

# Pendant/Surface Mount Round - Assembled Fixture

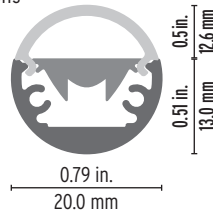
# LED LINEAR™



Round fixture designed for a variety of linear LED lighting needs. The fixture fits where smaller installation heights are required. High light extraction efficacy and superior light quality. Silver or Black finish.

### Features

- Designed to give a uniform light without hot spots.
- Compatible with multiple installation accessories.
- Various linear lens options for different lighting requirements.
- Cable Feed: Behind (B)



Project name \_\_\_\_\_

Fixture type \_\_\_\_\_ Phase \_\_\_\_\_

Specifier \_\_\_\_\_ Date \_\_\_\_\_

IC Driver: Constant light output

TJ Away: Exceptional Thermal Dissipation

Reel-to-Reel: High Quality Solder Free Reels

One Bin Only: 3 MacAdam up to 90 CRI

Dot Free: L80/B10 >60,000 hrs

Wxxx/339: Wxxx/339

IES LM79/LM80 Compliant: IES LM79/LM80 Compliant

## Order Code

Family	LED Tape	CRI	CCT	Finish	Optic	Cable / Connector <sup>2</sup>	Cable Position	Mounting <sup>3,4</sup>	Fixture length (mm)	Ingress
VarioLED 0024	-----	W9	---	---	---	---	B	---	-----	IP20
Pendant/Surface Round	HD10-3.0 w/ft, 300 lm/ft	W9 90CRI	27 2700K	S Silver	RO Round Opal	FM Female & Male (4")	B Behind	PMK Pendant Mounting Kit	Refer to length chart on page 3	IP20
	HD17-5.2 w/ft, 490 lm/ft		30 3000K	B Black	LO Low Opal	MS Male one side only (4")				
	HD27-8.3 w/ft, 760 lm/ft		35 3500K			OB Open Cable both sides (6.5')				
			40 4000K			OS Open Cable one side only (6.5')				
					10L 10° Linear Flat Lens					
					30L 30° Linear Flat Lens			SMC Surface Mounting Clip		
					60L 60° Linear Flat Lens			VMC Vertical Mounting Clip		

<sup>1</sup> Delivered Lumens @3000K with Clear Optic. <sup>2</sup> 2 x 22 AWG wires are supplied. See page 4 for more connectors. <sup>3</sup> See Components spec sheet for details. <sup>4</sup> Order with Pendant Mounting Kit for live electrical feeds.

## LED Tape Specifications

Color vector graphic

Color distortion graphic

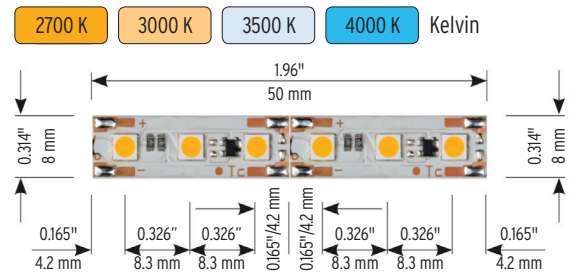
Reference illuminant — Test source @ ????K

R<sub>i</sub> 89

R<sub>g</sub> 103

CRI 90

R9 66



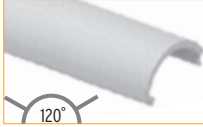
		HD10		HD17		HD27			HD10	HD17	HD27	
		CCT	Lumen/ft <sup>4</sup>	W/ft <sup>4</sup>	Lumen/ft <sup>4</sup>	W/ft <sup>4</sup>	Lumen/ft <sup>4</sup>		W/ft <sup>4</sup>	Power (W/ft) <sup>8</sup>	Efficacy (lm/W) <sup>8</sup>	Max length (ft)
Static White	● W927	2,700 K	300	3.0	480	5.2	740	8.3	3.0	5.2	8.3	
	● W930	3,000 K	300	3.0	490	5.2	760	8.3	108	102	100	
	● W935	3,500 K	310	3.0	510	5.2	790	8.3	27.9	23.0	16.4	
	● W940	4,000 K	320	3.0	520	5.2	810	8.3	CRI / R9 (up to)	90 / 66	90 / 66	90 / 66
									R <sub>i</sub> / R <sub>g</sub>	89 / 103	89 / 103	89 / 103
									Temp. Tc-point (Ta <sub>max</sub> )	158°F/70°C	158°F/70°C	167°F/75°C
									Max ambient temp. (Ta <sub>max</sub> )	122°F/50°C	122°F/50°C	113°F/45°C

<sup>4</sup> Lumen values represent bare LED tape. Refer to page 2 to calculate delivered fixture lumens by using the light efficiency percentages. <sup>8</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%.

