**VALENT® High Density LED Tape Light**

Versatile, high density tape light for most applications. Full diffusion and dotless light when paired with channels.

### FEATURES
- Dense LED placement for uninterrupted linear light
- 100/200/300/500 lumen outputs
- 1.32 inch cuttable increments
- Precision color rendering with 90+ CRI
- Channel (extrusion) not required for heat sink
- 7 Year limited warranty

### ORDERING CODES

#### Order spools, and components for field assembly

#### OPTIONAL ORDERING CODES

Add Assembly Preferences, Finish, Lens, Mounting, Driver, and Delivery

### VALENT® - SPECIFICATION TABLE

<table>
<thead>
<tr>
<th>Models</th>
<th>24V-VL1</th>
<th>24V-VL2</th>
<th>24V-VL3</th>
<th>24V-VL5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Voltage</strong></td>
<td>24VDC</td>
<td>24VDC</td>
<td>24VDC</td>
<td>24VDC</td>
</tr>
<tr>
<td><strong>Wattage</strong></td>
<td>0.9W/ft.</td>
<td>1.72W/ft.</td>
<td>2.55W/ft.</td>
<td>4.28W/ft.</td>
</tr>
<tr>
<td>2000K</td>
<td>92 Lm/ft.</td>
<td>191 Lm/ft.</td>
<td>285 Lm/ft.</td>
<td>-</td>
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<tr>
<td>2200K</td>
<td>96 Lm/ft.</td>
<td>195 Lm/ft.</td>
<td>292 Lm/ft.</td>
<td>-</td>
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<tr>
<td>2400K</td>
<td>103 Lm/ft.</td>
<td>208 Lm/ft.</td>
<td>306 Lm/ft.</td>
<td>-</td>
</tr>
<tr>
<td>2700K</td>
<td>115 Lm/ft.</td>
<td>221 Lm/ft.</td>
<td>325 Lm/ft.</td>
<td>539 Lm/ft.</td>
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<tr>
<td><strong>Lumens</strong></td>
<td>3000K</td>
<td>3000K</td>
<td>3000K</td>
<td>3000K</td>
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<tr>
<td>3500K</td>
<td>110 Lm/ft.</td>
<td>206 Lm/ft.</td>
<td>298 Lm/ft.</td>
<td>506 Lm/ft.</td>
</tr>
<tr>
<td>4000K</td>
<td>108 Lm/ft.</td>
<td>209 Lm/ft.</td>
<td>313 Lm/ft.</td>
<td>512 Lm/ft.</td>
</tr>
<tr>
<td>5000K</td>
<td>103 Lm/ft.</td>
<td>205 Lm/ft.</td>
<td>301 Lm/ft.</td>
<td>505 Lm/ft.</td>
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<tr>
<td>6300K</td>
<td>109 Lm/ft.</td>
<td>208 Lm/ft.</td>
<td>305 Lm/ft.</td>
<td>512 Lm/ft.</td>
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<tr>
<td><strong>Cut Points</strong></td>
<td>1.32 in.</td>
<td>1.32 in.</td>
<td>1.32 in.</td>
<td>1.32 in.</td>
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<tr>
<td><strong>Max Run (ft.)</strong></td>
<td>75 ft.</td>
<td>55 ft.</td>
<td>42 ft.</td>
<td>29 ft.</td>
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<tr>
<td><strong>CRI</strong></td>
<td>90+</td>
<td>90+</td>
<td>90+</td>
<td>90+</td>
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<tr>
<td><strong>Dimensions</strong></td>
<td>0.47 x 0.1 in. (W x H)</td>
<td>0.47 x 0.1 in. (W x H)</td>
<td>0.47 x 0.1 in. (W x H)</td>
<td>0.47 x 0.1 in. (W x H)</td>
</tr>
<tr>
<td><strong>Environment</strong></td>
<td>Indoor / Damp Location (IP20)</td>
<td>Indoor / Damp Location (IP20)</td>
<td>Indoor / Damp Location (IP20)</td>
<td>Indoor / Damp Location (IP20)</td>
</tr>
<tr>
<td><strong>Ambient Temperature</strong></td>
<td>-4 ~ 122°F (-20 ~ 50°C)</td>
<td>-4 ~ 122°F (-20 ~ 50°C)</td>
<td>-4 ~ 122°F (-20 ~ 50°C)</td>
<td>-4 ~ 122°F (-20 ~ 50°C)</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-4 ~ 176°F (-20 ~ 80°C)</td>
<td>-4 ~ 176°F (-20 ~ 80°C)</td>
<td>-4 ~ 176°F (-20 ~ 80°C)</td>
<td>-4 ~ 176°F (-20 ~ 80°C)</td>
</tr>
<tr>
<td><strong>LED Chips</strong></td>
<td>72/ft.</td>
<td>72/ft.</td>
<td>72/ft.</td>
<td>72/ft.</td>
</tr>
<tr>
<td><strong>Certification</strong></td>
<td>UL Listed 2108</td>
<td>UL Listed 2108</td>
<td>UL Listed 2108</td>
<td>UL Listed 2108</td>
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<tr>
<td><strong>Warranty</strong></td>
<td>7 Year</td>
<td>7 Year</td>
<td>7 Year</td>
<td>7 Year</td>
</tr>
</tbody>
</table>
**VALENT® High Density LED Tape Light**

