



HD - High LED Density

### Field Cutable Outdoor Flexible LED Tape

Polyurethane encapsulation offering a premium water proof sealing, UV resistance, chemical stability against urban gazes and protection against abrasion. White lower casing for better light extraction. Special connectors enable easy cutting and sealing in the field. The first choice for homogeneous outdoor or humid cove lighting applications requiring IP67 ingress. Assembled using Reel to Reel (R2R) production process supporting LED Linear™ Tj Away® thin flexible circuit board technology. Outstanding lifetime of >60,000 hrs L80/B10. Each steps embeds 7 high quality LEDs with 3 step MacAdams (SDCM3) binning centered on target CCT (One Bin Only) with an extended photometric code of Wxxx/339 insuring an exceptional color consistency over the rated lifetime. Premium color rendition with a CRI of 95 and TM-30-15 up to R<sub>r</sub> = 91 / R<sub>g</sub> = 100. Consistent light intensity all along the strip. Fully dimmable. Engineered and produced in Germany.

Project name

Fixture type

Phase

Specifier

Date



Select Models Only



Indicated OS in order codes



Up to 514 lm/ft 125 lm/W constant light output



High Quality Solder Free Reels



Exceptional Thermal Dissipation



3 MacAdam up to 95 CRI



L80/B10 >60,000 hrs



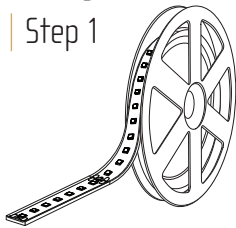
Wxxx/339



LM79/LM80 Compliant

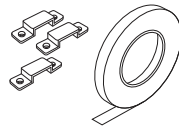
## Ordering Process

Step 1



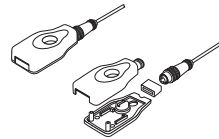
Fixture (Page 1)

Step 2



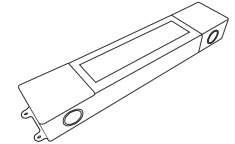
Mounting Accessories (Page 4)

Step 3



Cables and Connectors (Page 4)

Step 4



Drivers and Controllers (Page 5)

## LED Tape Order Code

Model	Lumen package*	Color rendering	Color temperature		Ingress
HYDRALUX	----	W_	--		IP67
	HD6-151 lm/ft	W8-85CRI	20-2500K	27-3800K (3600K for W9)	
	HD10-252 lm/ft	W9-95CRI**	22-2900K	30-4300K (4300K for W9)	
	HD15-514 lm/ft		25-3300K	35-5100K (4900K for W9)	

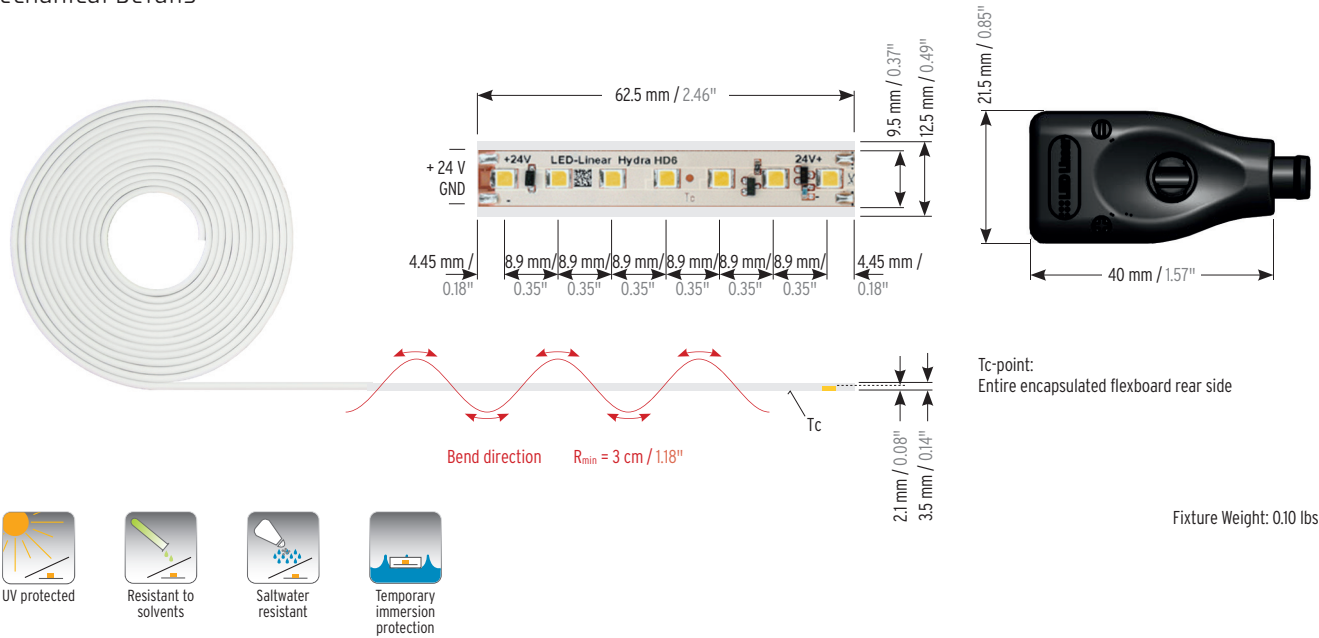
\* Lumen Values represent 5100K (W835)  
\*\* Not available for HD15

