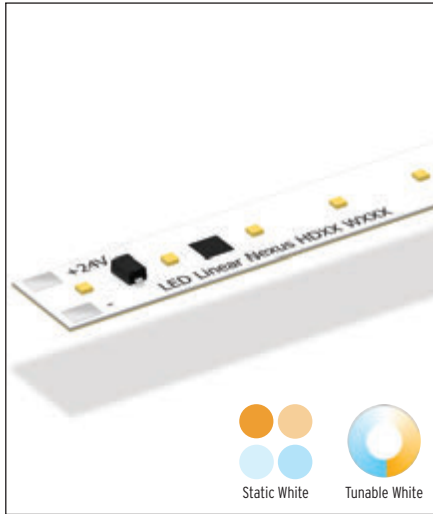


# NEXUS HD Static White/Tunable White



24V Constant Voltage flexible LED strip with white top surface offering optimal reflection and 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 direct and indirect lighting applications. 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 L90/B10 (White), L80/B10 (Tunable White). Embeds high quality Chip Scale Package (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. Wide CCT options from 2200K to 5000K. Premium color rendition with a CRI of 95 (R9 = 75) and TM-30-15 up to R<sub>r</sub> = 95 / R<sub>g</sub> = 100 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. Engineered and produced in Germany.

Project name

Fixture type

Phase

Specifier

Date

**24** TITLE  
Select Models Only

**ETL** US  
Intertek  
ETL Listed

**Integrated Circuit Driver**  
Up to 1490 lm/ft 121 lm/W constant light output

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

**TjAway® Thermal Management**  
Exceptional Thermal Dissipation

**One Bin Only**  
3 MacAdam up to 95 CRI

**L/B Lifetime**  
L90/B10 >60,000 hrs

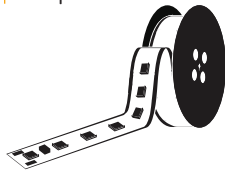
**6 Digit Photometric Code**  
Wxxx/339

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

HD - High LED Density

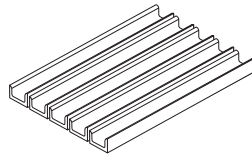
## Component Ordering Process - For Factory Assembled Fixtures, see page 6

Step 1



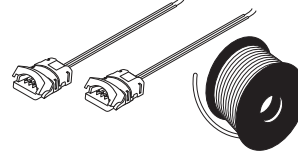
LED Tape (Page 1)

Step 2



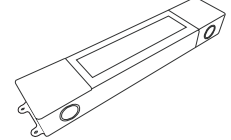
Profiles and Optics (Page 4-5)

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	NEXUS - Static White	HD6	W822 - 85CRI, 2200K
		HD10	W927 - 95CRI, 2700K
		HD15	W930 - 95CRI, 3000K
		HD25	W935 - 95CRI, 3500K
		HD40	W940 - 95CRI, 4000K
			W850 - 85CRI, 5000K
		IQ White NEXUS - Tunable White	HD12
HD24	-		
HD42	-		

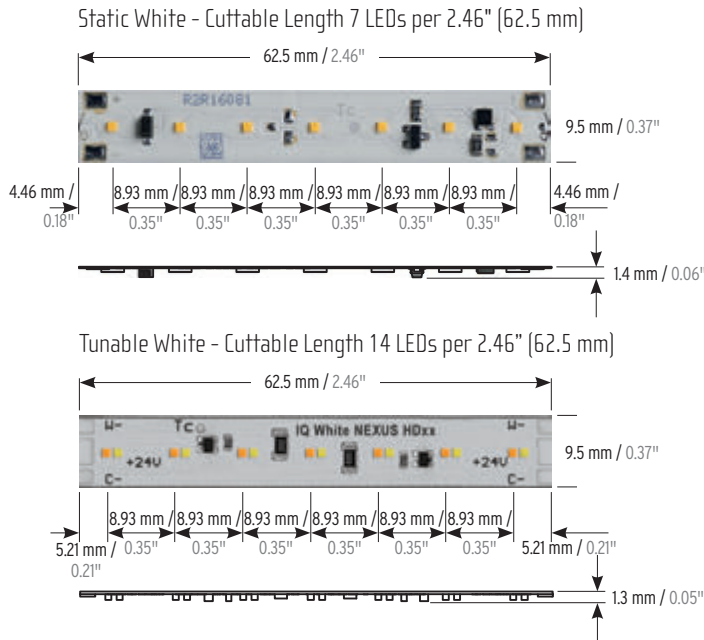
\* Lumen Values represent 5000K for Static White and Tunable White

