

24 V Constant Voltage flexible LED strip with 3M adhesive tape on the back. With a step measurement of 4.9" and a small LED pitch of 0.7"; the first choice for human centric lighting and retail lighting. Assembled using state of the art automated 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 LEDs with 3 step MacAdams (SDCM3) binning centered on target CCT (One Bin Only). Purple primary light source in conjunction with 3 phosphors LED packages offering a sun-like light and minimal blue peak. Premium color rendition with a CRI of 98 (R9 = 85) and TM-30-15 up to $R_t > 96$ / $R_g = 101$ ensuring a remarkable light quality. Consistent light intensity all along the luminaire length is obtained thanks to active current regulation operated by dedicated integrated circuits (ICs) on each step. Fully dimmable. Engineered and produced in Germany.

Project name

Fixture type

Specifier

Phase

Date



Select Models Only



ETL Listed



Up to 810 lm/ft 109 lm/W
constant light output



High Quality
Solder Free Reels



Exceptional Thermal
Dissipation



3 MacAdam up to
98 CRI



L80/B10 >60,000 hrs



Wxxx/339

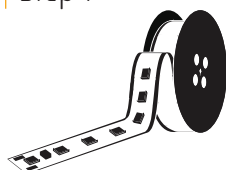


LM79/LM80 Compliant

LD - Low LED Density

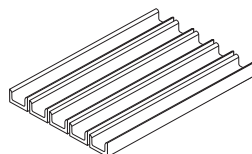
Component Ordering Process - For Factory Assembled Fixtures, see page 6

Step 1



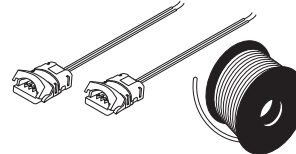
LED Tape (Page 1)

Step 2



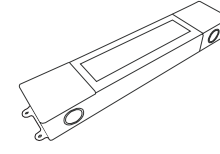
Profiles and Optics (Page 4-5)

Step 3



Cables and Connectors (Page 6)

Step 4



Drivers and Controllers (Page 7)

LED Tape Order Code

Family	Model	Lumen package*	Color rendering	Color temperature
VarioLED Flex	-----	LD__	W9	--
	SOL - Static White	LD15 - 500 lm/ft LD25 - 810 lm/ft	W9 - 98CRI	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K 50 - 5000K
	IQ White SOL - Tunable White	LD20 - 410 lm/ft		-

* Lumen Values represent 5000K for Static White and 6500K for Tunable White

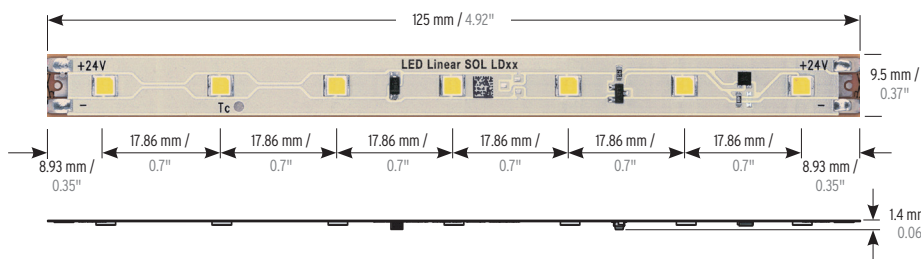
			LD15			LD25 ^B			LD20 ^B		
			CCT	Lumen/ft	W/ft ^A	Lumen/ft	W/ft ^A		Lumen/ft	W/ft ^A	
Static White	●	W927	2,700 K	460	4.7	740	7.6	-	-	-	-
	●	W930	3,000 K	480	4.7	780	7.6	-	-	-	-
	●	W935	3,500 K	490	4.7	790	7.6	-	-	-	-
	●	W940	4,000 K	500	4.7	800	7.6	-	-	-	-
	●	W950	5,000 K	500	4.7	810	7.6	-	-	-	-
Tunable White	●	W927	2,700 K	-	-	-	-	370	-	6	-
	●	W965	6,500 K	-	-	-	-	410	-	6	-
	●	Total	2,700 K - 6,500 K	-	-	-	-	780	-	6	-

^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%.

