead>
<tr>
<th>First Increment</th>
<th>Last Increment</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.38 in.</td>
<td>6.89 in.</td>
</tr>
<tr>
<td>6.99 in.</td>
<td></td>
</tr>
</tbody>
</table>

**SKU Length** = 7.38 in. plus a multiple of 6.89 + 7.38 in.

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<tr>
<th>First Increment</th>
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<tbody>
<tr>
<td>7.38 in.</td>
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</tr>
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<td>7.38 in.</td>
<td></td>
</tr>
</tbody>
</table>
LED DRIVERS  (Required)
The following Listed LED Drivers are recommended for compatibility and to meet NEC code when installed according to specifications. For additional LED Driver options see Diode LED’s product page at: https://www.diodeled.com/products/led-power-supplies.html

STAND ALONE

SWITCHEX® DRIVER + DIMMER SWITCH
SWITCHEX combines an LED driver and LED dimmer switch into a single integrated unit. Fits into standard switch boxes.

<table>
<thead>
<tr>
<th>SKU</th>
<th>L - LENGTH</th>
<th>W - WIDTH</th>
<th>H - HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-24V-SE-60W</td>
<td>1.40 in.</td>
<td>2.10 in.</td>
<td>4.10 in.</td>
</tr>
<tr>
<td>DI-24V-SE-100W</td>
<td>1.40 in.</td>
<td>2.10 in.</td>
<td>4.10 in.</td>
</tr>
</tbody>
</table>

Fits in Standard Switch Box

ON/OFF, DMX, & PWM CONTROL

LO-PRO® JUNCTION BOX & DRIVER COMBO - 24V CONSTANT VOLTAGE LED DRIVER
Use Constant Voltage Drivers to power your lighting system. Compatible with Standard 120VAC On/Off Switches, REIGN® Low Voltage Dimmers, TOUCHDIAL™ Control System, DMX Decoders, and PWM Controls.

<table>
<thead>
<tr>
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<th>L - LENGTH</th>
<th>W - WIDTH</th>
<th>H - HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-0970-LPS</td>
<td>11.25 in.</td>
<td>3.75 in.</td>
<td>1.90 in.</td>
</tr>
<tr>
<td>DI-CV-MW24V60W-277-LPS</td>
<td>11.25 in.</td>
<td>3.75 in.</td>
<td>1.90 in.</td>
</tr>
<tr>
<td>DI-CV-MW24V90W-277-LPS</td>
<td>11.25 in.</td>
<td>3.75 in.</td>
<td>1.90 in.</td>
</tr>
<tr>
<td>DI-0954-LPL</td>
<td>13.5 in.</td>
<td>4.5 in.</td>
<td>2.37 in.</td>
</tr>
</tbody>
</table>
**LED DRIVERS Cont. (Required)**

**OMNIDRIVE® 2 ELECTRONIC DIMMABLE LED DRIVER**


<table>
<thead>
<tr>
<th>SKU</th>
<th>L - LENGTH</th>
<th>W - WIDTH</th>
<th>H - HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-OD2-24V24W</td>
<td>13.75 in.</td>
<td>3.00 in.</td>
<td>1.60 in.</td>
</tr>
<tr>
<td>DI-OD2-24V60W</td>
<td>13.75 in.</td>
<td>3.00 in.</td>
<td>1.60 in.</td>
</tr>
<tr>
<td>DI-OD2-24V96W</td>
<td>15.00 in.</td>
<td>3.10 in.</td>
<td>2.40 in.</td>
</tr>
<tr>
<td>DI-OD2-24V120W</td>
<td>15.00 in.</td>
<td>3.10 in.</td>
<td>2.40 in.</td>
</tr>
<tr>
<td>DI-OD2-24V200W</td>
<td>16.10 in.</td>
<td>3.40 in.</td>
<td>2.40 in.</td>
</tr>
</tbody>
</table>
**LED DRIVERS (Required)**

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### LUTRON OPTIONS

#### L3D SPEC SHEET

**LUTRON.** Hi-lume 1% LED DIMMABLE DRIVER  
Hi-lume 1% LED Driver has a minimum load of 5W and dims from 100-1%.  

<table>
<thead>
<tr>
<th>SKU</th>
<th>L - LENGTH</th>
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<th>H - HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-DM-24V40W-L3D</td>
<td>4.89 in.</td>
<td>4.00 in.</td>
<td>2.62 in.</td>
</tr>
</tbody>
</table>

#### LTS SPEC SHEET

**LUTRON.** Hi-lume Premier 0.1% LED DIMMABLE DRIVER  
Hi-Lume Premier 0.1% LED Driver has a minimum load of 5W and dims from 100-0.1%.  

<table>
<thead>
<tr>
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<th>L - LENGTH</th>
<th>W - WIDTH</th>
<th>H - HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-DM-24V96W-L3D</td>
<td>5.50 in.</td>
<td>2.20 in.</td>
<td>10.50 in.</td>
</tr>
</tbody>
</table>

#### 0-10V

**LO-PRO® JUNCTION BOX & DRIVER COMBO - 24V COMMERCIAL GRADE 0-10V LED DIMMABLE DRIVER**  
Compatible with 0-10V controls and dimming systems.