	CCT	Static White					Tunable White		
		HD6 (1.8 W/ft) <sup>a</sup> Lumen/ft	HD10 (2.9 W/ft) <sup>a</sup> Lumen/ft	HD15 (4.7 W/ft) <sup>a</sup> Lumen/ft	HD25 <sup>b</sup> (7.6 W/ft) <sup>a</sup> Lumen/ft	HD40 <sup>b</sup> (12.2 W/ft) <sup>a</sup> Lumen/ft	HD12 (3.9 W/ft) <sup>a</sup> W/ft <sup>a</sup>	HD24 <sup>b</sup> (7.3 W/ft) <sup>a</sup> Lumen/ft	HD42 <sup>b</sup> (12.8 W/ft) <sup>a</sup> W/ft <sup>a</sup>
Static White	W822, 2,200 K	140	240	390	650	1,060	-	-	-
	W927, 2,700 K	150	260	410	670	1,090	-	-	-
	W930, 3,000 K	160	260	420	690	1,120	-	-	-
	W935, 3,500 K	160	270	430	710	1,150	-	-	-
	W940, 4,000 K	160	270	440	710	1,160	-	-	-
W850, 5,000 K	190	340	550	910	1,490	-	-	-	
Tunable White	W822, 2,200 K	-	-	-	-	-	140	290	540
	W850, 5,000 K	-	-	-	-	-	190	410	770
	Total, 2,200 K - 5,000 K	-	-	-	-	-	330	700	1,310

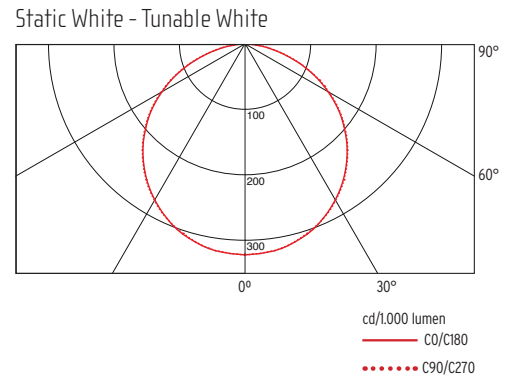
<sup>a</sup> The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

<sup>b</sup> Tapes that consume more than 4.7 W/ft must be coupled with a heatsink.

## Mechanical Details



## Light Distribution



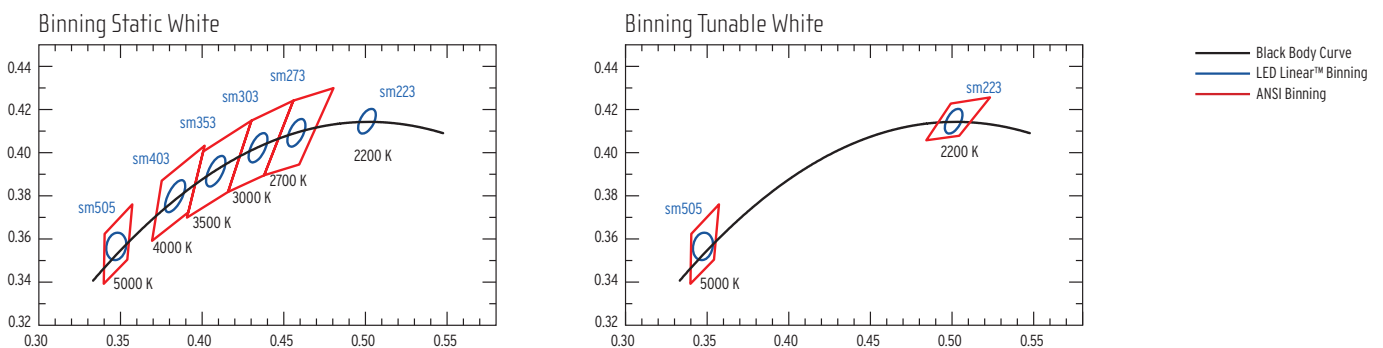
## Technical Details

	Static White	Tunable White
Step length	7 LEDs per 2.46" / 62.5 mm	14 LEDs per 2.46" / 62.5 mm
Voltage	24 Volt (23 V <sub>min</sub> , 25 V <sub>max</sub> )	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> = 176°F / 80°C	T <sub>Cmin</sub> = -13°F / -25°C, T <sub>Cmax</sub> = 176°F / 80°C
Storage temperature	T <sub>Smin</sub> = -22°F / -30°C, T <sub>Smax</sub> = 185°F / 85°C	T <sub>Smin</sub> = -22°F / -30°C, T <sub>Smax</sub> = 185°F / 85°C
Ambient temperature	T <sub>a</sub> min = -13°F / -25°C, T <sub>a</sub> max = specific, see table below	T <sub>a</sub> min = -13°F / -25°C, T <sub>a</sub> max = specific, see table below

