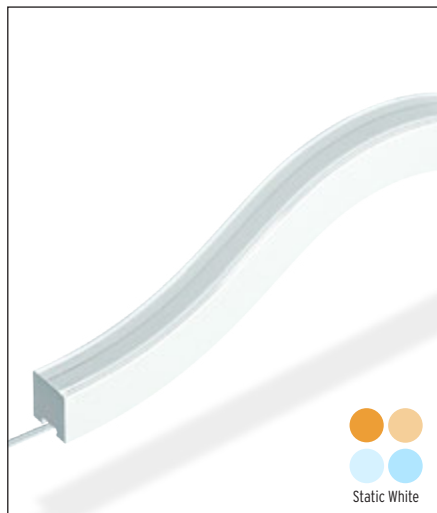




IP67 flexible dot free and perfectly homogeneous linear LED light line with a 0.71" x 0.67" (W x H) cross section. Opal polyurethane encapsulation offering a premium water proof sealing, UV resistance and chemical stability. True Color technology for an optimal rendition of the LED spectrum with minimal color shift. Vertical bending only, with radius of 5.9" offering the ideal solution for organic facade geometry. Usable for accent lighting or decorative applications requiring IP67 ingress. Freely configurable in length. Backside cable feed for an optimal fixture to fixture overlap. Light source 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. Embeds high quality CSP LEDs with 3 step MacAdams (SDCM3) binning centered on target CCT (One Bin Only) with an extended photometric code of Wxxx/339 ensuring an exceptional color consistency over the rated lifetime. Premium color rendition with a CRI of 95. Consistent light intensity all along the strip length. Fully dimmable. Engineered and produced in Germany.

Project name

Fixture type

Specifier

Phase

Date



Select Models Only



Minimal Color Shift



Up to 310 lm/ft 67 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

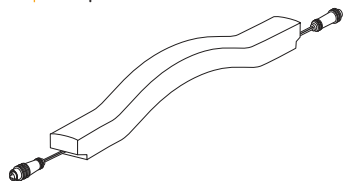


LM79/LM80 Compliant

TV - Vertical Bend

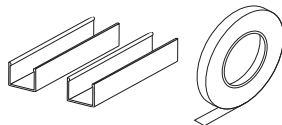
Ordering Process

Step 1



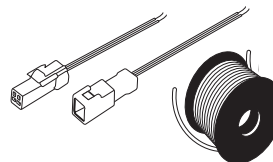
Fixture (Page 1)

Step 2



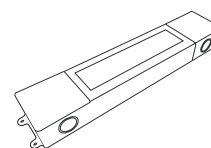
Mounting Accessories (Page 5)

Step 3



Cables and Connectors (Page 5)

Step 4



Drivers and Controllers (Page 6)

Fixture Order Code

Family	Model/Lumen package*	Variant	Color Rendering/Color Temperature	Custom length**	Ingress
VarioLED Flex	-----	--	----	-----	IP67
	VENUS TC - Low Output	TV - Vertical Bend	W821 - 85CRI, 2100K	L _{min} : 354 mm (1' 2")	
	100 lm/ft		W925 - 95CRI, 2500K	L _{max} : 3924 mm (12' 10-1/2")	
	PHOBOS TC - Mid Output		W927 - 95CRI, 2700K		
	160 lm/ft		W930 - 95CRI, 3000K	Increment: 70 mm (2-3/4")	
	SKYLLA TC - High Output		W934 - 95CRI, 3400K		
	240 lm/ft		W842 - 85CRI, 4200K		

* Lumen Values represent 3000K (W930)

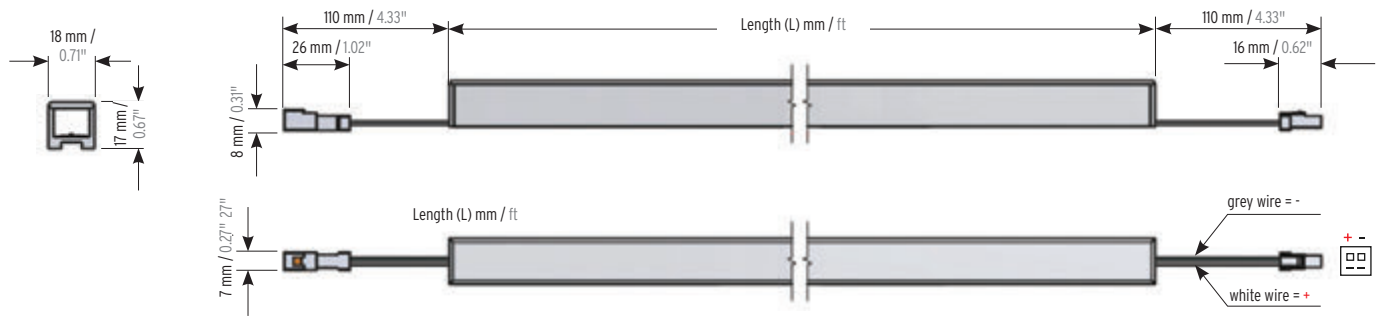
** Custom Length should be specified in millimeters (mm). See page 4 for all available lengths.

