

HD - High LED Density

24V, flexible LED strip with reflective, white surface and 3M adhesive tape on the back. Step measurement of 2.8" and static color LEDs provide atmospheric light and color accents for every application. Reel to Reel (R2R) produced flexible circuit board material with 120 degree beam angle and L80 of >50,000 hrs. Constant current source on the circuit board for even lumen output over full length and extended life expectancy. Protected against electrostatic discharge $\pm 2,000$ V. Fully dimmable and engineered in Germany.

Project name

Fixture type

Specifier

Phase

Date

**Integrated
Circuit
Driver**
Up to 300 lm/ft 95 lm/W
constant light output

ETL
Intertek
ETL Listed

**Reel-to-Reel
R2R
Production**
High Quality
Solder Free Reels

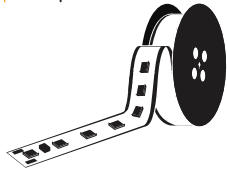
**TjAway®
Thermal
Management**
Exceptional Thermal
Dissipation

**L/B
Lifetime**
L80 50,000 hrs

**IES
LM79/LM80**
LM79/LM80 Compliant

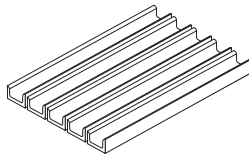
Component Ordering Process – For Factory Assembled Fixtures, see page 5

Step 1



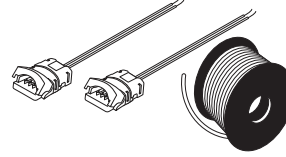
LED Tape (Page 1)

Step 2



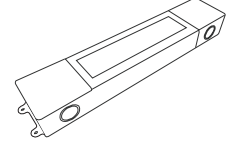
Profiles and Optics (Page 3-4)

Step 3



Cables and Connectors (Page 2)

Step 4



Drivers and Controllers (Page 5)

LED Tape Order Code

Family	Model	Light Color
VarioLED Flex	ECO COLOR P12	—
		R – Red 620nm
		G – Green 520nm
		B – Blue 455nm

Static Color		Color (λ_d) ^A	Lumen/ft ^A	W/ft ^A	Efficacy lm/W ^A
●	RGB Red	620 nm	160	3.14	50
●	RGB Green	520 nm	300	3.14	95
●	RGB Blue	455 nm	50	3.14	16

^A 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%.

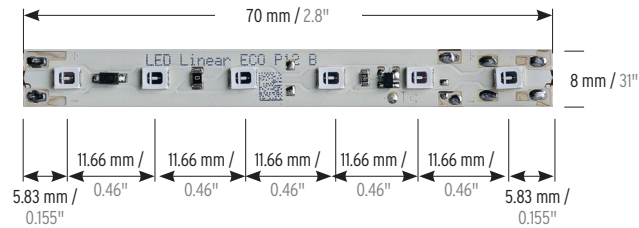
Technical Details

Step length	6 LEDs per 2.8" / 70 mm
Voltage	24 Volt (23 V _{min} , 25 V _{max})
Power (W / ft) ^B	3.14
Reel length (ft / m)	16.54 / 5
Watt / Reel (W) ^B	52
Number LED / Reel	232
Case temperature ^C	T _{Cmin} = -13°F / -25°C, T _{Cmax} = 158°F / 70°C
Storage temperature	T _{Smin} = -22°F / -30°C, T _{Smax} = 122°F / 50°C
Ambient temperature	T _{Amin} = -13°F / -25°C, T _{Amax} = 122°F / 50°C

^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%.

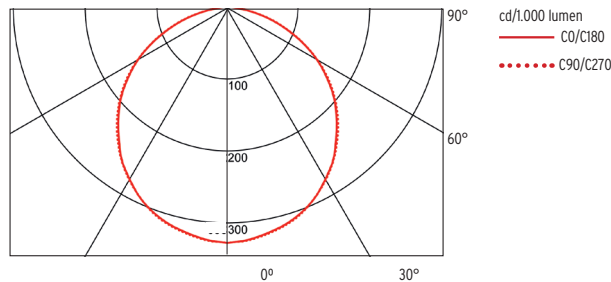
^C The position of the Tc-point is marked on each step of the LED strip. The Tc-point should be measured in thermal equilibrium according to IEC EN 60598-1.

Mechanical Details



Light Distribution


Static Color



Dominant Wavelength (λ_d)

	Red (R)	Green (G)	Blue (B)
Min	610	510	450
Typ	620	520	455
Max	630	530	460

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
	Field Connector for Static White (8mm)	Use to connect 8mm wide LED tape to another 8mm wide LED tape or two 18-22 gauge lead wires. Clear plastic.	Tape to Tape Tape to Wire	0.8" x 0.4" x 0.4" 1.1" x 0.5" x 0.4"	K082SS K082SW
	Mini Female Connector IP20 for Static White	Use to connect the driver to the beginning of the LED tape run or to the next LED tape section. Female mini connector on one side and open end cable on the other side.	Static White Static White	2 x 22 Awg, 4 in 2 x 22 Awg, 6.5 ft	15000146 15000147
	Mini Male Connector IP20 for Static White	Solder the male connector on the LED tape in order to make connection to the driver or to the previous LED tape section. Male mini connector on one side and open end cable on the other side.	Static White	2 x 22 Awg, 4 in	15000145
	Mini Extension IP20 for Static White	Use to extend the distance between connection points. Female mini connector on one side and male mini connector on the other side.	Static White Static White	2 x 22 Awg, 3.2 ft 2 x 22 Awg, 6.5 ft	15000148 15000149
	Cable Strain Relief	Use to hold cable in place and eliminate misconnections	Static White / Tunable White / RGB	—	14000041