**Speciication Sheet**

---

**Date**

**Project Notes**

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## CHANNEL / LENS / MOUNTING COMPATIBILITY

<table>
<thead>
<tr>
<th>Channel</th>
<th>Compatible Lenses</th>
<th>Available Finishes</th>
<th>Mounting Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 (A1)</td>
<td>FRT</td>
<td>AL / WH / BL</td>
<td>UC</td>
</tr>
<tr>
<td>A2 (A2)</td>
<td>CLT / FRT / AFS</td>
<td>AL / WH / BL</td>
<td>UC</td>
</tr>
<tr>
<td>A3 (A3)</td>
<td>CLT / FRT / AFS</td>
<td>AL / WH / BL</td>
<td>UC</td>
</tr>
<tr>
<td>S1 (S1)</td>
<td><em>blank</em></td>
<td>AL</td>
<td>UC</td>
</tr>
<tr>
<td>S2 (S2)</td>
<td><em>blank</em></td>
<td>AL</td>
<td>UC</td>
</tr>
<tr>
<td>S45 (S45)</td>
<td><em>blank</em></td>
<td>AL</td>
<td>UC</td>
</tr>
</tbody>
</table>

### LEGEND

<table>
<thead>
<tr>
<th>Lens</th>
<th>Finish</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>blank</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classic Frosted Lens</td>
<td>AL</td>
<td>3M</td>
</tr>
<tr>
<td>Architectural Frosted Satin Lens</td>
<td>WH</td>
<td>HNG</td>
</tr>
<tr>
<td>Black Lens</td>
<td>BL</td>
<td>MAG</td>
</tr>
<tr>
<td>Architectural Clear Lens</td>
<td>MC</td>
<td></td>
</tr>
<tr>
<td>Architectural Frosted Lens</td>
<td>OPT</td>
<td></td>
</tr>
<tr>
<td>Opal Lens</td>
<td>UC</td>
<td></td>
</tr>
<tr>
<td>Premium Diffusion Lens</td>
<td>PD</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lens</th>
<th>Finish</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFS</td>
<td></td>
<td>3M</td>
</tr>
<tr>
<td>BL</td>
<td></td>
<td>MAG</td>
</tr>
<tr>
<td>CLT</td>
<td></td>
<td>HC</td>
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<tr>
<td>FRT</td>
<td></td>
<td>RC</td>
</tr>
<tr>
<td>OPT</td>
<td></td>
<td>VC</td>
</tr>
<tr>
<td>PD</td>
<td></td>
<td>UC</td>
</tr>
</tbody>
</table>

**Note:**

- *blank* indicates compatibility that is not specified.
- **FRT** indicates Classic Frosted Lens.
- **CLT** indicates Architectural Clear Lens.
- **FRT** indicates Architectural Frosted Lens.
- **OPT** indicates Opal Lens.
- **PD** indicates Premium Diffusion Lens.

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**Specification Sheet** | **VALENT® High Density LED Tape Light** | **SS3142024** | 4.6
2 of 11
VALENT® 24V
High Density LED Tape Light
Versatile, high density tape light for most applications. Full diffusion and dotless light when paired with channels.

