Vigilant® LED Floodlight - UL/CSA
for Indoor and Outdoor Industrial Applications

AUGUST 2019
The Vigilant® LED Floodlight represents the future of energy efficient facility illumination for industrial applications worldwide. The lighting fixture consumes at least 50% less energy than traditional HID light sources, while reducing maintenance and carbon emissions. This light incorporates both cutting edge LED technology along with proprietary optics to achieve flood lighting comparable with other traditional light sources.

Features & Benefits

- 10 year warranty
- L70 rated for >100,000 hours @ 25°C ambient
- Instant on/off operation
- Universal input (100-277 VAC, 50/60Hz and 347/480 VAC, 60Hz)
- Superior color rendition index compared to HPS, LPS, MH
- Mercury free
- Resistant to shock and vibration
- Temperature compensation technology for longer life
- Safety tabs provided for secondary retention
Vigilant® LED Dual Floodlight - UL / CSA

Standard Models

Mechanical Information:
- Fixture weight: 56 lb (25.4 kg)
- Shipping weight: 60 lb (27.2 kg)
- EPA (sq.ft): 2.69
- Mounting: 304 Stainless Steel trunnion mounting bracket included
- Entries: (2) 3/4" NPT cable entries

Electrical Specifications:
- Operating voltage: 100-277 VAC/120-250 VDC
- Power consumption: See table
- Operating temp: -40°F to +149°F (-40°C to +65°C)
- Noise requirement /EMC: FCC Title 47, Subpart B, Section 15, Class A device. RF Immunity; 10V/m, 80MHz-1GHz
- Surge protection: 6kV/2 ohm combination wave, as per IEEE C62.41, line-line and line-ground
- THD: < 20%
- Power factor: > 0.9

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

Construction:
- Housing: Copper-free aluminum
- Finish: Superior dual coat finish
  - Sealed polyester topcoat
  - Epoxy primer
- Lens: Tempered glass

Photometric Information:
- CRI: 80
- CCT:
  - 5000K (cool white)
  - 4000K (neutral white)
- Beam patterns:
  - Medium distribution
  - NEMA 6 distribution
  - NEMA 7x6 distribution
- IES files: Available at www.dialight.com

All values typical unless otherwise stated (tolerance +/- 10%)
### Vigilant® LED Dual Floodlight - UL / CSA

#### 347/480 VAC Models

<table>
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<tr>
<th>Mechanical Information:</th>
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<tbody>
<tr>
<td>Fixture weight:</td>
<td>73 lb (33.1 kg)</td>
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<td>Shipping weight:</td>
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<td>EPA (sq.ft):</td>
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<tr>
<td>Mounting:</td>
<td>304 Stainless Steel trunnion mounting bracket included</td>
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<tr>
<td>Entries:</td>
<td>(2) 3/4” NPT cable entries</td>
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<th>Electrical Specifications:</th>
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<td>Operating voltage:</td>
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<td>Power consumption:</td>
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<td>Operating temp:</td>
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<td>Noise requirement /EMC:</td>
<td>FCC Title 47, Subpart B, Section 15, Class A device. RF Immunity; 10V/m, 80MHz-1GHz</td>
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<td>Surge protection:</td>
<td>6kV/2 ohm combination wave, as per IEEE C62.41, line-line and line-ground</td>
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<td>THD:</td>
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<td>Power factor:</td>
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<table>
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<th>Variable Dimming:</th>
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<tr>
<td>Variable dimming control:</td>
<td>0-10 VDC</td>
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<tr>
<td>Dimming range:</td>
<td>10 VDC = 100% light output 0 VDC = &lt;5% light output</td>
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<table>
<thead>
<tr>
<th>Construction:</th>
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<tbody>
<tr>
<td>Housing:</td>
<td>Copper-free aluminum</td>
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<tr>
<td>Finish:</td>
<td>Superior dual coat finish - Sealed polyester topcoat - Epoxy primer</td>
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<tr>
<td>Lens:</td>
<td>Tempered glass</td>
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<table>
<thead>
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<th>Photometric Information:</th>
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<td>CRI:</td>
<td>80</td>
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<tr>
<td>CCT:</td>
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<td>Beam patterns:</td>
<td>Medium distribution NEMA 6 distribution NEMA 7x6 distribution</td>
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<td>IES files:</td>
<td>Available at <a href="http://www.dialight.com">www.dialight.com</a></td>
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All values typical unless otherwise stated (tolerance +/- 10%)
Vigilant® LED Single Floodlight - UL / CSA
Standard Models