			Low Output			Mid Output		High Output	
			Color temperature ^A	Lumen/ft	W/ft ^B	Lumen/ft	W/ft ^B	Lumen/ft	W/ft ^B
Static White		W821	2,100 K	80	1.8	150	3	220	4.6
		W925	2,500 K	90	1.8	160	3	230	4.6
		W927	2,700 K	90	1.8	160	3	240	4.6
		W930	3,000 K	100	1.8	160	3	240	4.6
		W934	3,400 K	100	1.8	170	3	240	4.6
		W842	4,200 K	120	1.8	210	3	310	4.6

^A CCT tolerances occur in IP67 products due to the encapsulation of the fixture.

^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



TV Version Bending Direction
 $R_{min} = 15 \text{ cm} / 5.91''$

IP67 plug in connector (male / female) on both ends. Fixtures at maximum length ships with one male connector only.

Fixture Weight: 0.22 lbs / ft

Technical Details

Voltage	24 Volt (23 V_{min} , 25 V_{max})
Case temperature ^A	$T_{cmin} = -4^{\circ}\text{F} / -20^{\circ}\text{C}$, $T_{cmax} = 149^{\circ}\text{F} / 65^{\circ}\text{C}$
Storage temperature	$T_{smin} = -22^{\circ}\text{F} / -30^{\circ}\text{C}$, $T_{smax} = 185^{\circ}\text{F} / 85^{\circ}\text{C}$
Ambient temperature	$T_{amin} = -4^{\circ}\text{F} / -20^{\circ}\text{C}$, $T_{amax} = \text{specific, see Table below}$

^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.

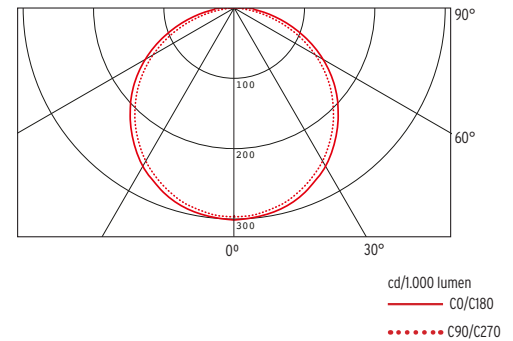
	Low Output	Mid Output	High Output
Power (W/ft) ^B	1.8	3	4.6
Efficacy (lm / W) ^B @ W842	63	66	67
CRI / R ₉ @ 3000 K	95 / 86	95 / 86	95 / 86
R _r / R _g @ 3000 K	92 / 101	92 / 101	92 / 101
Max fixture length (ft / m)	12.9 / 4	12.9 / 4	12.9 / 4
Max serial run length (ft / m) ^B	39.4 / 12	30.0 / 9	20.0 / 6
Temperature Tc-point (T_{cmax}) ^C	149°F / 65°C	149°F / 65°C	149°F / 65°C
Max ambient temperature (T_{amax})	122°F / 50°C	122°F / 50°C	104°F / 40°C

^B With supply voltage > 23.5 V

^C 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

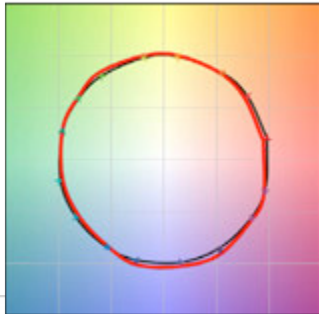
VENUS TC TV IP67 - Static White



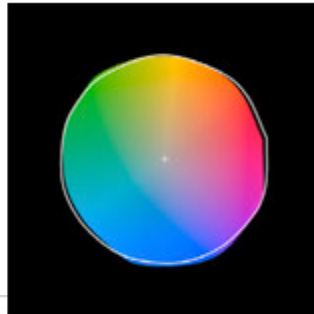
Colorimetric Details - Venus TC TV IP67

Photometric Code	CCT	R _a / CRI	R9	TM-30-15 / R _f	TM-30-15 / R _g
W934	3400 K	95	86	92	101