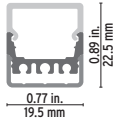

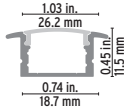

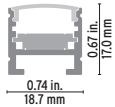

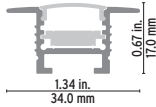
Mounting Accessories

Item	Description	Dimensions (L x W x H)	Order Code
	Flat aluminium mounting channel for heat dissipation. Bendable with silver finish. Screws directly onto surface.	6-1/2" x 1" x 1/16"	10000004


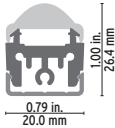
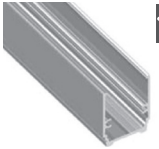
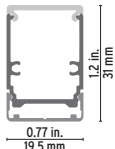


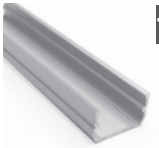
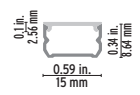
Profiles and Optics (Optional)

Note: All profiles are delivered in standard 6.5 ft. (2m) length

ECO LINES – High Versatility & Best Value.

Item	Max. Dimensions	Specifications	Downloads
Contour 0002 		Application: Surface Mount, Max. 7.6 W/ft Features: High Efficacy, High Surface Area for Heat Dissipation, Dot Free with HD and UHD Tapes Cable Feed: End (E), Side (S)	C 0002 SPEC SHEET C 0002 INSTALLATION
Contour 1300 		Application: Recessed Mount with Flange, Max. 4.7 W/ft Features: Black and Silver Finish Options, Compact and Versatile Design, Dot Free with HD and UHD tapes Cable Feed: Behind (B)	C 1300 SPEC SHEET C 1300 INSTALLATION
Contour 1400 		Application: Surface and Pendant Mount, Max. 6.3 W/ft Features: Beam Adjustability, Black, White and Silver Finish Options, Compact and Versatile Design, Dot Free with HD and UHD tapes Cable Feed: End (E), Behind (B)	C 1400 SPEC SHEET C 1400 INSTALLATION
Contour 1500 		Application: Recessed Mount with Flange, Max. 6.3 W/ft Features: Beam Adjustability, Silver and White Finish Options, Compact and Versatile Design, Dot Free with HD and UHD tapes Cable Feed: Behind (B)	C 1500 SPEC SHEET C 1500 INSTALLATION


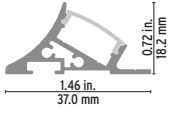
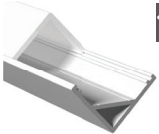
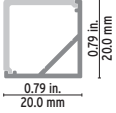


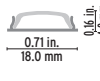

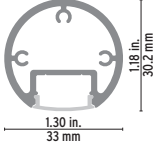
PERFORMANCE LINES – High Efficacy & Superior Light Quality. Dot-Free.

Item	Max. Dimensions	Specifications	Downloads
Contour 0016 		Application: Surface Mount, Max. 12 W/ft Features: High Efficacy, High Surface Area for Heat Dissipation, Linear Lens Options, Dot Free with HD and UHD Tapes Cable Feed: End (E)	C 0016 SPEC SHEET C 0016 INSTALLATION
Contour 0022 		Application: Surface Mount, Max. 4.7 W/ft Features: Dot Free with LD, HD and UHD Tapes, Deep Profile Cable Feed: End (E)	C 0022 SPEC SHEET C 0022 INSTALLATION
Contour 0024 		Application: Surface and Pendant Mount, Max. 7.6 W/ft Features: High Efficacy, Linear Lens Options, Dot Free with HD and UHD Tapes, Round Profile Cable Feed: Behind (B)	C 0024 SPEC SHEET C 0024 INSTALLATION
Contour 0036 		Application: Surface Mount, Trimless Mount, Max 4.7 W/ft Features: High Efficacy, Dot Free with UHD Tape, New Construction, Blends Seamlessly into the Architecture Cable Feed: End (E), Behind (B)	C 0036 SPEC SHEET C 0036 INSTALLATION

Profiles and Optics (Optional)

Note: All profiles are delivered in standard 6.5 ft. (2m) length



NICHE LINES – Solutions for Challenging Applications.

Item	Max. Dimensions	Specifications	Downloads
Contour 1650	 	Application: Undercabinet, Surface Mount, Display Lighting, Max. 4.7 W/ft Features: 30° Tilted Design, Black, White and Silver Finish Options Cable Feed: Behind (B)	C 1650 SPEC SHEET C 1650 INSTALLATION
Contour 2000	 	Application: Undercabinet, Corner Mount, Display Lighting, Max. 4.7 W/ft Features: 45° Tilted Design, Silver Finish Cable Feed: End (E)	C 2000 SPEC SHEET C 2000 INSTALLATION
Contour 4500	 	Application: Wall Mount, Display Lighting, Max. 4.7 W/ft Features: Small Footprint, Round Profile, Silver and Black Finishes, Versatile Mounting Accessories Cable Feed: End (E)	C 4500 SPEC SHEET C 4500 INSTALLATION
Contour 5560	 	Application: Surface Mount, Max. 4.7 W/ft Features: Super Shallow Profile, Bendable Design, Installs around Curves Cable Feed: End (E)	C 5560 SPEC SHEET C 5560 INSTALLATION
Contour 7850	 	Application: In-Closet Rod, Max. 4.7 W/ft Features: Round Profile, NEC Closet Rated Cable Feed: End (E), Behind (B)	C 7850 SPEC SHEET C 7850 INSTALLATION

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  	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

PROFILES & OPTICS

DRIVERS & CONTROLS

LED LINEAR TECHNOLOGY

VOLTAGE DROP CALCULATOR