<table>
<thead>
<tr>
<th>SKU</th>
<th>L - LENGTH</th>
<th>W - WIDTH</th>
<th>H - HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-DM-MW-24V60W-0-10V-LPS</td>
<td>11.25 in.</td>
<td>3.75 in.</td>
<td>1.90 in.</td>
</tr>
<tr>
<td>DI-DM-MW-24V90W-0-10V-LPL</td>
<td>13.5 in.</td>
<td>4.5 in.</td>
<td>2.37 in.</td>
</tr>
</tbody>
</table>
**SPECIFICATIONS**

- **Input:** 24VDC Constant Voltage
- **LED Chip Type:** 2835
- **LED Chip Beam Angle:** 120°
- **Material:** UV/IR protected TPU
- **Luminous Efficacy***(lm/w): 92~100
- **Mounting (sold separately):** Mounting Bracket, and Mounting Channel (mounting channel required for UL 676)
- **Connections:** Various lengths from 4" - 24" Leads: 18/2 AWG
- **Ambient Temp:** -4 - 122°F (-20 ~ 50°C)
- **Operating Temp:** -4 - 176°F (-20 ~ 80°C)
- **Flammability:** Flame retardant
- **UV Resistance:** Yes but may still degrade over time

1. Requests for custom lengths of Strip Light will be cut to the nearest (lower) cut point. *(Example: DI-24V-HLSP30-384-ELEC-CHN would be cut to 378 inches (ie. 31' 6")*
2. Lumen value measured in accordance to IES LM-80-08. LED chips have a luminous flux range with a tolerance of +/- 5%.
3. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
4. Actual efficacy value is dependent to specified LED driver (power supply). An estimated efficacy value can be calculated as follows: Lumen value divided by average power consumption per foot.
5. Do not install product in an environment outside the listed ambient temperature. Exceeding the maximum ambient temperature may damage LED chips, reduce the total lamp life, lumen output, and/or adversely impact color consistency.
6. Operating temperature is measured according to the minimum and maximum ambient temperature environment.
7. This product has been tested and passed glow-wire flammability tests (GWFI index) at 650°C/1200°F, providing an extra level of safety for common areas, hospitality, and areas of high risk fire.

**COMPATIBLE DRIVERS**

Additional information on compatible Drivers can be found on the Diode LED web site at: [www.DiodeLED.com](http://www.DiodeLED.com).

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**SPECIFYING?**

*Note: The compatible products listed in this Specification Sheet are provided for reference only. For complete specifications of compatible products, click on the SPEC SHEET links provided.*
HYDROLUME® SLIM IP68 LED Strip Light

SPECIFICATION SHEET

COMPLIANCE & REGULATORY APPROVALS

Safety
• UL Listed 2108 Low Voltage Lighting System / Low Voltage Luminaires. UL 1598 / CSA 250.0-08, UL 8750. UL 879 / CAN/CSA-C22.2 no. 207-M89. Certified for United States and Canada. File # E469769.
• UL 676 Underwater Luminaires / CAN/CSA C22.2 No. 89-1976 / UL 8750. This certification conforms to Article 680 and 682 of the National Electrical Code® for installation in swimming pools, fountains, spas, natural and artificially made bodies of water. HYDROLUME MUST be installed with Mounting Channel (DI-HLS-MTCH) when installed underwater.

Performance
• LED chip data measured in accordance to IES LM-80-08.
• Photometric & Colorimetry data measured in accordance to IES LM-79-08, in Elemental LED’s Innovation Lab.

ADDITIONAL INFORMATION
• HYDROLUME® SLIM LED STRIP LIGHT Installation Guide

SAFETY / WARNINGS / DISCLOSURES
1. Install in accordance with national and local electrical code regulations.
2. This product is intended to be installed and serviced by a qualified, licensed electrician.
3. Only install with a listed Class 2 DC Constant Voltage LED Driver.
4. All plastics are affected by the elements and may shift in color and other properties after product installation, particularly with direct exposure to sun, chlorinated water, and other chemicals.
5. Do not modify or disassemble product beyond instructions or this warranty will be void.
6. Actual color may vary from what is pictured above and on other print materials due to the limitations of photographic processes.
7. We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

WARRANTY

Limited Warranty
This product has a five (5) year limited warranty from the date of shipment. This warranty does not include the additional accessories referenced in this specification sheet. Complete warranty details for fixtures and additional accessories are available at www.diodeled.com/limited-warranty/ within the Policies section. For warranty related questions please contact product support.

Consumer’s Acknowledgment
Elemental LED, Inc. stands behind its products when they are used properly and according to our specifications. By purchasing our products, the purchaser agrees and acknowledges that lighting design, configuration and installation is a complex process, wherein seemingly minor factors or changes in layout and infield adjustments can have a significant impact on an entire system. Choosing the correct components is essential. Elemental LED is able to work with the original purchaser to make an appropriate product selection to the extent of the limited information that the customer can provide, but it is virtually impossible for Elemental LED to design a system that foresees every unknown factor. For this reason, this Warranty does not cover problems caused by improper design, configuration or installation issues. Any statement from an Elemental LED employee or agent regarding a customer’s bill of goods and/or purchase order is NOT an acknowledgment that the products purchased are designed and configured correctly. The purchaser agrees and acknowledges that it is the customer’s responsibility to adhere strictly to all information contained in the Product Specification Sheets.

There is often more than one way to design, configure and layout an LED lighting application properly to achieve the same lighting effect. Elemental LED strongly recommends that licensed professionals be used in the design and installation of lighting systems that include Elemental LED products. The specifications include important information that a designer and installer should carefully review and strictly follow. Qualified designers and certified and/or licensed installers, with access to the final installation environment, customer goals, and Elemental LED product specifications can make the requisite decisions appropriate for a successful finished lighting application.