<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					Tunable White		
	HD6	HD10	HD15	HD25	HD40	HD12	HD24	HD42
Power (W/ft) <sup>B</sup>	1.8	2.9	4.7	7.6	12.2	3.7	7.3	12.8
Efficacy (lm / W) <sup>B</sup> @ W850	109	115	118	120	121	94	99	102
CRI / R <sub>9</sub> @ 3000 K	95 / 86	95 / 86	95 / 86	95 / 86	95 / 86	85 / 65	85 / 65	85 / 65
R <sub>i</sub> / R <sub>s</sub> @ 3000 K	92 / 101	92 / 101	92 / 101	92 / 101	92 / 101	84 / 101	84 / 101	84 / 101
Reel length (ft / m)	24.6 / 7.5	16.4 / 5	16.4 / 5	9.8 / 3	6.6 / 2	16.4 / 5	9.8 / 3	6.6 / 2
Watt / Reel (W) <sup>B</sup>	43.5	48	77	75	80	60	72	84
Number LED/Reel	840	560	560	336	224	1120	672	448
Max ambient temperature (T <sub>a</sub> max)	122°F / 50°C	122°F / 50°C	113°F / 45°C	104°F / 40°C	95°F / 35°C	122°F / 50°C	104°F / 40°C	95°F / 35°C

<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%.

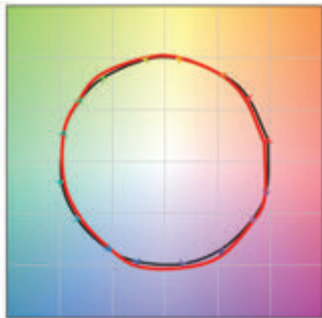


# NEXUS HD Static White/Tunable White

## Colorimetric Details - NEXUS HD

Photometric Code	CCT	R <sub>a</sub> / CRI	R9	TM-30-15 / R <sub>f</sub>	TM-30-15 / R <sub>g</sub>
W930	3000 K	95	86	92	101

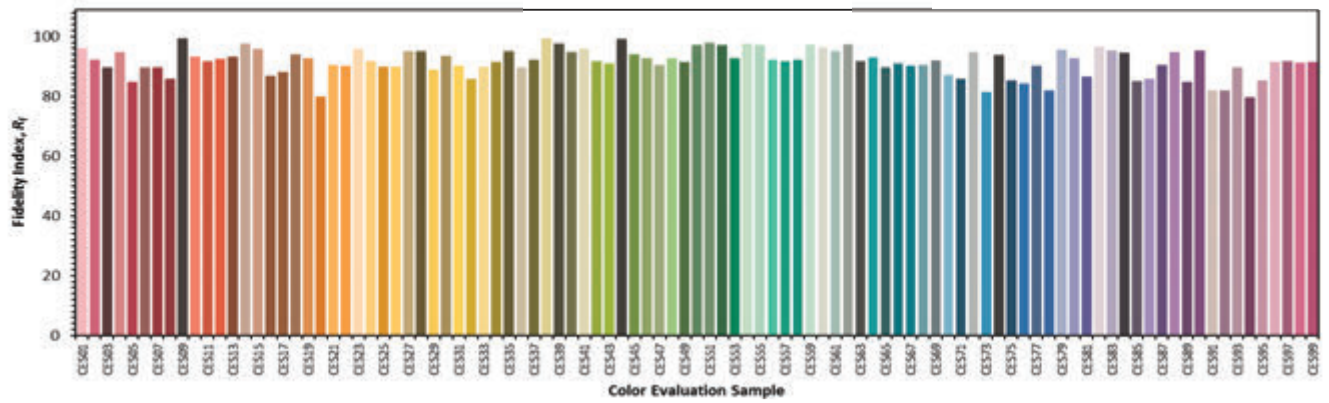
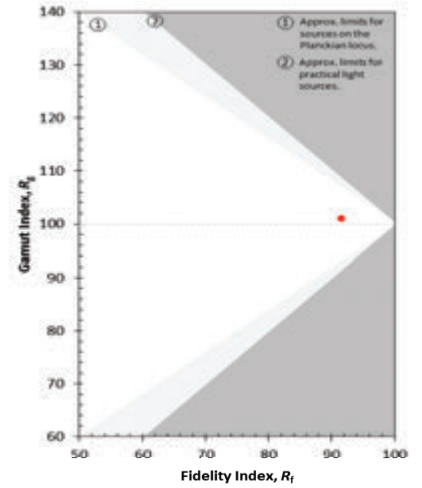
Color  
Vector  
Graphic