^B Tapes that consume more than 4.6 W/ft must be coupled with a heatsink.

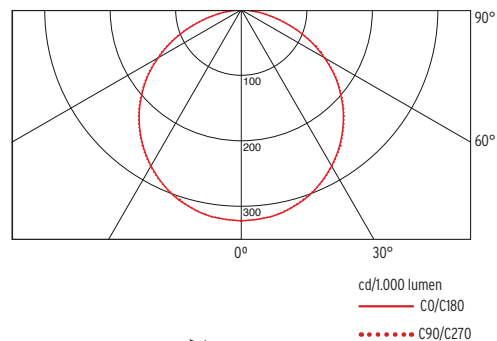
Mechanical Details

Static White - Cuttable Length 7 LEDs per 4.92" (125 mm)

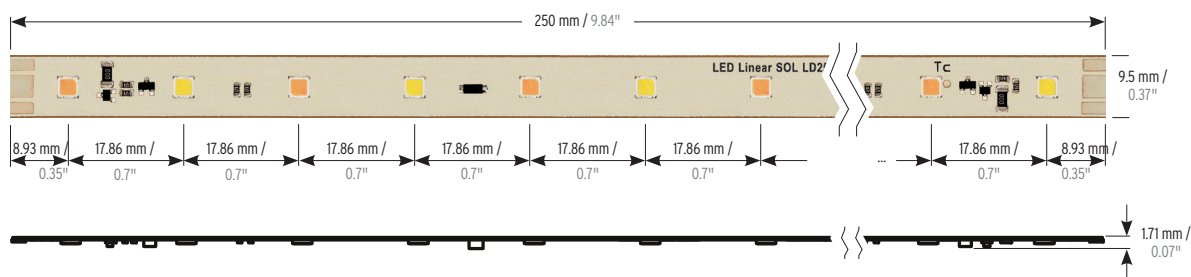


Light Distribution

Static White - Tunable White



Tunable White - Cuttable Length 14 LEDs per 9.84" (250 mm)



Technical Details

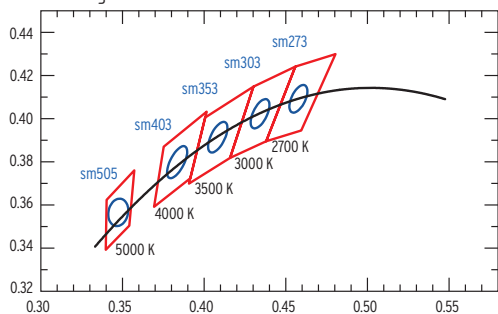
	Static White	Tunable White
Step length	7 LEDs per 4.92" / 125 mm	14 LEDs per 9.84" / 250 mm
Voltage	24 Volt (23 V _{min} , 25 V _{max})	24 Volt (23 V _{min} , 25 V _{max})
Case temperature ^A	T _{Cmin} = -13°F / -25°C, T _{Cmax} = 176°F / 80°C	T _{Cmin} = -13°F / -25°C, T _{Cmax} = 176°F / 80°C
Storage 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 _{Amin} = -13°F / -25°C, T _{Amax} = specific, see table below	T _{Amin} = -13°F / -25°C, T _{Amax} = 95°F / 35°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.

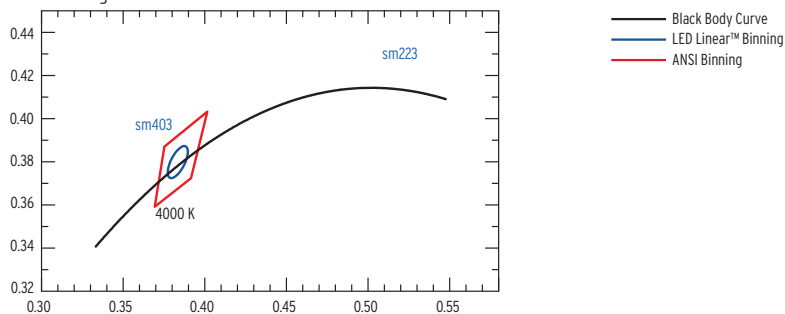
	Static White		Tunable White
	LD15	LD25	LD20
Power (W/ft) ^B	4.7	7.6	6
Efficacy (lm / W) ^B @ 5000 K	109	107	85
CRI / R ₉ @ 3000 K	98 / 85	98 / 85	98 / 85
R _i / R _g @ 3000 K	96 / 101	96 / 101	96 / 101
Reel length (ft / m)	13.1 / 4	9.8 / 3	6.6 / 2
Watt / Reel (W) ^B	45	50	50
Number LED/Reel	168	112	112
Max ambient temperature (T _{Amax})	113°F / 45°C	104°F / 40°C	95°F / 35°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%.