	Color temperature <sup>a</sup>	CCT (Delivered)	HD6		HD10		HD15	
			Lumen/ft	W/ft <sup>b</sup>	Lumen/ft	W/ft <sup>b</sup>	Lumen/ft	W/ft <sup>b</sup>
Static White	● W820	2,500 K	124	1.8	206	3.1	331	4.6
	● W822	2,900 K	142	1.8	237 OS	3.1	380 OS	4.6
	● W825	3,300 K	161	1.8	270 OS	3.1	435 OS	4.6
	● W827/W927	3,800 K/3,600 K	145	1.8	243	3.1	459	4.6
	● W830/W930	4,300 K/4,300 K	148	1.8	246	3.1	487	4.6
	● W835/W935	5,100 K/4,900 K	151	1.8	252	3.1	514	4.6

<sup>a</sup> CCT tolerances can occur in IP67 products due to the encapsulation of the LED chips.

<sup>b</sup> The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

## Mechanical Details



## Technical Details

	Static White
Step length	7 LEDs per 2" / 62.5 mm
Voltage	24 Volt (23 V <sub>min</sub> , 25 V <sub>max</sub> )
Case temperature <sup>A</sup>	T <sub>Cmin</sub> = -13°F / -25°C, T <sub>Cmax</sub> = 158°F / 70°C
Storage temperature	T <sub>Smin</sub> = -22°F / -30°C, T <sub>Smax</sub> = 185°F / 85°C
Ambient temperature	T <sub>Amin</sub> = -13°F / -25°C, T <sub>Amax</sub> = 104°F / 40°C

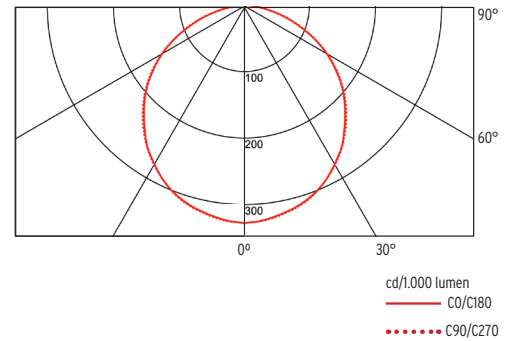
<sup>A</sup> The position of the Tc-point is marked on each step of the LED strip. The Tc-point should be measured in thermal equilibrium according to IEC EN 60598-1.

	Static White HD6	Static White HD10	Static White HD15
Power (W/ft) <sup>B</sup>	1.8	3.1	4.6
Efficacy (lm / W) <sup>B</sup> @ W835	118	118	125
CRI / R9 @ 3000 K	up to 95 / up to 65	up to 95 / up to 65	up to 95 / up to 65
Reel length (ft / m)	16.4 / 5	16.4 / 5	13.1 / 4
Watt/Reel (W) <sup>B</sup>	30	50	60
Number LED/Reel	560	560	480
Current	1.2 A/15 mA per Step	2 A/25 mA per Step	2.56 A/40 mA per Step

<sup>B</sup> The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

## Light Distribution

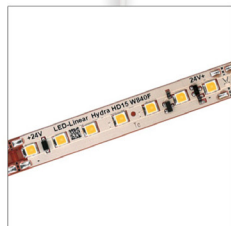
Static White



## Field Installation



**From the roll**  
HYDRALUX is delivered on a roll  
in the length of 13 to 24.5 feet.



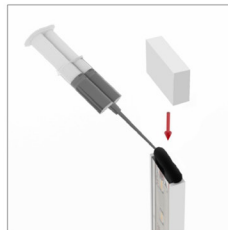
**High efficiency**  
24V, high efficiency and high  
power LED tapes of the latest  
generation. From 196 lm/ft up  
to 555 lm/ft. Consistent color  
through selected LED Binning (One  
Bin Only). High color rendering  
index of CRI >85 or CRI >90.