RECOMMENDED CHANNELS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DIAGRAM</th>
<th>INCLUDED ACCESSORIES</th>
<th>CONNECTION OPTIONS</th>
<th>IN CHANNEL DIFFUSION</th>
<th>TECHNICAL RATINGS</th>
<th>MOUNTING OPTIONS WITH DIMENSIONS</th>
</tr>
</thead>
</table>
| A1 Channel  | ![A1 Channel Diagram](A1.png) | Height: 0.20 in. Width: 0.37 in. Interior Depth: 0.45 in. Interior Width: 0.79 in. | 48" Aluminum, Black & White Channels.  
  • 48" channel & lens  
  • 2x surface mounting clips  
  • End caps: 1x open, 1x closed.  
  50" Aluminum, Black, & White Channels.  
  • 50" channel & lens  
  • 2x surface mounting clips  
  • End caps: 2x open, 2x closed. | Architectural Frosted Lens  
  V11, V12, V13, V15 Dotless | Beam Angle: 10º  
  Architectural Frosted Lens  
  CCT Shift: 35K  
  IP Rating Shift: IP40 | ![A1 Channel Mounting](A1-Mounting.png) |
| A2 Channel  | ![A2 Channel Diagram](A2.png) | Height: 0.25 in. Width: 0.33 in. Interior Depth: 0.33 in. Interior Width: 0.69 in. | 48" Aluminum, Black & White Channels.  
  • 48" channel & lens  
  • 2x surface mounting clips  
  • End caps: 1x open, 1x closed.  
  50" Aluminum, Black, & White Channels.  
  • 50" channel & lens  
  • 2x surface mounting clips  
  • End caps: 2x open, 2x closed. | Architectural Frosted Satin Lens  
  V11, V12, V13, V15 Dotless | Beam Angle: 10º  
  Architectural Clear Lens  
  Light Loss: 10%  
  CCT Shift: 20K  
  Architectural Frosted Lens  
  Light Loss: 20%  
  CCT Shift: 35K  
  Architectural Frosted Satin Lens  
  Light Loss: 30%  
  CCT Shift: 80K  
  IP Rating Shift: IP40 | ![A2 Channel Mounting](A2-Mounting.png) |
| A3 Channel  | ![A3 Channel Diagram](A3.png) | Height: 0.28 in. Width: 0.33 in. Interior Depth: 0.32 in. Interior Width: 0.49 in. | 48" Aluminum, Black & White Channels.  
  • 48" channel & lens  
  • 2x surface mounting clips  
  • End caps: 1x open, 1x closed.  
  50" Aluminum, Black, & White Channels.  
  • 50" channel & lens  
  • 2x surface mounting clips  
  • End caps: 2x open, 2x closed. | Architectural Frosted Satin Lens  
  V11, V12, V13, V15 Dotless | Beam Angle: 10º  
  Architectural Clear Lens  
  Light Loss: 10%  
  CCT Shift: 20K  
  Architectural Frosted Lens  
  Light Loss: 20%  
  CCT Shift: 35K  
  Architectural Frosted Satin Lens  
  Light Loss: 30%  
  CCT Shift: 80K  
  IP Rating Shift: IP40 | ![A3 Channel Mounting](A3-Mounting.png) |
| S1 Channel  | ![S1 Channel Diagram](S1.png) | Height: 0.21 in. Width: 0.37 in. Interior Depth: 0.32 in. Interior Width: 0.58 in. | 48" channel & frosted cover  
  • 2x surface mounting clips  
  • End caps: 1x open, 1x closed. | Architectural Frosted Lens  
  V11, V12, V13, V15 Dotless | Beam Angle: 10º  
  Classic Frosted Lens  
  Light Loss: 20%  
  CCT Shift: 40K  
  IP Rating Shift: IP40 | ![S1 Channel Mounting](S1-Mounting.png) |
## RECOMMENDED CHANNELS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DIAGRAM</th>
<th>INCLUDED ACCESSORIES</th>
<th>CONNECTION OPTIONS</th>
<th>IN CHANNEL DIFFUSION</th>
<th>TECHNICAL RATINGS</th>
<th>MOUNTING OPTIONS WITH DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>S2 Channel</strong>&lt;br&gt;Dr-Chi-S2</td>
<td><img src="image1" alt="" /></td>
<td>48 in. Channel &amp; Frosted Lens, 1 open end cap, 1 closed end cap, 2 mounting clips, 2 mounting screws.</td>
<td>12mm Terminal Block Compatible&lt;br&gt;Classic Frosted Lens&lt;br&gt;V1, V2, V3, V5: Dotless</td>
<td><img src="image2" alt="Image" /></td>
<td>+ Beam Angle: 100°&lt;br&gt;Classic Frosted Lens&lt;br&gt;+ CCT Shift: -40K&lt;br&gt;IP Rating Shift: IP40</td>
<td>U-Clip: 0.75 x 0.54 in. (W x H)</td>
</tr>
<tr>
<td><strong>S45 Channel</strong>&lt;br&gt;Dr-Chi-S45</td>
<td><img src="image3" alt="" /></td>
<td>48 in. Channel &amp; Frosted Lens, 1 open end cap, 1 closed end cap, 2 mounting clips, 2 mounting screws.</td>
<td>12mm Terminal Block Compatible&lt;br&gt;Classic Frosted Lens&lt;br&gt;V1, V2, V3, V5: Dotless</td>
<td><img src="image4" alt="Image" /></td>
<td>+ Beam Angle: 100°&lt;br&gt;Classic Frosted Lens&lt;br&gt;+ CCT Shift: -40K&lt;br&gt;IP Rating Shift: IP40</td>
<td>U-Clip: 0.79 x 0.79 in. (W x H)</td>
</tr>
<tr>
<td><strong>Slim Channel</strong>&lt;br&gt;Dr-Oph-SL</td>
<td><img src="image5" alt="" /></td>
<td>48&quot; Aluminum, Black, &amp; White Channels.&lt;br&gt;4x Channel &amp; Stem Lens&lt;br&gt;4x Surface Mounting Clips&lt;br&gt;End Caps: 2x Open, 2x Closed&lt;br&gt;92° Aluminum, Black, &amp; White Channels.&lt;br&gt;4x Channel &amp; Stem Lens&lt;br&gt;4x Surface Mounting Clips&lt;br&gt;End Caps: 2x Open, 2x Closed&lt;br&gt;Note: Dimensions for Slim Channel may vary.</td>
<td>12mm Terminal Block Compatible&lt;br&gt;Architectural Clear Lens&lt;br&gt;V1, V2, V3, V5: Dotless</td>
<td><img src="image6" alt="Image" /></td>
<td>+ Beam Angle: 100°&lt;br&gt;Architectural Clear Lens&lt;br&gt;+ CCT Shift: -20K&lt;br&gt;Architectural Frosted Lens&lt;br&gt;+ CCT Shift: -20K</td>
<td>U-Clip: 0.6 x 0.7 in. (W x H)</td>
</tr>
<tr>
<td><strong>Canal Channel</strong>&lt;br&gt;Dr-Oph-CAN</td>
