Dialight® LED Linear
Technical Specification Sheet - UL
Vigilan® LED Linear
Low Profile - 10 year warranty

Certifications & Ratings
- UL 1598/A
- CSA C22.2 No. 250
- IP66/67
- NEMA 4X
- 2000 PSI hose-down rating
- DLC Premium & Standard

Dimensions in inches [mm]

Mechanical Information:
- Fixture weight: 4' - 11 lb (5.0 kg)
  2' - 8 lb (3.6 kg)
- Shipping weight: 4' - 12 lb (5.4 kg)
  2' - 9 lb (4.1 kg)
- Mounting: (4) 3/4" NPT openings
  Optional swivel bracket - LPXW4
  Optional low profile bracket - LPXW4LP

Variable Dimming:
- Variable dimming control: 0-10 VDC
- Dimming range: 10 VDC = 100% light output
  0 VDC= 5% light output

Electrical Specifications:
- Operating voltage: 100-277 VAC, 50/60Hz
  120-250 VDC
- Power consumption: See ordering information
- Operating temp: -40°F to +149°F (-40°C to +65°C)
- EMC: FCC Title 47, Subpart B, Section 15,
  Class A device. RF Immunity; 10V/m,
  80MHz-1GHz
- Surge protection: EN 61000-4-5
  6 kV line-to-line
  6 kV line-to-ground
- Harmonics: IEC 61000-3-2 Class C
  ATHD<20%
- Power factor: > 0.9

Construction:
- Finish: Superior dual coat finish
  - Sealed polyester topcoat
  - Chemical resistant epoxy primer
- Lens: Polycarbonate

Photometric Information:
- CRI: 80
- CCT: 5000K (cool white)
  4000K (neutral white)
- IES files: Available at www.dialight.com

All values typical unless otherwise stated (tolerance +/- 10%)

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www.dialight.com
## Ordering Information

**Vigilant® LED Linear - Low Profile - 10 year warranty**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Length</th>
<th>CRI</th>
<th>Wattage</th>
<th>Fixture Lumens</th>
<th>lm/W</th>
<th>Voltage</th>
<th>Lens</th>
<th>Beam Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>LKU-4M(x)2-9DNN-NGN</td>
<td>4'</td>
<td>80</td>
<td>70</td>
<td>9,600</td>
<td>9,300</td>
<td>137</td>
<td>132</td>
<td>100-277 VAC / 120-250 VDC</td>
</tr>
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<td>LKU-5M(x)2-9DNN-NGN</td>
<td>4'</td>
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CCT placeholders - C=5000K (cool white), N=4000K (neutral white)
For additional ordering options, please consult factory.

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[www.dialight.com](http://www.dialight.com)
Vigilant® LED Linear
Top Conduit - 10 year warranty

Mechanical Information:
- **Fixture weight:**
  - 4’ - 11 lb (5.0 kg)
  - 2’ - 8 lb (3.6 kg)
- **Shipping weight:**
  - 4’ - 12 lb (5.4 kg)
  - 2’ - 9 lb (4.1 kg)
- **Mounting:**
  - (4) 3/4” NPT openings
  - Optional swivel bracket - LTXW4
  - Optional low profile bracket - LTXW4LP

Variable Dimming:
- **Variable dimming control:** 0-10 VDC
- **Dimming range:**
  - 10 VDC = 100% light output
  - 0 VDC = 5% light output

Electrical Specifications:
- **Operating voltage:** 100-277 VAC, 50/60Hz
  - 120-250 VDC
- **Power consumption:** See ordering information
- **Operating temp:** -40°F to +149°F (-40°C to +65°C)
- **EMC:** FCC Title 47, Subpart B, Section 15, Class A device. RF Immunity; 10V/m, 80MHz-1GHz
- **Surge protection:** EN 61000-4-5
  - 6 kV line-to-line
  - 6 kV line-to-ground
- **Harmonics:** IEC 61000-3-2 Class C
  - ATHD<20%
- **Power factor:** > 0.9

Construction:
- **Finish:** Superior dual coat finish
  - Sealed polyester topcoat
  - Chemical resistant epoxy primer
- **Lens:** Polycarbonate

Photometric Information:
- **CRI:** 80
- **CCT:**
  - 5000K (cool white)
  - 4000K (neutral white)
- **IES files:** Available at www.dialight.com

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**Certifications & Ratings**
- UL 1598/A
- CSA C22.2 No. 250
- IP65/67
- NEMA 4X
- 2000 PSI hose-down rating
- DLC Premium & Standard