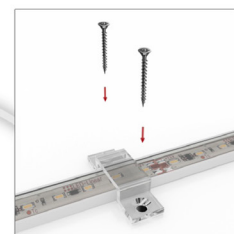
**Field cuttable**  
Unroll the tape and cut it at the  
desired length in the middle  
between the steps.



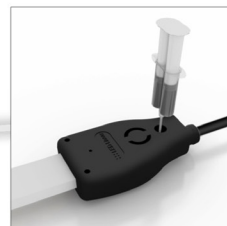
**Simple electrical  
connection**  
Insert the tape into the lower part  
of the two-part connector, then put  
on the upper part with the piercing  
contacts and push the two parts  
together.



**Perfect finish**  
With the polyurethane end cap you  
can protect the end of HYDRALUX  
against external influences.



**Quick installation**  
The attachment of HYDRALUX can  
be done with the surface mounting  
clips or a double sided 3M adhesive  
tape. (Available as accessories)





**Ready for use  
everywhere**  
Equip your luminaire for outdoor  
use. Secure total IP67 protection  
through the encapsulation of the  
connector in the shortest time.









**Time-saving**  
By applying the connector on one  
side and attaching the end cap on  
the other side, the product is ready  
for connection.

## Mounting Accessories

Item	Description	Dimensions (L x W x H)	Order Code
	Surface Mount Clip Clear plastic mounting clips. Use to mount the product on hard surfaces. Sold as set of 50 pieces.	3/8" x 1-3/8" x 1/4"	13000115
	Adhesive Tape Double sided 3M adhesive tape roll. Use to mount products on surfaces.	32' x 3/8"	18200035







## Cables and Connectors

Item	Description	Model	Dimensions	Order Code
	Hydralux IP67 Field Connector Use to run power from the driver to the beginning of the run. IP67 connector on one side and open lead on the other side. Use sealant to ensure IP67 ingress protection.	Static White RGB	2 x 22 Awg, 6.5 ft 4 x 23 Awg, 6.5 ft	15000237 15000239
	Hydralux IP67 Protection Cap Use to seal unused end of the tape in order to maintain IP67 ingress protection. Use sealant to finalize installation.	Static White / RGB	—	11000116
	Sealant Cartridge Two-component sealant cartridge. Use to obtain an IP67 protection in a short time. A separate mixing tube is needed. Contains sealant to fill around 26 components.	Static White / RGB	—	18200066
	Sealant Kit Professional grade two-component sealant kit, Use to obtain an IP67 protection in a short time. A mixing tube is included in the kit. Contains sealant to fill around 26 components.	Static White / RGB	—	18200065
	Sealant Mixing Tube Use to mix the two components within the sealant cartridge.	Static White / RGB	—	13100003
	Sealant Cartridge Pistol Use to comfortably handle and control the flow of the two-component sealant cartridge.	Static White / RGB	—	13100004