<td><img src="image7" alt="" /></td>
<td>48&quot; Aluminum, Black, &amp; White Channels.&lt;br&gt;4x Channel &amp; Stem Lens&lt;br&gt;4x Surface Mounting Clips&lt;br&gt;End Caps: 1x Open, 1x Closed&lt;br&gt;Note: Dimensions for Canal Channel may vary.</td>
<td>12mm Tape Light: Soldered Lead Only&lt;br&gt;Opal Lens&lt;br&gt;V1, V2, V3, V5: Dotless</td>
<td><img src="image8" alt="Image" /></td>
<td>+ Beam Angle: 100°&lt;br&gt;Opal Lens&lt;br&gt;+ CCT Shift: -50K&lt;br&gt;IP Rating Shift: IP40</td>
<td>U-Clip: 0.6 x 0.7 in. (W x H)</td>
</tr>
</tbody>
</table>
### RECOMMENDED CHANNELS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DIAGRAM</th>
<th>INCLUDED ACCESSORIES</th>
<th>CONNECTION OPTIONS</th>
<th>IN CHANNEL</th>
<th>TECHNICAL RATINGS</th>
<th>MOUNTING OPTIONS WITH DIMENSIONS</th>
</tr>
</thead>
</table>
| **16mm Square Channel**  
DI-CPCHB-16MM  
(16)  
48’  
Aluminum  
For Narrow Tape lights or fixtures | Height (H): 0.29 in.  
Width (W): 0.77 in.  
Interior Width (IW): 0.63 in. |  
48 in. channel & Architectural Frosted Lens  
2x surface mounting clips  
End caps: 1x open, 1x closed.  
96 in. channel & Architectural Frosted Lens  
4x surface mounting clips  
End caps: 2x open, 2x closed. |  
12mm Terminal Block  
Compatible | Architectural Frosted Lens  
VL1, VL2, VL3, VL5: Dotless  
Premium Diffusion Lens  
VL1, VL2, VL3, VL5: Dotless  
For diffusion options not listed, refer to Square Channel Specification Sheet. |  
**Beam Angle: 30°**  
Architectural Frosted Lens  
Light Loss: 30%  
CCT Shift: 30K  
Black Lens  
Light Loss: 90%  
CCT Shift: 300K  
**IP Rating Shift: IP40** |  
Mounting Clip: 0.88 x 0.77 in.  
(3 x W)  
Hanging Mount: 1.51 x 0.82 in. (3 x W)  
Chromaticity Surface Walker: 0.81 x 0.82 in. (3 x W)  
Vertical Mount: 0.81 x 0.82 in. (3 x W)  
Bolting Mount: 1.29 x 0.82 in. (3 x W) |
| **20mm Round Channel**  
DI-CPCHB-RC20  
(20)  
48’, 96’  
Aluminum  
For Narrow Tape lights or fixtures | Height (H): 0.18 in.  
Width (W): 0.77 in.  
Interior Width (IW): 0.63 in. |  
48 in. channel & frosted lens  
2x surface mounting clips  
End caps: 1x open, 1x closed.  
96 in. channel & frosted lens  
4x surface mounting clips  
End caps: 2x open, 2x closed. |  
12mm Terminal Block  
Compatible | Classic Frosted Lens  
VL1, VL2, VL3, VL5: Dotless  
Premium Diffusion Lens  
VL1, VL2, VL3, VL5: Dotless  
For diffusion options not listed, refer to Square Channel Specification Sheet. |  
**Beam Angle: 30°**  
Classic Frosted Lens  
Light Loss: 30%  
CCT Shift: 30K  
Black Lens  
Light Loss: 90%  
CCT Shift: 300K  
**IP Rating Shift: IP40** |  
U-Clip: 1.19 x 1.19 in. (3 x W)  
Hanging Mount: 1.51 x 0.82 in. (3 x W)  
Chromaticity Surface Walker: 0.81 x 0.82 in. (3 x W)  
Vertical Mount: 0.81 x 0.82 in. (3 x W)  
Bolting Mount: 1.29 x 0.82 in. (3 x W) |
| **20mm Square Channel**  
DI-CPCHB-SQC20  
(20)  
48’, 96’  
Aluminum, White, Black  
For Narrow Tape lights or fixtures | Height (H): 0.18 in.  
Width (W): 0.77 in.  
Interior Width (IW): 0.63 in. |  
48 in. channel & frosted lens  
2x surface mounting clips  
End caps: 1x open, 1x closed.  
96 in. channel & frosted lens  
4x surface mounting clips  
End caps: 2x open, 2x closed. |  
12mm Terminal Block  
Compatible | Classic Frosted Lens  
VL1, VL2, VL3, VL5: Dotless  
Premium Diffusion Lens  
VL1, VL2, VL3, VL5: Dotless  
For diffusion options not listed, refer to Square Channel Specification Sheet. |  
**Beam Angle: 30°**  
Classic Frosted Lens  
Light Loss: 30%  
CCT Shift: 30K  
Black Lens  
Light Loss: 90%  
CCT Shift: 300K  
**IP Rating Shift: IP40** |  
U-Clip: 1.19 x 1.19 in. (3 x W)  
Hanging Mount: 1.51 x 0.82 in. (3 x W)  
Chromaticity Surface Walker: 0.81 x 0.82 in. (3 x W)  
Vertical Mount: 0.81 x 0.82 in. (3 x W)  
Bolting Mount: 1.29 x 0.82 in. (3 x W) |
| **Square Channel**  
DI-CPCHB-SQ  
(20)  
48’, 96’  
Aluminum, White, Black  
For Narrow Tape lights or fixtures | Height (H): 0.25 in.  
Width (W): 0.82 in.  
Depth (D): 0.27 in.  
Interior Width (IW): 0.67 in. |  
48” Aluminum Channel  
48 in. channel & frosted cover  
Mounting hardware  
End caps: 1x open, 1x closed.  
96” Black & White Channels  
48 in. channel & frosted cover  
Mounting hardware  
End caps: 2x open, 2x closed.  
96” Black & White Channels  
48 in. channel & clear or frosted lenses  
2x 2-way-to-end interconnects. |  
12mm Terminal Block  
Compatible | Architectural Frosted Lens  
VL1, VL2, VL3, VL5: Dotless  
Premium Diffusion Lens  
VL1, VL2, VL3, VL5: Dotless  
For diffusion options not listed, refer to Square Channel Specification Sheet. |  
**Beam Angle: 30°**  
Architectural Clear Lens  
Light Loss: 30%  
CCT Shift: 30K  
Black Lens  
Light Loss: 90%  
CCT Shift: 300K  
**IP Rating Shift: IP40** |  
Hanging Mount: 1.33 x 0.82 in. (3 x W)  
Chromaticity Surface Walker: 0.81 x 0.82 in. (3 x W)  
Vertical Mount: 0.81 x 0.82 in. (3 x W)  
Bolting Mount: 1.29 x 0.82 in. (3 x W)
versatile, high density tape light for most applications. Full diffusion and dotless light when paired with channels.

