**HYDROLUME® SLIM IP68 LED Strip Light**

### FEATURES

- 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
- Deep Cold Resistant

### SPECIFICATION SHEET

#### HLS – STANDARD | HLSP – HD

<table>
<thead>
<tr>
<th>Voltage/Wattage</th>
<th>24v / 1.22W/ft.</th>
<th>24v / 2.44W/ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2700K</td>
<td>113 Lm/ft.</td>
<td>226 Lm/ft.</td>
</tr>
<tr>
<td>3000K</td>
<td>113 Lm/ft.</td>
<td>226 Lm/ft.</td>
</tr>
<tr>
<td>4000K</td>
<td>122 Lm/ft.</td>
<td>244 Lm/ft.</td>
</tr>
<tr>
<td>6500K</td>
<td>122 Lm/ft.</td>
<td>244 Lm/ft.</td>
</tr>
<tr>
<td>Max. Run¹</td>
<td>65 feet</td>
<td>32 feet</td>
</tr>
<tr>
<td>Cut Points</td>
<td>9.84 in</td>
<td>6.88 in.</td>
</tr>
<tr>
<td>LED Chips</td>
<td>8/foot</td>
<td>12/foot</td>
</tr>
<tr>
<td>Color Temperature</td>
<td>2700K, 3000K, 4000K, 6500K</td>
<td></td>
</tr>
<tr>
<td>CRI</td>
<td>80+</td>
<td></td>
</tr>
<tr>
<td>Dimmable</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Field Cuttable</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>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)</td>
<td></td>
</tr>
<tr>
<td>Environment²</td>
<td>Outdoor / Wet Location / Submersible IP68</td>
<td></td>
</tr>
<tr>
<td>Certification</td>
<td>UL Listed 2108 &amp; 676</td>
<td></td>
</tr>
<tr>
<td>Warranty</td>
<td>5-Year Standard, 2-Year Deep Cold²</td>
<td></td>
</tr>
</tbody>
</table>

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Specifications are subject to change without notice.
Toll Free: 877.817.6028 | Fax: 415.592.1596 | www.DiodeLED.com | info@DiodeLED.com
HYDROLUME® SLIM IP68 LED Strip Light

SKU BUILDER

<table>
<thead>
<tr>
<th>DI</th>
<th>24V</th>
<th>Model</th>
<th>Color Temp</th>
<th>Length</th>
<th>Driver* (Optional)</th>
<th>MOUNTING* (Optional)</th>
</tr>
</thead>
</table>

**MODEL**
- HLS
- HLSP

**COLOR TEMP**
- 27
- 30
- 40
- 65

**LENGTH**
- Length (in.)

**DRIVER***
- CONSTANT VOLTAGE (CV)
- ELECTRONIC (ELEC)
- MAGNETIC (MAG)
- TRIAC (TRI)
- 0-10V (010)
- SWITCHEX (SWX)
- LUTRON (LUT)

**MOUNTING***
- MOUNTING BRACKET (MBR)
- CHANNEL (CHN)

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

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**
# HYDROLUME® SLIM IP68 LED Strip Light

## CUT POINTS

### HYDROLUME® SLIM

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

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

First Increment: 10.31 in.

Last Increment: 9.92 in.

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

First Increment: 7.38 in.

Last Increment: 6.99 in.

### HYDROLUME® SLIM - HD

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

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

First Increment: 7.38 in.

Last Increment: 7.38 in.
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](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-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-0954-LPL</td>
<td>13.5 in.</td>
<td>4.5 in.</td>
<td>2.37 in.</td>
</tr>
</tbody>
</table>

**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>
<th>SKU</th>
<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)

ON/OFF, DMX, & PWM CONTROL (cont.)

VLM SERIES CONSTANT VOLTAGE DRIVER
Use Constant Voltage Drivers to power your low voltage tape light. Compatible with Standard 120VAC On/Off Switches, REIGN® 12-24V Low Voltage Dimmers, TOUCHDIAL™ Control System, DMX Decoders, and PWM Controls.

