



Field Cuttable 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 indirect outdoor or humid cove lighting and other ambient 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 h L80/B10 (>30,000 for RGB). 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 $R_t = 91 / R_g = 100$. Consistent light intensity all along the strip. Fully dimmable. Engineered and produced in Germany.

Project name

Fixture type

Phase

Specifier

Date



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 /RGB >30,000 hrs



Wxxx/339

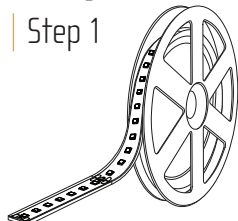


LM79/LM80 Compliant

LD - Low LED Density

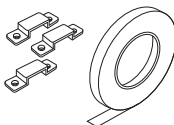
Ordering Process

Step 1



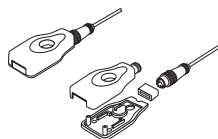
Fixture (Page 1)

Step 2



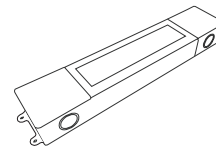
Mounting Accessories (Page 4)

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
	LD5-127 lm/ft	W8-85CRI	20-2500K	27-3800K (3600K for W9)	
	LD10-319 lm/ft	W9-95CRI**	22-2900K	30-4300K (4300K for W9)	
	LD15-514 lm/ft		25-3300K	35-5100K (4900K for W9)	
	RGB LD15-154 lm/ft	-	-		
	622nm (R), 532nm (G), 466nm (B)	-	-		

* Lumen Values represent 5100K (W835)

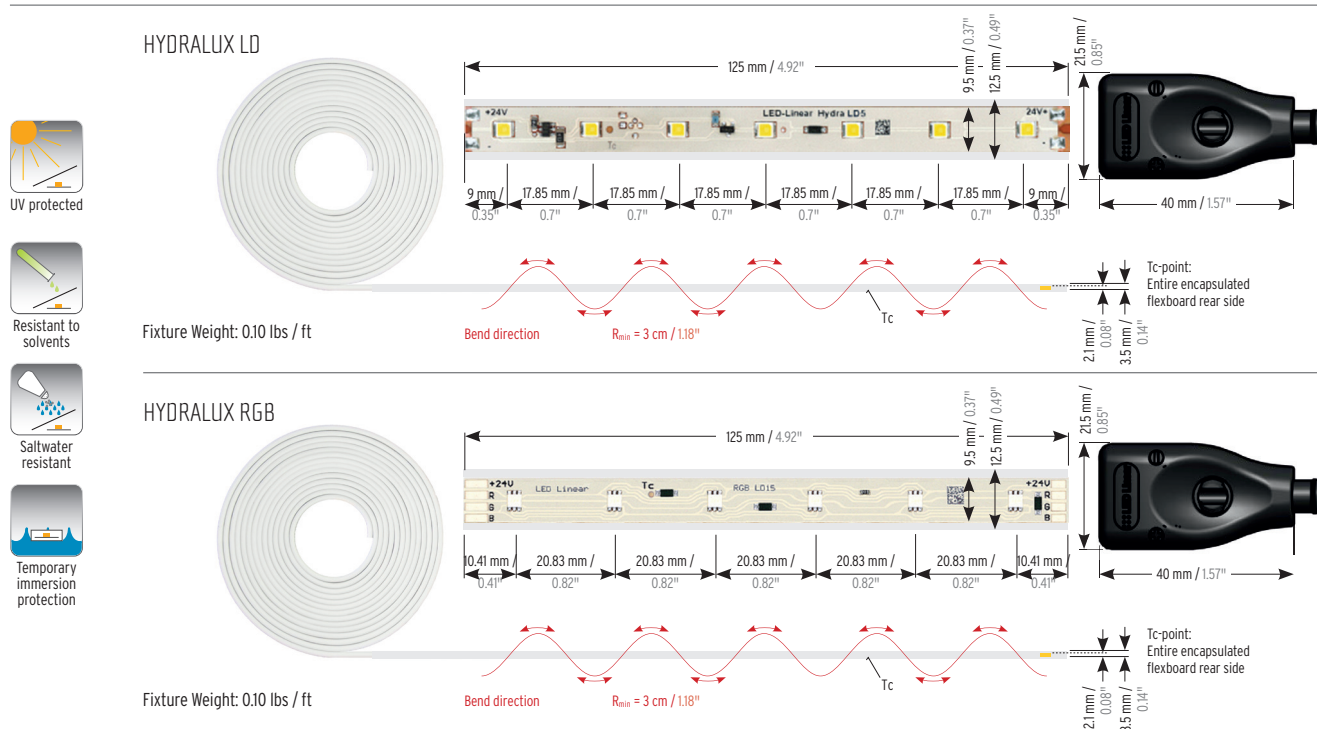
** Only available for LD05

		LD5				LD10		LD15	
		Color temperature ^A	CCT (Delivered)	Lumen/ft	W/ft ^B	Lumen/ft	W/ft ^B	Lumen/ft	W/ft ^B
Static White	●	W820	2,500 K	103	1.5	206	3.1	331	4.6
	●	W822	2,900 K	118 OS	1.5	237 OS	3.1	380	4.6
	●	W825	3,300 K	136 OS	1.5	270 OS	3.1	435	4.6
	●	W827 / W927	3,800 K / 3,600 K	121	1.5	289	3.1	459	4.6
	●	W830 / W930	4,300 K / 4,300 K	121	1.5	304	3.1	487	4.6
	●	W835 / W935	5,100 K / 4,900 K	127	1.5	319	3.1	514	4.6
	●								

^A CCT tolerances can occur in IP67 products due to the encapsulation of the LED chips.