**Dimensions in inches [mm]**

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SafeSite® LED Linear - UL 844
Low Profile - Class I, Div. 2 / Class II - 10 year warranty

Certifications & Ratings
- UL 1598/A
- UL 844
- CSA C22.2 No. 137
- CSA C22.2 No. 250
- IP66 / 67
- Class I, Div. 2 Groups A, B, C & D
- Class III
- NEMA 4X
- 2000 PSI hose-down rating
- DLC Premium & Standard

Temperatures Ratings
<table>
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<tr>
<th>Temperature Range T4A</th>
<th>Temperature Range T5</th>
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<tr>
<td>Ambient Temperature Code</td>
<td>Ambient Temperature Code</td>
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<tr>
<td>-40°F to +149°F (-40°C to +65°C)</td>
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</tr>
</tbody>
</table>

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- Fixture weight: 4’ - 11 lb (5.0 kg)
  2’ - 8 lb (3.6 kg)
- Shipping weight: 4’ - 12 lb (5.4 kg)
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- Mounting: (4) 3/4" NPT openings
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Variable Dimming:
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Electrical Specifications:
- Operating voltage: 100-277 VAC, 50/60Hz
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- Power consumption: See ordering information
- Operating temp: -40°F to +149°F (-40°C to +65°C)
- EMC: FCC Title 47, Subpart B, Section 15, Class A device. RF Immunity; 10V/m, 80MHz-1GHz
- Surge protection: EN 61000-4-5
  6 kV line-to-line
  6 kV line-to-ground
- Harmonics: IEC 61000-3-2 Class C
  ATHD<20%
- Power factor: > 0.9

Construction:
- Finish: Superior dual coat finish
  - Sealed polyester topcoat
  - Chemical resistant epoxy primer
- Lens: Polycarbonate

Photometric Information:
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- CCT: 5000K (cool white)
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## Ordering Information

**SafeSite® LED Linear - Low Profile - UL 844 - 10 year warranty**

**Classifications:** CID2 A, B, C, D • CIID1 E, F, G • CIID2 F, G • CIII

<table>
<thead>
<tr>
<th>Part Number (x = CCT placeholder)</th>
<th>Length</th>
<th>CRI</th>
<th>Wattage</th>
<th>Fixture Lumens</th>
<th>lm/W 5000K</th>
<th>lm/W 4000K</th>
<th>Voltage</th>
<th>Lens</th>
<th>Beam Distribution</th>
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<tbody>
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<td><strong>Class I, Div. 2 Models</strong></td>
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<tr>
<td>LKD-4M(x)2-9DNN-NGN</td>
<td>4'</td>
<td>80</td>
<td>70</td>
<td>9,600</td>
<td>9,300</td>
<td>137</td>
<td>132</td>
<td>Clear Polycarbonate</td>
<td>Medium</td>
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<td>LKD-5M(x)2-9DNN-NGN</td>
<td>4'</td>
<td>80</td>
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<td>Diffused Polycarbonate</td>
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www.dialight.com
SafeSite® LED Linear - UL 844
Top Conduit - Class I, Div. 2 / Class II - 10 year warranty

Certifications & Ratings
- UL 1598/A¹
- UL 844¹
- CSA C22.2 No. 137¹
- CSA C22.2 No. 250¹
- IP66
- Class I, Div. 2 Groups A, B, C & D
- Class I, Zone 2 Group IIIC

¹ETL listed
²Internally tested

Mechanical Information:
- Fixture weight: 4’ - 11 lb (5.0 kg)
  2’ - 8 lb (3.6 kg)
- Shipping weight: 4’ - 12 lb (5.4 kg)
  2’ - 9 lb (4.1 kg)
- Mounting: (4) 3/4” NPT openings
  Optional swivel bracket - LTXW4
  Optional low profile bracket - LTXW4LP

Variable Dimming:
- Variable dimming control: 0-10 VDC
- Dimming range: 10 VDC = 100% light output
  0 VDC= 5% light output

Electrical Specifications:
- Operating voltage: 100-277 VAC, 50/60Hz
  120-250 VDC
- Power consumption: See ordering information
- Operating temp: -40°F to +149°F (-40°C to +65°C)
- EMC: FCC Title 47, Subpart B, Section 15,
  Class A device. RF Immunity; 10V/m,
  80MHz-1GHz
- Surge protection: EN 61000-4-5
  6 kV line-to-line
  6 kV line-to-ground
- Harmonics: IEC 61000-3-2 Class C
  ATHD<20%
- Power factor: > 0.9