Color  
Distortion  
Graphic




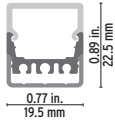
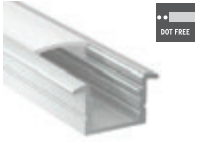
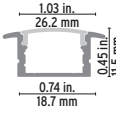
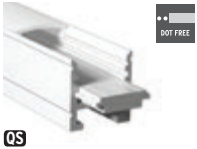
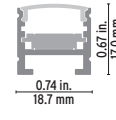
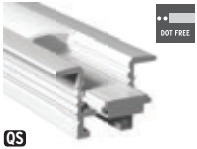
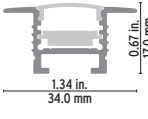
Reference  
Illuminant  
Test Source




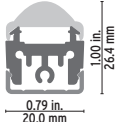
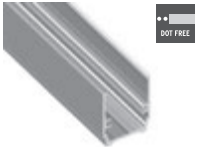
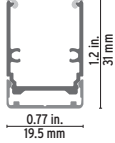

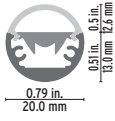
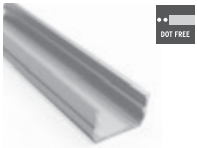
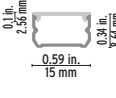
## Profiles and Optics (Optional)

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

### ECO LINES – High Versatility & Best Value.

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


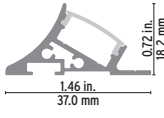

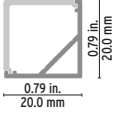

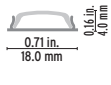

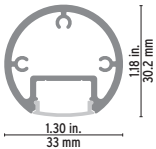
### PERFORMANCE LINES – High Efficacy & Superior Light Quality. Dot-Free.

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

## 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
<b>Contour 1650</b> 		<b>Application:</b> Undercabinet, Surface Mount, Display Lighting, Max. 4.7 W/ft <b>Features:</b> 30° Tilted Design, Black, White and Silver Finish Options <b>Cable Feed:</b> Behind (B)	<a href="#">C 1650 SPEC SHEET</a> <a href="#">C 1650 INSTALLATION</a>
<b>Contour 2000</b> 		<b>Application:</b> Undercabinet, Corner Mount, Display Lighting, Max. 4.7 W/ft <b>Features:</b> 45° Tilted Design, Silver Finish <b>Cable Feed:</b> End (E)	<a href="#">C 2000 SPEC SHEET</a> <a href="#">C 2000 INSTALLATION</a>
<b>Contour 5560</b> 		<b>Application:</b> Surface Mount, Max. 4.7 W/ft <b>Features:</b> Super Shallow Profile, Bendable Design, Installs around Curves <b>Cable Feed:</b> End (E)	<a href="#">C 5560 SPEC SHEET</a> <a href="#">C 5560 INSTALLATION</a>
<b>Contour 7850</b> 		<b>Application:</b> In-Closet Rod, Max. 4.7 W/ft <b>Features:</b> Round Profile, NEC Closet Rated <b>Cable Feed:</b> End (E), Behind (B)	<a href="#">C 7850 SPEC SHEET</a> <a href="#">C 7850 INSTALLATION</a>

## Dim-to-Warm Wiring Diagram



## 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 misconnections	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
<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>
<b>OLUTRON</b> 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>eldoLED</b> Controllers 	<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>
	<b>Dim-to-Warm</b> Control Unit for warm dimming, 5000K down to 2200K	<a href="#">DIM2WARM SPEC SHEET</a>

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LED LINEAR TECHNOLOGY

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