^B 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 - Static White



Technical Details

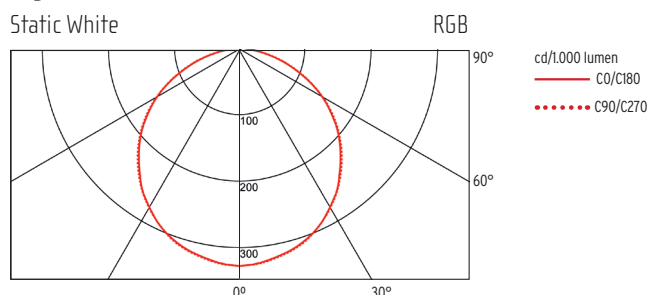
	Static White	RGB
Step length	7 LEDs per 4.92" / 125 mm	6 LEDs per 4.92" / 125 mm
Voltage	24 Volt (23 V _{min} , 25 V _{max})	24 Volt (23 V _{min} , 25 V _{max})
Case temperature ^A	T _{cmin} = -13°F / -25°C, T _{cmax} = 158°F / 70°C	T _{cmin} = -13°F / -25°C, T _{cmax} = up to 158°F / 70°C
Storage temperature	T _{smin} = -22°F / -30°C, T _{smax} = 185°F / 85°C	T _{smin} = -22°F / -30°C, T _{smax} = 185°F / 85°C
Ambient temperature	T _a _{min} = -13°F / -25°C, T _a _{max} = 104°F / 40°C	T _a _{min} = -13°F / -25°C, T _a _{max} = 113°F / 45°C

^A 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 LD5	Static White LD10	Static White LD15	RGB LD15
Power (W/ft) ^B	1.5	3.1	4.6	4.6
Efficacy (lm / W) ^B @ W850	118	118	125	33.6
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)	24.6 / 7.5	16.4 / 5	13.1 / 4	13.1 / 4
Watt/Reel (W) ^B	37.5	50	60	57.6
Number LED/Reel	420	280	224	192
Current	1.2 A/30 mA per Step	1.5 A/25 mA per Step	2.56 A/80 mA per Step	2.4 A/78 mA per Step

^B 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%.

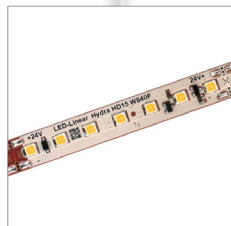
Light Distribution



Field Installation



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



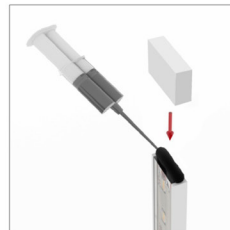
High efficiency
24V, high efficiency and high
power LED tapes of the latest
generation. From 196 lm/ft up
to 555 lm/ft. Consistent color
through selected LED Binning (One
Bin Only). High color rendering
index of CRI >85 or CRI >90.



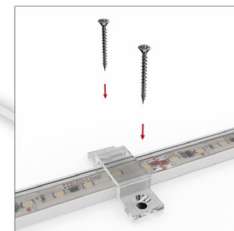
Field cuttable
Unroll the tape and cut it at the
desired length in the middle
between the steps.



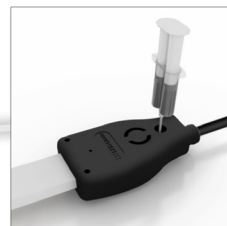
**Simple electrical
connection**
Insert the tape into the lower part
of the two-part connector, then put
on the upper part with the piercing
contacts and push the two parts
together.



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"	182000035


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

Controllers

Item	Specifications	Downloads
eldoLED Controllers 	<ul style="list-style-type: none"> 180/D DMX Controller for RGB/W and Tunable White Applications 210/D Dali Controller for Static White Applications 211/D-LG 0-10V Logarithmic Dimming Controller 211/D-LN 0-10V Linear Dimming Controller 212/D DMX Controller for Static White and Static Color Applications DimWheel DMX Wall Controller for RGB/W and Tunable White Applications 	180/D SPEC SHEET 210/D SPEC SHEET 211/D-LG SPEC SHEET 211/D-LN SPEC SHEET 212/D SPEC SHEET DIM WHEEL SPEC SHEET

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information

PRODUCT BROCHURE

INSTALLATION

IES FILES

DRIVERS & CONTROLS

LED LINEAR TECHNOLOGY

QUICK SHIPPING

VOLTAGE DROP CALCULATOR