Construction:
- Finish: Superior dual coat finish
  - Sealed polyester topcoat
  - Chemical resistant epoxy primer
- Lens: Polycarbonate

Photometric Information:
- CRI: 80
- CCT: 5000K (cool white)
  4000K (neutral white)
- IES files: Available at www.dialight.com

All values typical unless otherwise stated (tolerance +/- 10%)

Temperature Ratings

<table>
<thead>
<tr>
<th>Ambient Temperature Range T4A</th>
<th>Ambient Temperature Range T5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Code</td>
<td>Temperature Code</td>
</tr>
<tr>
<td>-40°F to +149°F (-40°C to +65°C)</td>
<td>-40°F to +113°F (-40°C to +45°C)</td>
</tr>
</tbody>
</table>

WARNING - INSTALLATION & SECONDARY RETENTION. Use of any Dialight products without proper installation (including secondary retention / netting) and periodic inspections could cause severe injury or death. Dialight recommends that all installations should use secondary retention / netting (appropriate to the installation environment) where applicable. It is the exclusive responsibility of the contractor, installer and/or end-user to: (a) determine the suitability of the product for its intended application; and, (b) ensure that the product is safely installed (with secondary retention / netting where appropriate) and in compliance with all applicable laws and regulations. To the extent permissible under applicable laws, Dialight disclaims all liability for personal injury and/or other damage resulting from any dislodgment or other dislocation of its products.
### Ordering Information

**SafeSite® LED Linear - Top Conduit - UL 844 - 10 year warranty**

Classifications: CID2 A, B, C, D • CIID1 E, F, G • CIID2 F, G • CIII

<table>
<thead>
<tr>
<th>Part Number (x = CCT placeholder)</th>
<th>Length</th>
<th>CRI</th>
<th>Wattage</th>
<th>Fixture Lumens</th>
<th>lm/W</th>
<th>Voltage</th>
<th>Lens</th>
<th>Beam Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHD-4M(2-9DNN-NGN)</td>
<td>4'</td>
<td>80</td>
<td>70</td>
<td>9,600</td>
<td>9,300</td>
<td>137 132</td>
<td>Clear Polycarbonate</td>
<td>Medium</td>
</tr>
<tr>
<td>LHD-5M(2-9DNN-NGN)</td>
<td>4'</td>
<td>80</td>
<td>70</td>
<td>8,800</td>
<td>8,500</td>
<td>125 121</td>
<td>Diffused Polycarbonate</td>
<td>Medium</td>
</tr>
<tr>
<td>LHD-4W(2-9DNN-NGN)</td>
<td>4'</td>
<td>80</td>
<td>70</td>
<td>9,600</td>
<td>9,300</td>
<td>137 132</td>
<td>Clear Polycarbonate</td>
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</tr>
<tr>
<td>LHD-4M(2-7DNN-NGN)</td>
<td>4'</td>
<td>52</td>
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<td>7,250</td>
<td>6,960</td>
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<td>Clear Polycarbonate</td>
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<td>LGD-4M(2-5DNN-NGN)</td>
<td>2'</td>
<td>80</td>
<td>37</td>
<td>4,750</td>
<td>4,500</td>
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<td>4,450</td>
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**Class II, Div. 1 Models**

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<th>Wattage</th>
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All values typical unless otherwise stated (tolerance +/- 10%)

CCT placeholders - C=5000K (cool white), N= 4000K (neutral white)

For additional ordering options, please consult factory.

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[www.dialight.com](http://www.dialight.com)
Beam Distribution

**Medium**

**Wide**

### In Rush Currents

<table>
<thead>
<tr>
<th>Lumen Family</th>
<th>Wattage</th>
<th>In rush current @ input voltage</th>
<th>Time duration of in rush current @ input voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>120 VAC</td>
<td>230 VAC</td>
</tr>
<tr>
<td>9K+</td>
<td>71</td>
<td>.8A</td>
<td>15A</td>
</tr>
<tr>
<td>7K+</td>
<td>52</td>
<td>.8A</td>
<td>15A</td>
</tr>
<tr>
<td>4.5K+</td>
<td>38</td>
<td>.8A</td>
<td>15A</td>
</tr>
<tr>
<td>2.5K+</td>
<td>24</td>
<td>.8A</td>
<td>15A</td>
</tr>
</tbody>
</table>