**RECOMMENDED CHANNELS**

<table>
<thead>
<tr>
<th>MODEL</th>
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<th>MOUNTING OPTIONS WITH DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>45° Channel</strong></td>
<td><img src="45_degree_channel_diagram.png" alt="Diagram" /></td>
<td>48&quot; Aluminum, Black &amp; White Channels, 4x surface mounted clips, 2x end-to-end interconnects</td>
<td>12mm Terminal Block Compatible</td>
<td>Architectural Frosted Lens (VL1, VL2, VL3, VL5) Dotless</td>
<td>Beam Angle: 120°, Architectural Clear Lens</td>
<td>ChromaPath Surface Mount: 1.52 x 0.67 in (4 x W)</td>
</tr>
<tr>
<td><strong>45° Deco Channel</strong></td>
<td><img src="45_degree_deco_channel_diagram.png" alt="Diagram" /></td>
<td>48&quot; channel &amp; frosted cover, Mounting hardware, End cap: 1x open, 1x closed.</td>
<td>12mm Tape Light: Soldered Lead Only</td>
<td>Classic Frosted Lens (VL1, VL2, VL3, VL5) Dotless</td>
<td>Beam Angle: 120°, Architectural Frosted Lens</td>
<td>Vertical Mount: 1.52 x 0.67 in (4 x W)</td>
</tr>
<tr>
<td><strong>90° Sideview Channel</strong></td>
<td><img src="90_degree_sideview_channel_diagram.png" alt="Diagram" /></td>
<td>48&quot; channel &amp; frosted cover, Mounting hardware, End cap: 1x open, 1x closed.</td>
<td>12mm Tape Light: Soldered Lead Only</td>
<td>Classic Frosted Lens (VL1, VL2, VL3, VL5) Dotless</td>
<td>Beam Angle: 120°, Architectural Frosted Lens</td>
<td>Rotating Mount: 1.52 x 0.67 in (4 x W)</td>
</tr>
<tr>
<td><strong>Reflector Channel</strong></td>
<td><img src="reflector_channel_diagram.png" alt="Diagram" /></td>
<td>48&quot; channel &amp; frosted cover, Mounting hardware, End cap: 1x open, 1x closed.</td>
<td>12mm Tape Light: Soldered Lead Only</td>
<td>Classic Frosted Lens (VL1, VL2, VL3, VL5) Dotless</td>
<td>Beam Angle: 120°, Architectural Frosted Lens</td>
<td>Hanging Mount: 1.52 x 0.67 in (4 x W)</td>
</tr>
</tbody>
</table>
VALENT® 24V
High Density LED Tape Light

Versatile, high density tape light for most applications. Full diffusion and dotless light when paired with channels.