<table>
<thead>
<tr>
<th>SKU</th>
<th>Voltage &amp; Power Output</th>
<th>SKU</th>
<th>Voltage &amp; Power Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>L - LENGTH</td>
<td>W - WIDTH</td>
<td>L - LENGTH</td>
<td>W - WIDTH</td>
</tr>
<tr>
<td>H - HEIGHT</td>
<td></td>
<td>H - HEIGHT</td>
<td></td>
</tr>
<tr>
<td>VLM60W-24</td>
<td>60W</td>
<td>VLM100W-24</td>
<td>100W</td>
</tr>
<tr>
<td></td>
<td>24V24W</td>
<td></td>
<td>24V24W</td>
</tr>
</tbody>
</table>

OMNIDRIVE® 2 ELECTRONIC DIMMABLE LED DRIVER

<table>
<thead>
<tr>
<th>SKU</th>
<th>Voltage &amp; Power Output</th>
<th>SKU</th>
<th>Voltage &amp; Power Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>L - LENGTH</td>
<td>W - WIDTH</td>
<td>L - LENGTH</td>
<td>W - WIDTH</td>
</tr>
<tr>
<td>H - HEIGHT</td>
<td></td>
<td>H - HEIGHT</td>
<td></td>
</tr>
<tr>
<td>DI-OD2-24V24W</td>
<td>24V24W</td>
<td>DI-OD2-24V60W</td>
<td>24V60W</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DI-OD2-24V96W</td>
<td>24V96W</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DI-OD2-24V120W</td>
<td>24V120W</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DI-OD2-24V200W</td>
<td>24V200W</td>
</tr>
</tbody>
</table>
HYDROLUME® SLIM IP68 LED Strip Light

SPECIFICATION SHEET

LED DRIVERS (Required)

LUTRON OPTIONS

**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>
<th>W - WIDTH</th>
<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>
<tr>
<td>DI-DM-24V40W-LTE</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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>
<th>SKU</th>
<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>
ADDITIONAL ACCESSORIES

HYDROLUME® SLIM
Mounting Bracket (MBR)
Pack of 10. Material: TPU
DI-HLS-MTBR

HYDROLUME® SLIM
Mounting Channel (CHN)
(Length: 39.4in.) Material: PVC
DI-HLS-MTCH

SPECIFICATIONS

• Input: 24VDC Constant Voltage
• LED Chip Type: Cree 2835
• LED Chip Binning: 3-Step Macadam Ellipse
• LED Chip L70: >50,000 Hours
• LED Chip Beam Angle: 120°
• Luminous Efficacy \( \text{L} \) (lm/w): 92~100
• Mounting (sold separately): Mounting Bracket or PVC Mounting Channel (mounting channel required for UL 676)
• Leads: 4" - 480", White, SJTW, 18/2 AWG
• Ambient Temp 5°: -4 ~ 122°F (-20 ~ 50°C)
• Ambient Temp (Deep Cold) 2°: -40°F Min, Luminaire is required to be energized when temperature falls below -4°F
• Operating Temperature 6°: 4 ~ 176°F (-20 ~ 80°C)
• Flammability 7°: Flame retardant
• Jacket Material: UV/IR protected TPU
• IP68 Mold Material: TPU (Thermoplastic Polyurethane)
• UV Resistance: Yes but may still degrade over time

1. Lumen value measured in accordance to IES LM-80-08. LED chips have a luminous flux range with a tolerance of +/- 5%.
2. Deep Cold applications are warrantied for 2 years. Out of warranty condition is a greater than 25% loss of light output from initial installation.
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.

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.

COMPATIBLE DRIVERS

Additional information on compatible Drivers can be found on the Diode LED web site at: www.DiodeLED.com.
COMPLIANCE & REGULATORY APPROVALS

Safety
- UL Listed 2108 Low Voltage Lighting System / Low Voltage Luminaire. 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.

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.

Deep Cold application: This product has a two (2) year limited warranty from the date of shipment. Luminaire is required to be energized when temperatures fall below -4F. (If used outside of the minimum listed ambient temperature)

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.

ADDITIONAL INFORMATION
- HYDROLUME® SLIM LED STRIP LIGHT Installation Guide