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Certifications & Ratings
• UL 1598/A
• CSA C22.2 No. 250
• NEMA 4X
• IP66
• IK07

Dimensions in inches [mm]

Mechanical Information:
- Fixture weight: 34 lb (15.4 kg)
- Shipping weight: 39 lb (17.7 kg)
- Mounting: 304 Stainless Steel forward throw bracket
- Entries: (2) 3/4" NPT cable entries

Electrical Specifications:
- Operating voltage: 100-277 VAC/120-250 VDC
- Power consumption: See table
- Operating temp: -40°C to +65°C (-40°F to +149°F)
- Noise requirement /EMC: FCC Title 47, Subpart B, Section 15, Class A device. RF Immunity; 10V/m, 80MHz-1GHz
- Surge protection: 6kV/2 ohm combination wave, as per IEEE C62.41, line-line and line-ground
- THD: < 20%
- Power factor: > 0.9

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

Construction:
- Housing: Copper-free aluminum
- Finish: Superior dual coat finish
- Lens: Tempered glass

Photometric Information:
- CRI: 80
- CCT: 5000K (cool white)
- 4000K (neutral white)
- Beam patterns: NEMA 6 distribution
- NEMA 7x6 distribution
- IES files: Available at www.dialight.com

All values typical unless otherwise stated (tolerance +/- 10%)
Vigilant® LED Floodlight - UL / CSA
Mounting Accessories & Beam Distribution

HZXCBL2
- Safety cable kit
- Kit includes: (2) safety cables

FLX-1TPT-20DB
- Tenon pole topper, 2-3/8" mount
- Kit includes: tenon topper, pole set screws, and mounting hardware

FLX-3RPA-20DB
- Reducer for 3" or 4" OD round pole top to 2-3/8" light mount
- Kit includes: reducer pole set screws

FLX-4SPA-20DB
- Internal tenon adapter for 4", 5" or 6" square pole top to 2-3/8" light mount
- Kit includes: adapter

1Bracket and adapters require tenon adapter (FLX-1TPT-20DB) to mount floodlight. Tenon adapter is sold separately.

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Vigilant® LED Floodlight - UL / CSA
Dimensional Drawings

Dual Model

Dual Floodlight Mounting Options

Factory Installed Mounting Bracket Dimensions

Single Model

Factory Installed Mounting Bracket Dimensions

Dimensions in inches [mm]

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www.dialight.com
## Vigilant® LED Floodlight - UL / CSA
### Ordering Information

#### Standard Models - 100-277 VAC/120-250 VDC

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Legacy Part Number</th>
<th>Fixture Lumens</th>
<th>Wattage</th>
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<th>Voltage</th>
<th>CCT</th>
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<td>142</td>
<td>100-277 VAC//120-250 VDC</td>
<td>5000K (cool white)</td>
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<td>NEMA 7x6</td>
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All values typical unless otherwise stated (tolerance +/- 10%).
For neutral white models, replace the 6th character (standard) / 8th character (legacy) with an N. Ex. FDU76C2AMNSNNGN / FLWB66NC2NG becomes FDU76N2AMNSNNGN / FLWB66N2NG.

#### Standard Models - 347/480 VAC

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<th>Part Number</th>
<th>Legacy Part Number</th>
<th>Fixture Lumens</th>
<th>Wattage</th>
<th>lm/W</th>
<th>Voltage</th>
<th>CCT</th>
<th>Lens</th>
<th>Beam Distribution</th>
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<td>FDU76CAMDSNNGN</td>
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<td>FLWB0MNC5NG</td>
<td>54,000</td>
<td>457</td>
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<td>Tempered Glass</td>
<td>Medium</td>
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<td>FLWB76NC5NG</td>
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<td>FDU77CASONNNGN</td>
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<td>347/480 VAC</td>
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<td>Tempered Glass</td>
<td>NEMA 7x6</td>
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</table>

All values typical unless otherwise stated (tolerance +/- 10%).
For neutral white models, replace the 6th character (standard) / 8th character (legacy) with an N. Ex. FDU76C2AMNSNNGN / FLWB66NC5NG becomes FDU76N2AMNSNNGN / FLWB66N5NG.

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