### RECOMMENDED CHANNELS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DIAGRAM</th>
<th>INCLUDED ACCESSORIES</th>
<th>CONNECTION OPTIONS</th>
<th>IN CHANNEL DIFFUSION</th>
<th>TECHNICAL RATINGS</th>
<th>MOUNTING OPTIONS WITH DIMENSIONS</th>
</tr>
</thead>
</table>
| 1-inch Mud-In Channel  
DI-CPCHB-MUD1  
(SMD)  
48”, 96”  
Aluminum  
For 14mm Tape lights or smaller | Height: 0.56 in.  
Width: 2.22 in.  
Interior Width: 0.81 in.  
Cut Out Width: 1.86 in.  
48 in. channel & opal lens  
4x surface mounting clips  
End caps: 2x open, 2x closed.  
12mm Terminal Block Compatible  
Opal Lens  
VL1, VL2, VL3, VL5 Dotless |  
Beam Angle: 120º  
Light Loss: 55%  
CCT Shift: -200K  
IP Rating Shift: IP40 |  
Recessed Mount: 0.54 x 2.42 in. (H x W) |
| 2-inch Mud-In Channel  
DI-CPCHB-MUD2  
(SMD)  
48”, 96”  
Aluminum  
For 14mm Tape lights or smaller | Height: 0.8 in.  
Width: 3.86 in.  
Interior Width: 1.84 in.  
Cut Out Width: 1.97 in.  
48 in. channel & opal lens  
4x surface mounting clips  
End caps: 2x open, 2x closed.  
12mm Terminal Block Compatible  
Opal Lens  
VL1, VL2, VL3, VL5 Dotless |  
Beam Angle: 120º  
Light Loss: 55%  
CCT Shift: -200K  
IP Rating Shift: IP40 |  
Recessed Mount: 0.8 x 3.86 in. (H x W) |
| Recessed Channel  
DI-CPCHB-REC  
(REC)  
48”, 96”  
Aluminum  
For 14mm Tape lights or smaller | Height: 0.49 in.  
Width: 1.03 in.  
Interior Depth: 0.62 in.  
Interior Width: 0.39 in.  
Cut Out Width: 0.74 in.  
Recessed Wing: 0.05 in.  
48 in. channel & frosted lens  
4x surface mounting clips  
End caps: 2x open, 2x closed.  
12mm Terminal Block Compatible  
Classic Frosted Lens  
VL1, VL2, VL3, VL5 Dotless |  
Beam Angle: 120º  
Classic Frosted Lens  
Light Loss: 20%  
CCT Shift: -40K  
IP Rating Shift: IP40 |  
3M Adhesive: 0.59 x 1.00 in. (H x W)  
Recessed Mount: 0.40 x 1.03 in. (H x W) |
# RECOMMENDED 24V DRIVERS

<table>
<thead>
<tr>
<th>SKU</th>
<th>INPUT VOLTAGE / FREQUENCY</th>
<th>OUTPUT VOLTAGE</th>
<th>MAXIMUM LOAD</th>
<th>MINIMUM LOAD</th>
<th>CLASS 2</th>
<th>DIMMABLE</th>
<th>LENGTH</th>
<th>WIDTH</th>
<th>HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-ODK-24V30W-J</td>
<td>120-277V</td>
<td>24V</td>
<td>30W</td>
<td>No minimum load</td>
<td>Yes</td>
<td>Yes</td>
<td>6.5 in.</td>
<td>3.7 in.</td>
<td>1.57 in.</td>
</tr>
<tr>
<td>DI-ODK-24V60W-J</td>
<td>120-277V</td>
<td>24V</td>
<td>60W</td>
<td>No minimum load</td>
<td>Yes</td>
<td>Yes</td>
<td>7.4 in.</td>
<td>3.7 in.</td>
<td>1.57 in.</td>
</tr>
<tr>
<td>DI-ODK-24V96W-J</td>
<td>120-277V</td>
<td>24V</td>
<td>96W</td>
<td>No minimum load</td>
<td>Yes</td>
<td>Yes</td>
<td>8.66 in.</td>
<td>3.7 in.</td>
<td>1.57 in.</td>
</tr>
<tr>
<td>DI-ODK-24V120W-J</td>
<td>120-277V</td>
<td>24V</td>
<td>120W</td>
<td>No minimum load</td>
<td>No</td>
<td>Yes</td>
<td>8.66 in.</td>
<td>3.7 in.</td>
<td>1.57 in.</td>
</tr>
</tbody>
</table>