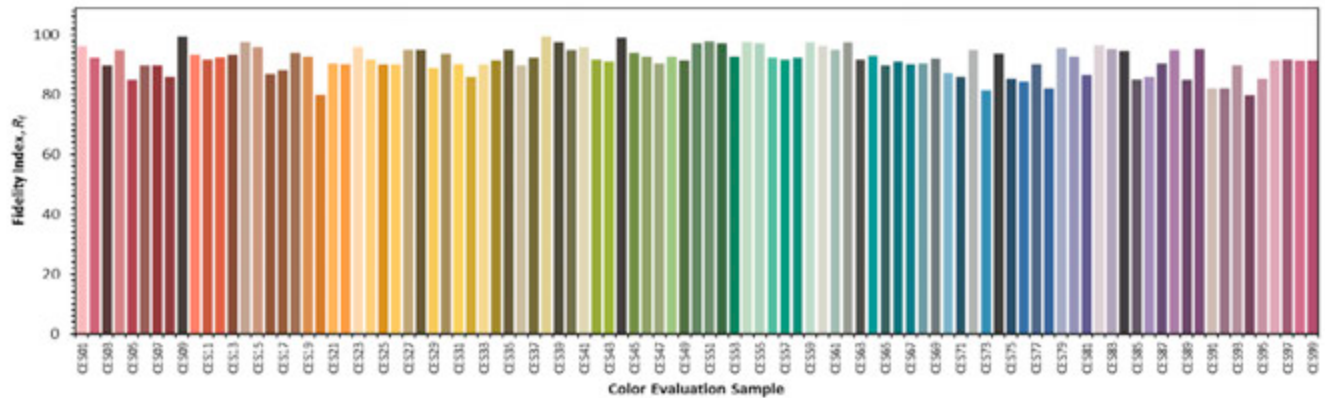
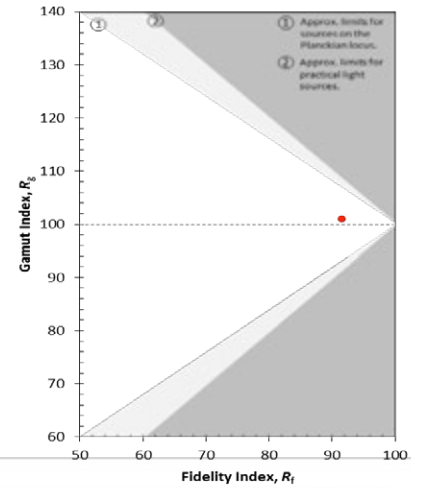
Color
Vector
Graphic



Color
Distortion
Graphic



Reference
Illuminant
Test Source



LENGTH CHART - Venus TC TV IP67

Fixture length		Static White					
		Low Output 1.8 Watts/Ft		Medium Output 3.1 Watts/Ft		High Output 4.6 Watts/Ft	
inches	mm	Watts/fixture	Lumens/fixture @W930K	Watts/fixture	Lumens/fixture @W930K	Watts/fixture	Lumens/fixture @W830K
13.9	354	2	105	4	186	5	279
16.7	424	3	125	4	223	6	334
19.5	494	3	146	5	259	7	389
22.2	564	3	166	6	296	9	444
25.0	634	4	187	6	333	10	499
27.7	704	4	208	7	369	11	554
30.5	774	5	228	8	406	12	609
33.2	844	5	249	8	443	13	664
36.0	914	5	270	9	480	14	720
38.7	984	6	290	10	516	15	775
41.5	1054	6	311	10	553	16	830
44.3	1124	7	332	11	590	17	885
47.0	1194	7	352	12	627	18	940
49.8	1264	7	373	12	663	19	995
52.5	1334	8	394	13	700	20	1050
55.3	1404	8	414	14	737	21	1105
58.0	1474	9	435	15	774	22	1160
60.8	1544	9	456	15	810	23	1215
63.5	1614	10	476	16	847	24	1271
66.3	1684	10	497	17	884	25	1326
69.1	1754	10	518	17	920	26	1381
71.8	1824	11	538	18	957	28	1436
74.6	1894	11	559	19	994	29	1491
77.3	1964	12	580	19	1031	30	1546
80.1	2034	12	600	20	1067	31	1601
82.8	2104	12	621	21	1104	32	1656
85.6	2174	13	642	21	1141	33	1711
88.4	2244	13	662	22	1178	34	1766
91.1	2314	14	683	23	1214	35	1822
93.9	2384	14	704	23	1251	36	1877
96.6	2454	14	724	24	1288	37	1932
99.4	2524	15	745	25	1325	38	1987
102.1	2594	15	766	26	1361	39	2042
104.9	2664	16	786	26	1398	40	2097
107.6	2734	16	807	27	1435	41	2152
110.4	2804	17	828	28	1472	42	2207
113.2	2874	17	848	28	1508	43	2262
115.9	2944	17	869	29	1545	44	2318
118.7	3014	18	890	30	1582	45	2373
121.4	3084	18	910	30	1618	47	2428
124.2	3154	19	931	31	1655	48	2483
126.9	3224	19	952	32	1692	49	2538
129.7	3294	19	972	32	1729	50	2593
132.4	3364	20	993	33	1765	51	2648
135.2	3434	20	1014	34	1802	52	2703
138.0	3504	21	1034	34	1839	53	2758
140.7	3574	21	1055	35	1876	54	2813
143.5	3644	22	1076	36	1912	55	2869
146.2	3714	22	1096	37	1949	56	2924
149.0	3784	22	1117	37	1986	57	2979
151.7	3854	23	1138	38	2023	58	3034
154.5	3924	23	1158	39	2059	59	3089