Binning Static White



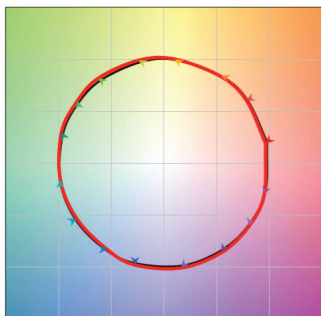
Binning Tunable White



Colorimetric Details - SOL LD

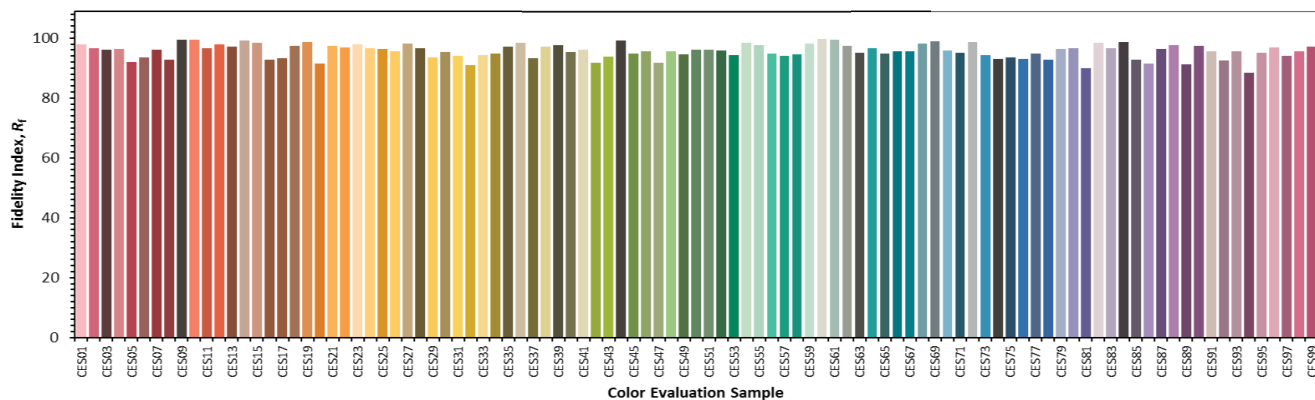
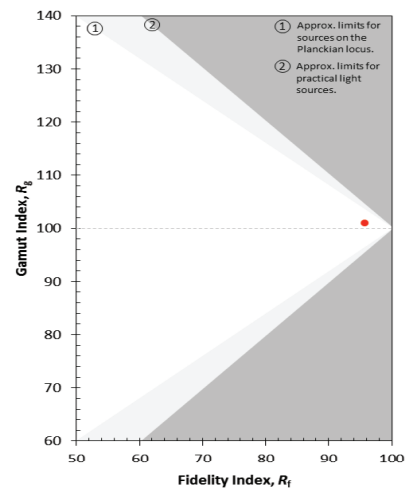
Photometric Code	CCT	R _a / CRI	R9	TM-30-15 / R _f	TM-30-15 / R _g
W930	3000 K	97	85	96	101

Color
Vector
Graphic



Reference
Illuminant
Test Source


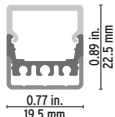
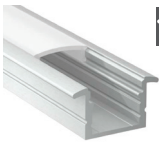
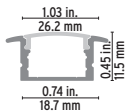
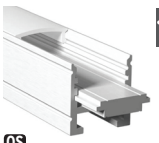
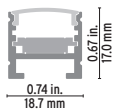