**OMNIDRIVE® X Dimmable Driver**
Versatile driver for most high-performance dimming on ELV, TRIAC, and 0-10V systems.

<table>
<thead>
<tr>
<th>SKU</th>
<th>INPUT VOLTAGE / FREQUENCY</th>
<th>OUTPUT VOLTAGE</th>
<th>MAXIMUM LOAD</th>
<th>MINIMUM LOAD</th>
<th>CLASS 2</th>
<th>DIMMABLE</th>
<th>LENGTH</th>
<th>WIDTH</th>
<th>HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-TD-24V-45W-LPS3R</td>
<td>90-135VAC at ~50/60Hz</td>
<td>24V</td>
<td>45W</td>
<td>Load at least 60% labeled load</td>
<td>Yes</td>
<td>Yes</td>
<td>10.79 in.</td>
<td>7.34 in.</td>
<td>2.36 in.</td>
</tr>
<tr>
<td>DI-TD-24V-60W-LPS3R</td>
<td>90-135VAC 50/60Hz</td>
<td>24V</td>
<td>60W</td>
<td>Load at least 60% labeled load</td>
<td>Yes</td>
<td>Yes</td>
<td>Not compatible with PWM controls.</td>
<td>10.79 in.</td>
<td>7.34 in.</td>
</tr>
<tr>
<td>DI-TD-24V-80W-LPS3R</td>
<td>90-135VAC 50/60Hz</td>
<td>24V</td>
<td>80W</td>
<td>Load at least 60% labeled load</td>
<td>Yes</td>
<td>Yes</td>
<td>Not compatible with PWM controls.</td>
<td>10.79 in.</td>
<td>7.34 in.</td>
</tr>
</tbody>
</table>

**VLM Series Constant Voltage Driver**
Compact driver for on/off, PWM dimming, and color-changing applications.

<table>
<thead>
<tr>
<th>SKU</th>
<th>INPUT VOLTAGE / FREQUENCY</th>
<th>OUTPUT VOLTAGE</th>
<th>MAXIMUM LOAD</th>
<th>MINIMUM LOAD</th>
<th>CLASS 2</th>
<th>DIMMABLE</th>
<th>LENGTH</th>
<th>WIDTH</th>
<th>HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>VLM60W-24-LPS3R</td>
<td>120 / 277VAC 47-63Hz</td>
<td>24V</td>
<td>60W</td>
<td>No Minimum Load</td>
<td>Yes</td>
<td>PWM</td>
<td>10.79 in.</td>
<td>7.34 in.</td>
<td>2.36 in.</td>
</tr>
<tr>
<td>VLM60W-24-LPM</td>
<td>120 / 277VAC 47-63Hz</td>
<td>24V</td>
<td>60W</td>
<td>No Minimum Load</td>
<td>Yes</td>
<td>PWM</td>
<td>8.19 in.</td>
<td>2.94 in.</td>
<td>1.31 in.</td>
</tr>
</tbody>
</table>

**PoE (Power over Ethernet)**
Constant voltage platform, ready for Power over Ethernet (inquire)

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**RECOMMENDED CONTROLLERS**

<table>
<thead>
<tr>
<th>SKU</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nicolaudie DMX LED Controllers</td>
<td>Store up to 500 scenes across 10 separate zones with a full-color display.</td>
</tr>
<tr>
<td>DI-DMX-DE3</td>
<td>Nicolaudie STICK-DE3 DMX LED Controller</td>
</tr>
<tr>
<td>DI-DMX-ESA</td>
<td>Nicolaudie Easy Stand Alone DMX LED Color Controller - 5k Memory</td>
</tr>
<tr>
<td>DI-DMX-GA2</td>
<td>Nicolaudie STICK-GA2 DMX LED Controller</td>
</tr>
<tr>
<td>DI-DMX-KE2</td>
<td>Nicolaudie STICK 1 Wall Mount DMX LED Controller - KE2</td>
</tr>
<tr>
<td>CASAMBI® Controllers</td>
<td>The CASAMBI controllers will remotely control your lighting through the app - downloadable for iOS &amp; Android.</td>
</tr>
<tr>
<td>CBU-PWM4</td>
<td>CASAMBI PWM4 Single Color Dimming Controller</td>
</tr>
<tr>
<td>CBU-A2D</td>
<td>CASAMBI A2D 2 Channel 0-10V(DALI) Controller</td>
</tr>
</tbody>
</table>
VALENT® 24V
High Density LED Tape Light
Versatile, high density tape light for most applications. Full diffusion and dotless light when paired with channels.