## Drivers

Item	Specifications	Downloads
<b>LED LINEAR™</b> Non-Dimmable Drivers 	<ul style="list-style-type: none"> <li>• UL 8750 Listed Enclosure - With Built-In Junction Boxes</li> <li>• Universal Input Voltage 120V - 277V</li> <li>• IP65 - For Both Indoor and Outdoor Use</li> <li>• No Minimum Load Requirement</li> <li>• 24V Constant Voltage Output, Class 2</li> <li>• Available in three wattages 30W, 60W and 96W</li> <li>• Max. Dimensions: 12-1/8" x 2-3/8" x 1-3/8"</li> </ul>	<a href="#">30 W SPEC SHEET</a> <a href="#">60 W SPEC SHEET</a> <a href="#">96 W SPEC SHEET</a> <a href="#">INSTALLATION INSTRUCTIONS</a>
<b>LED LINEAR™</b> 0-10V Dimmable Drivers 	<ul style="list-style-type: none"> <li>• UL 8750 Listed Enclosure - With Built-In Junction Boxes</li> <li>• 0-10V Dimmable - Flicker Free Down to 1%</li> <li>• Universal Input Voltage 120V - 277V</li> <li>• IP65 - For Both Indoor and Outdoor Use</li> <li>• 24V Constant Voltage Output, Class 2, Class P</li> <li>• Available in three wattages 30W, 60W and 96W</li> <li>• Max. Dimensions: 12-1/8" x 2-3/8" x 1-3/8"</li> </ul>	<a href="#">30 W SPEC SHEET</a> <a href="#">60 W SPEC SHEET</a> <a href="#">96 W SPEC SHEET</a> <a href="#">INSTALLATION INSTRUCTIONS</a>
<b>LED LINEAR™</b> ELV/Triac Dimmable Drivers 	<ul style="list-style-type: none"> <li>• UL 8750 Listed Class 2 Enclosure</li> <li>• 24V constant voltage output</li> <li>• Compact size yet high efficiency and performance in dry and damp environments (IP67)</li> <li>• Multiple Inputs: 120V or 277V</li> <li>• Fully dimmable: ELV Dimmers - Reverse or Adaptive Phase Control, Trailing Edge</li> <li>• Available in two wattages 48W and 96W</li> <li>• Multiple Circuits are available up to 4 units (up to 384W)</li> </ul>	<a href="#">48 W SPEC SHEET</a> <a href="#">96 W SPEC SHEET</a> <a href="#">INSTALLATION INSTRUCTIONS</a>
 PWM Dimmable Drivers 	<ul style="list-style-type: none"> <li>• Universal AC input / Full range (up to 305VAC)</li> <li>• Constant voltage PWM style output</li> <li>• Built-in 3 in 1 dimming function (0-10Vdc or PWM signal or resistance)</li> <li>• Dimming range : 0-100%</li> <li>• Class 2 power unit</li> <li>• Suitable for dry / damp / wet locations</li> <li>• UL Recognized component, 5 years warranty</li> </ul>	<a href="#">40 W SPEC SHEET</a> <a href="#">60 W SPEC SHEET</a> <a href="#">90 W SPEC SHEET</a> <a href="#">INSTALLATION INSTRUCTIONS</a>
 Dimmable Drivers 	<ul style="list-style-type: none"> <li>• UL Listed Enclosure</li> <li>• Dimming Range: 100% to 1% and 0.1% (Premiere)</li> <li>• LED lighting turns on to any dimmed level without flashing to full brightness</li> <li>• Operating Voltage: 120V~ to 277V~ at 50/60 Hz</li> <li>• Rated lifetime of 50,000 hours at 40°C (104°F) ambient temperature and maximum loading</li> <li>• For rated warranty, ambient temperature not to exceed 40°C (104°F)</li> <li>• Open-circuit protected output</li> </ul>	<a href="#">HI-LUME SPEC SHEET</a> <a href="#">HI-LUME PREMIERE SPEC SHEET</a> <a href="#">INSTALLATION INSTRUCTIONS</a>
<b>eldoLED</b> DALI/DMX Dimmable Drivers 	<ul style="list-style-type: none"> <li>• Available in linear or rectangular format</li> <li>• 100W, DMX/DALI interface for Static White, Tunable White and RGB/W Applications</li> <li>• 4 control channels</li> <li>• 24V constant voltage, 4 x 24V outputs</li> <li>• Metal or plastic case options</li> </ul>	<a href="#">100 W SPEC SHEET</a> <a href="#">INSTALLATION INSTRUCTIONS</a>

## Controllers

Item	Specifications	Downloads
	<b>180/D</b> DMX Controller for RGB/W and Tunable White Applications	<a href="#">180/D SPEC SHEET</a>
	<b>210/D</b> Dali Controller for Static White Applications	<a href="#">210/D SPEC SHEET</a>
	<b>211/D-LG</b> 0-10V Logarithmic Dimming Controller	<a href="#">211/D-LG SPEC SHEET</a>
	<b>211/D-LN</b> 0-10V Linear Dimming Controller	<a href="#">211/D-LN SPEC SHEET</a>
	<b>212/D</b> DMX Controller for Static White and Static Color Applications	<a href="#">212/D SPEC SHEET</a>
	<b>DimWheel</b> DMX Wall Controller for RGB/W and Tunable White Applications	<a href="#">DIM WHEEL SPEC SHEET</a>

Click for more information

PRODUCT BROCHURE

INSTALLATION

IES FILES

DRIVERS & CONTROLS

LED LINEAR TECHNOLOGY

QUICK SHIPPING

VOLTAGE DROP CALCULATOR