Mounting Accessories

Item	Description	Dimensions (L x W x H)	Order Code
	Low Surface Mounting Clip & Channel Aluminum, surface mounting accessories. Available as 1" short clips, 6.5' and 13' long continuous mounting channel. Clips are recommended to use at most 12 inches apart. White finish.	1-1/4" x 7/8" x 6/8" 6' 6" x 7/8" x 6/8" 13' x 7/8" x 6/8"	13000277 10000552 10000552-4M
	High Surface Mounting Clip & Channel Aluminum, surface mounting accessories with cable raceway underneath. Available as 1" short clips, 6.5' and 13' continuous mounting channel. Clips are recommended to use at most 12 inches apart. White finish.	1-1/4" x 7/8" x 1" 6' 6" x 7/8" x 1" 13' x 7/8" x 1"	13000278 10000553 10000553-4M
	Clear Surface Holding Clamp Surface mounting clamp, fix to the surface with screws. UV stable transparent plastic material. Recommended to use at most every 18 inches. White finish.	5/8" x 2" x 3/4"	13000279
	Flexible Pendant Mounting System Aluminum segmented system for curvatures, pendant set needed every three feet. White finish.	6' 6" x 7/8" x 1"	10000554
	Pendant Set Steel aircraft cable, available in two lengths. At least 2 pendant sets per 3' are required for flexible pendant channel (1000554).	6' 1/2" cable length 16' 3/8" cable length	13000273 13000274
	Recessed Mounting Channel Aluminum recessed mounting channel with pre-mounted mounting springs and decorative cover strips. Available as 6.5' and 13' lengths. White finish.	6' 6" x 1-1/2" x 1-3/4" 13' x 1-1/2" x 1-3/4"	10000559 10000559-4M
	End Caps End cap set (2 pieces) for recessed mounting channel. White finish.	7/8" x 1-3/8" x 1-7/8"	11000214
	Adhesive Tape for Surface Mounting High quality adhesive tape, use to install the product on glossy or rough surfaces.	164' x 3/4"	18200135

Cables and Connectors

Item	Description	Model	Dimensions	Order Code
	Cable IP68 for Static White Outdoor rated UL approved cable. Use to extend installation distance with outdoor rated splicing box (by others).	Static White	2 x 22 AWG, 160 ft	14000030
	Mini Female Connector IP67 for Static White Use to run cable from the driver to the first fixture of the run or to the next fixture. Female mini connector on one side and open end cable on the other side.	Static White Static White	2 x 22 Awg, 8 in 2 x 22 Awg, 6.5 ft	15000141 15000142
	Mini Male Connector IP67 for Static White Use to run cable from the fixture to the driver or to the previous fixture. Male mini connector on one side and open end cable on the other side.	Static White	2 x 22 Awg, 8 in	15000140
	Mini Extension IP67 for Static White Use to extend the distance between connection points. Female connector on one side and male connector on the other side.	Static White Static White	2 x 22 Awg, 4 in 2 x 22 Awg, 6.5 ft	15000143 15000144
	Mini Female Protection Cap IP67 for Static White Use to seal unused connectors and maintain IP67 ingress protection.	Static White	—	15000218

Drivers

Item	Specifications	Downloads
LED LINEAR™ Non-Dimmable Drivers 	• 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 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 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 	• 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
OLUTRON Dimmable Drivers 	• 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 	• 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
	180/D DMX Controller for RGB/W and Tunable White Applications	180/D SPEC SHEET
	210/D Dali Controller for Static White Applications	210/D SPEC SHEET
	211/D-LG 0-10V Logarithmic Dimming Controller	211/D-LG SPEC SHEET
	211/D-LN 0-10V Linear Dimming Controller	211/D-LN SPEC SHEET
	212/D DMX Controller for Static White and Static Color Applications	212/D SPEC SHEET
	DimWheel DMX Wall Controller for RGB/W and Tunable White Applications	DIM WHEEL SPEC SHEET

Click for more
information

PRODUCT BROCHURE

INSTALLATION

IES FILES

DRIVERS & CONTROLS

LED LINEAR TECHNOLOGY

VOLTAGE DROP CALCULATOR