MECHANICAL DIAGRAMS

24V-VL1
24V-VL2
24V-VL3
24V-VL5

CONNECTIONS

36 in. Bare Lead 20 AWG UL 2466 Wire with Strain Relief
VALENT® 24V High Density LED Tape Light

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ACCESSORIES

DI-TB12-CONN-TTW
Tape Light Terminal Block Connector, Screw Down, 12mm, Tape-To-Wire - Pack of 5

DI-TB12-CONN-TTT
Tape Light Terminal Block Connector, Screw Down, 12mm, Tape-To-Tape - Pack of 1

DI-TB12-90-TTT
Tape Light 90 Degree Corner Connector With Attached 12mm Tape-to-Tape Terminal Blocks - Pack of 5

DI-TB12-60SPL-TTW
Tape Light Terminal Block, 12mm, Lead Wire Attached (Tape to Wire), 60 in. 20 AWG Splice Wire, White - Pack of 1

DI-TB12-6JPR-TTT
Tape Light Terminal Block, 12mm, Jumper Cable (Tape to Tape), 6 in. 20 AWG Wire Lead, White - Pack of 1

DI-TB12-60JPR-TTT
Tape Light Terminal Block, 12mm, Jumper Cable (Tape to Tape), 60 in. 20 AWG Wire Lead, White - Pack of 1

DI-0708
DC Extension Cable - White, 39 in.

DI-0708B
1 Meter DC Extension Cable - Black

DELIVERY OPTIONS

- **Field Assembly**
  Fastest order fulfillment. Field connectors and accessories not included.

- **Factory + Field (Hybrid)**
  Onsite modifications with factory connection. Additional accessories not included.

- **Factory Assembly**
  Fastest installation. Factory made-to-order fixtures.

- Lumen value measured in accordance to IES LM-80-08. LED chips have a luminous flux range with a tolerance of +/- 5%.
- Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length. Max run may exceed Class 2 limit. Actual wattage may differ from calculated wattage due to voltage drop across run.
- Do not install product in an environment outside the listed ambient temperature. Exceeding the maximum ambient temperature may damage LED chips, reduce the total lamp life, lumen output, and/or adversely impact color consistency.
- Actual efficacy value is dependent to specified LED driver (power supply). An estimated efficacy value can be calculated as follows: Lumen value divided by average power consumption per foot.
- Operating temperature is measured according to the minimum and maximum ambient temperature environment.
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CERTIFICATIONS

Safety

- UL Listed 2108 Low Voltage Lighting System / Low Voltage Luminaires. UL 1698 / CSA 2550.0-08, UL 8750. UL 879 / CAN/UL/C22.2 no. 207-M88. Certified for United States and Canada. File # E489769.
- UL Listed Field Cutable.
- Approved for storage areas of clothes closets per NEC 410.16.A.1,3 and 410.16.C.1,3,5
- CE & EMC Compliant. Verification No. GZEM141200883705V

Environment

- RoHS Compliant. Verification No. CANEC1610091501

Performance

- Can be used to comply with TITLE 24 Part 6 High Efficacy Lighting LED requirements - JAB-2016-2022-E
- LED chip data measured in accordance to IES LM-80-08.
- Photometric & Colorimetry data measured in accordance to IES LM-79-08, in Elemental LED's Innovation Lab.

Safety / Warnings / Disclosures

1. Install in accordance with national and local electrical code regulations.
2. This product is intended to be installed and serviced by a qualified, licensed electrician.
3. Only use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.
4. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
5. Tape light, attached wire leads, and additional extension cables, connectors, etc., are not rated for in-wall installation unless otherwise noted. Tape light and attached wire leads are field-cuttable.
6. Ensure applicable wire is installed between driver, fixture, and any controls in-between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires, and cause fire.
7. Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur.
8. Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient Temperature ratings.
9. Do not install indoor LED tape light products in outdoor / wet location environments. Only wet location tape light models are rated for outdoor / wet locations.
10. Do not modify product beyond instructions or warranty will be void.
11. Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
12. Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
13. We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

WARRANTY

Limited Warranty

- 7 Year Warranty

This warranty does not include the additional accessories referenced in this specification sheet. Complete warranty details for fixtures and additional accessories are available at www.diodeled.com/limited-warranty/ within the Policies section. For warranty related questions please contact product support.

Customer's Acknowledgment

Elemental LED, Inc. stands behind its products when they are used properly and according to our specifications. By purchasing our products, the purchaser agrees and acknowledges that lighting design, configuration and installation is a complex process, wherein seemingly minor factors or changes in layout and infiel adjustments can have a significant impact on an entire system. Choosing the correct components is essential. Elemental LED is able to work with the original purchaser to make an appropriate product selection to the extent of the limited information that the customer can provide, but it is virtually impossible for Elemental LED to design a system that foresees every unknown factor. For this reason, this Warranty does not cover problems caused by improper design, configuration or installation issues. Any statement from a Elemental LED employee or agent regarding a customer's bill of goods and/or purchase order is NOT an acknowledgment that the products purchased are designed and configured correctly. The purchase agrees and acknowledges that it is the customer's responsibility to adhere strictly to all information contained in the Product Specification Sheets.

There is often more than one way to design, configure and layout an LED lighting application properly to achieve the same lighting effect. Elemental LED strongly recommends that licensed professionals be used in the design and installation of lighting systems that include Elemental LED products. The specifications include important information that a designer and installer should carefully review and strictly follow. Qualified designers and certified and/or licensed installers, with access to the final installation environment, customer goals, and Elemental LED product specifications can make the requisite decisions appropriate for a successful finished lighting application.