## Contour - Technical Details

### ROUND OPAL

55% light transmittance



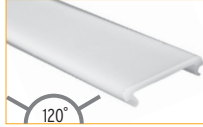
**Dot free**

5% warmer CCT offset

This lens provides a homogenous line of light.

### LOW OPAL

50% light transmittance



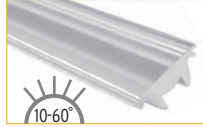
**Dot free**

5% warmer CCT offset

This lens provides a homogenous line of light.

### LINEAR FLAT LENS

80% light transmittance



**Visible Dotting**

2% warmer CCT offset

A converging lens that shapes the beam spread for targeted and focused lighting.

Clear and Semi-Opal are 95% and 80% efficient respectively. They exhibit visible dotting effect.

## Mounting Dimensions

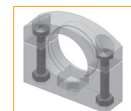
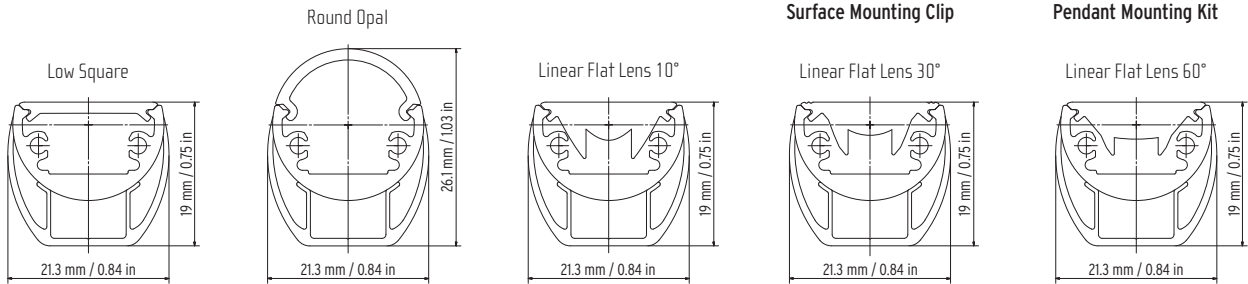
### Fixture with Surface Mounting Clip / Pendant Mounting Kit