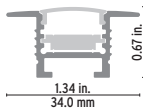
Color
Distortion
Graphic




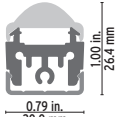
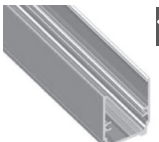
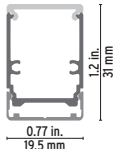

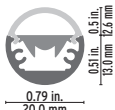
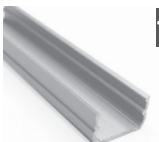
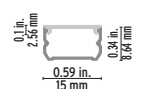
Profiles and Optics (Optional)

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		 0.89 in. 22.5 mm 0.77 in. 19.5 mm	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		 1.03 in. 26.2 mm 0.45 in. 11.5 mm 0.74 in. 18.7 mm	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		 0.67 in. 17.0 mm 0.74 in. 18.7 mm	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		 0.67 in. 17.0 mm 1.34 in. 34.0 mm	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


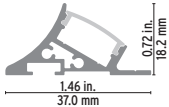
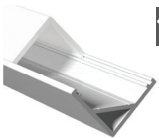
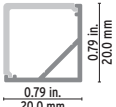

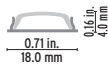

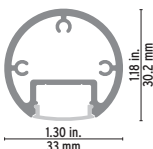
PERFORMANCE LINES – High Efficacy & Superior Light Quality. Dot-Free.

Item		Max. Dimensions	Specifications	Downloads
Contour 0016		 1.00 in. 25.4 mm 0.79 in. 20.0 mm	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		 1.2 in. 31 mm 0.77 in. 19.5 mm	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		 0.51 in. 13.0 mm 0.79 in. 20.0 mm	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		 0.1 in. 2.5 mm 0.59 in. 15 mm 0.34 in. 8.6 mm	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






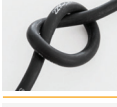





Profiles and Optics (Optional)

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 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

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 (10mm)	Use to connect 10mm wide LED tape to another 10mm wide LED tape or two 18-22 gauge lead wires. Clear plastic.	Tape to Tape Tape to Wire	0.8" x 0.5" x 0.4" 1.1" x 0.6" x 0.4"	K0102SS K0102SW
	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 misconections	Static White / Tunable White / RGB	—	14000041
	Cable IP68 for RGB and Tunable White	Outdoor rated UL approved cable. Use to extend installation distance with outdoor rated splicing box (by others).	RGB / Tunable White RGB / Tunable White	4 x 23 AWG, 160 ft 4 x 18 AWG, 160 ft	14000048 14000060
	Field Connector for RGB and Tunable White (10mm)	Use to connect 10mm wide LED tape to another 10mm wide LED tape or four 18-22 gauge lead wires. Clear plastic.	Tape to Tape Tape to Wire	0.8" x 0.5" x 0.4" 1.1" x 0.6" x 0.4"	K0104SS K0104SW
	Mini Female Connector IP67 for RGB and Tunable 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.	RGB Tunable White RGB / Tunable White	4 x 23 Awg, 8 in 4 x 23 Awg, 8 in 4 x 23 Awg, 6.5 ft	15000201 15000241 15000202
	Mini Male Connector IP67 for RGB and Tunable 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.	RGB Tunable White	4 x 23 Awg, 8 in 4 x 23 Awg, 8 in	15000200 15000240
	Mini Extension IP67 for RGB and Tunable 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	4 x 23 Awg, 4 in 4 x 23 Awg 6.5 ft	15000203 15000204
	Mini Female Protection Cap IP67 for RGB and Tunable White	Use to seal unused connectors and maintain IP67 ingress protection.	RGB / Tunable White	—	15000219



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

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

Click for more
information

PRODUCT BROCHURE

INSTALLATION

PROFILES & OPTICS

DRIVERS & CONTROLS

LED LINEAR TECHNOLOGY

VOLTAGE DROP CALCULATOR