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# Lumen Maintenance Factor

<table>
<thead>
<tr>
<th>Ambient (°C)</th>
<th>0</th>
<th>15000</th>
<th>30000</th>
<th>45000</th>
<th>60000</th>
<th>75000</th>
<th>90000</th>
<th>100000</th>
<th>150000</th>
</tr>
</thead>
<tbody>
<tr>
<td>25°</td>
<td>100</td>
<td>98</td>
<td>96</td>
<td>95</td>
<td>94</td>
<td>92</td>
<td>91</td>
<td>90</td>
<td>86</td>
</tr>
<tr>
<td>30°</td>
<td>100</td>
<td>97</td>
<td>96</td>
<td>95</td>
<td>93</td>
<td>92</td>
<td>91</td>
<td>90</td>
<td>86</td>
</tr>
<tr>
<td>35°</td>
<td>99</td>
<td>96</td>
<td>95</td>
<td>94</td>
<td>92</td>
<td>91</td>
<td>90</td>
<td>89</td>
<td>85</td>
</tr>
<tr>
<td>40°</td>
<td>98</td>
<td>96</td>
<td>95</td>
<td>93</td>
<td>92</td>
<td>91</td>
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<td>84</td>
</tr>
<tr>
<td>45°</td>
<td>97</td>
<td>95</td>
<td>94</td>
<td>92</td>
<td>91</td>
<td>90</td>
<td>89</td>
<td>88</td>
<td>84</td>
</tr>
<tr>
<td>50°</td>
<td>97</td>
<td>94</td>
<td>93</td>
<td>92</td>
<td>91</td>
<td>89</td>
<td>88</td>
<td>87</td>
<td>83</td>
</tr>
<tr>
<td>55°</td>
<td>96</td>
<td>94</td>
<td>93</td>
<td>91</td>
<td>90</td>
<td>89</td>
<td>88</td>
<td>87</td>
<td>83</td>
</tr>
<tr>
<td>60°</td>
<td>96</td>
<td>93</td>
<td>92</td>
<td>91</td>
<td>89</td>
<td>88</td>
<td>87</td>
<td>86</td>
<td>82</td>
</tr>
<tr>
<td>65°</td>
<td>96</td>
<td>94</td>
<td>92</td>
<td>91</td>
<td>90</td>
<td>88</td>
<td>87</td>
<td>86</td>
<td>82</td>
</tr>
</tbody>
</table>

Measured LED temperature for an ambient temperature range of 25°C to 65°C and calculated lumen maintenance using TM-21 calculator and LED LM80 data.

## Thermal Roll-Off

### Thermal Roll-off 9000lm

![Thermal Roll-off 9000lm Graph](chart.png)

<table>
<thead>
<tr>
<th>Ambient Temperature (°C)</th>
<th>Lumen Degradation</th>
</tr>
</thead>
<tbody>
<tr>
<td>25°</td>
<td>100%</td>
</tr>
<tr>
<td>30°</td>
<td>100%</td>
</tr>
<tr>
<td>35°</td>
<td>99%</td>
</tr>
<tr>
<td>40°</td>
<td>98%</td>
</tr>
<tr>
<td>45°</td>
<td>97%</td>
</tr>
<tr>
<td>50°</td>
<td>97%</td>
</tr>
<tr>
<td>55°</td>
<td>96%</td>
</tr>
<tr>
<td>60°</td>
<td>95%</td>
</tr>
<tr>
<td>65°</td>
<td>96%</td>
</tr>
</tbody>
</table>

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Dimming

Dimming Characterization 0-10V

Input Power VS Dimming

Light output VS Dimming

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www.dialight.com
Mounting Accessories

Low Profile Models

LPXW4LP
- 316 Stainless steel low profile mounting bracket
- Can be angled at 0° and 15°

LPXW4
- 316 Stainless steel mounting bracket
- Can be angled at 0°, 30°, 45°, 60° & 90°

LTXSAFEKIT
- Safety cable kit for secondary retention

LTXENDCAPKIT
- 316 Stainless steel chain mount and secondary retention bracket

Top Conduit Models

LTXW4SS
- 316 Stainless steel mounting bracket
- Can be angled at 0°, 30°, 45°, 60° and 90°

LTXW4
- Powder coated aluminum mounting bracket
- Can be angled at 0°, 30°, 45°, 60° and 90°

LTXW4LPSS
- 316 Stainless steel mounting bracket
- Can be angled at 0° and 15°

LTXW4LP
- Powder coated aluminum mounting bracket
- Can be angled at 0° and 15°

LTXSAFEKIT
- Safety cable kit for secondary retention

LTXENDCAPKIT
- 316 Stainless steel chain mount and secondary retention bracket
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