**SMC**  
Surface Mounting Clip

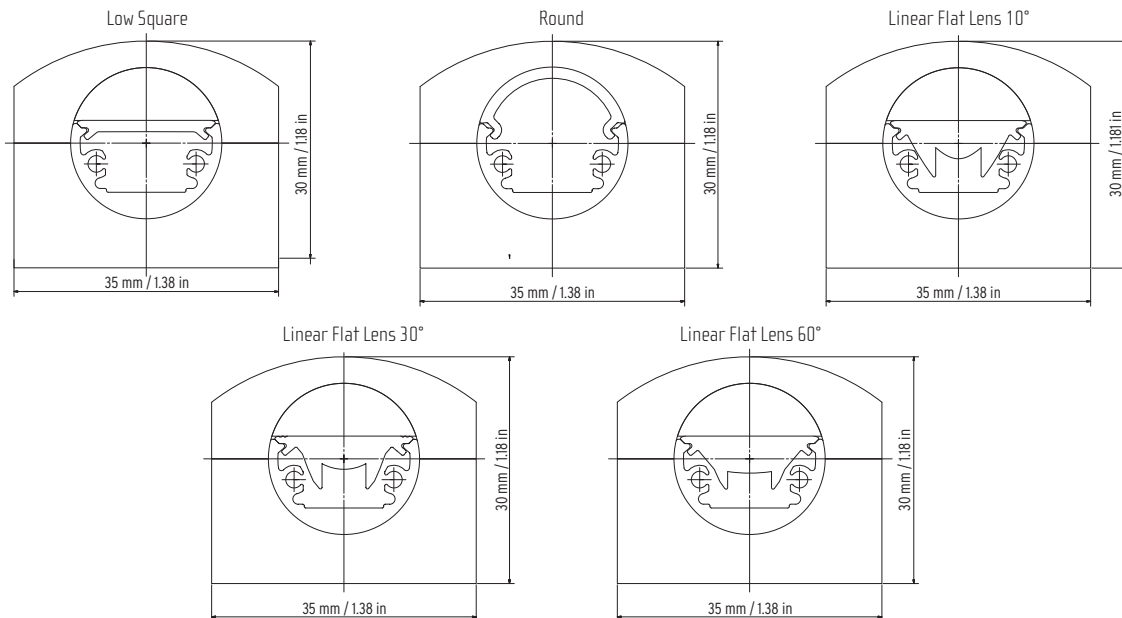


**PMK**  
Pendant Mounting Kit



**VMC**  
Vertical Mounting Clip



### Fixture with Vertical Mounting Clip



## LENGTH CHART - Back Feed (B)

Fixture length		HD10 3.0 Watts/Ft		HD17 5.2 Watts/Ft		HD27 8.3 Watts/Ft	
inches	mm	Watts/fixture	Lumens/fixture @3000K	Watts/fixture	Lumens/fixture @3000K	Watts/fixture	Lumens/fixture @3000K
2.8	70	0.7	69	1.2	113	1.9	174
4.7	120	1.2	118	2.0	193	3.3	299
6.7	170	1.7	167	2.9	273	4.6	424
8.7	220	2.2	216	3.8	354	6.0	548
10.6	270	2.7	266	4.6	434	7.4	673
12.6	320	3.1	315	5.5	514	8.7	798
14.6	370	3.6	364	6.3	595	10.1	922
16.5	420	4.1	413	7.2	675	11.4	1047
18.5	470	4.6	462	8.0	755	12.8	1172
20.5	520	5.1	512	8.9	836	14.2	1296
22.4	570	5.6	561	9.7	916	15.5	1421
24.4	620	6.1	610	10.6	996	16.9	1546
26.4	670	6.6	659	11.4	1077	18.2	1670
28.3	720	7.1	708	12.3	1157	19.6	1795
30.3	770	7.6	758	13.1	1238	21.0	1919
32.3	820	8.1	807	14.0	1318	22.3	2044
34.3	870	8.6	856	14.8	1398	23.7	2169
36.2	920	9.1	905	15.7	1479	25.0	2293
38.2	970	9.5	954	16.5	1559	26.4	2418
40.2	1020	10.0	1004	17.4	1639	27.8	2543
42.1	1070	10.5	1053	18.2	1720	29.1	2667
44.1	1120	11.0	1102	19.1	1800	30.5	2792
46.1	1170	11.5	1151	20.0	1880	31.9	2917
48.0	1220	12.0	1200	20.8	1961	33.2	3041
50.0	1270	12.5	1250	21.7	2041	34.6	3166
52.0	1320	13.0	1299	22.5	2122	35.9	3290
53.9	1370	13.5	1348	23.4	2202	37.3	3415
55.9	1420	14.0	1397	24.2	2282	38.7	3540
57.9	1470	14.5	1446	25.1	2363	40.0	3664
59.8	1520	15.0	1496	25.9	2443	41.4	3789
61.8	1570	15.4	1545	26.8	2523	42.7	3914
63.8	1620	15.9	1594	27.6	2604	44.1	4038
65.7	1670	16.4	1643	28.5	2684	45.5	4163
67.7	1720	16.9	1692	29.3	2764	46.8	4288
69.7	1770	17.4	1742	30.2	2845	48.2	4412
71.7	1820	17.9	1791	31.0	2925	49.5	4537
73.6	1870	18.4	1840	31.9	3005	50.9	4662
75.6	1920	18.9	1889	32.7	3086	52.3	4786
77.6	1970	19.4	1938	33.6	3166	53.6	4911

## Connectors

Item	Description	Model	Dimensions	Order Code
	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	2 x 22 Awg, 6.5 ft	15000147
	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

## VOLTAGE DROP INFORMATION FOR THE FEED-IN LINE (From Driver to Fixture)


	Cable Cross Section							
	Run length		Max. cable length between driver and LED tape					
	feet	m	AWG 22		AWG 15			
			feet	m	feet	m		
HD 10	3.3	1	63.6	19.4	280.8	85.6		
	6.6	2	31.8	9.7	140.4	42.8		
	9.8	3	20.9	6.4	93.5	28.5		
	13.1	4	15.7	4.8	70.2	21.4		
	16.4	5	12.4	3.8	56.1	17.1		
	19.6	6	10.4	3.2	46.5	14.2		
	22.9	7	8.8	2.7	40.0	12.2		
HD 17	3.3	1	37.4	11.4	165.6	50.4		
	6.6	2	18.7	5.7	82.6	25.2		
	9.8	3	12.4	3.8	55.1	16.8		
	13.1	4	9.1	2.8	41.3	12.6		
	16.4	5	7.2	2.2	32.8	10.0		
	19.6	6	6.2	1.9	27.5	8.4		
	22.9	7	5.2	1.6	23.6	7.2		
HD 27	3.3	1	23.2	7.1	104.0	31.7		
	6.6	2	11.4	3.5	51.8	15.8		
	9.8	3	7.5	2.3	34.4	10.5		
	13.1	4	5.5	1.7	25.9	7.9		
	16.4	5	4.5	1.4	20.6	6.3		

Calculation refers to the cable configuration on-site. Calculation based on a max. voltage drop of 0.85 V.

## Compatible 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>
 <b>MEAN WELL</b> 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>LUTRON</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>

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VOLTAGE DROP CALCULATOR

INSTALLATION

LED LINEAR TECHNOLOGY