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

www.dialight.com
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 = <10% 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

Certifications & Ratings
- UL 1598/A
- CSA C22.2 No. 250
- NEMA 4X
- IP66
- IK05

Mechanical Information:
- Fixture weight: 73 lb (33.1 kg)
- Shipping weight: 79 lb (35.8 kg)
- EPA (sq.ft): 2.69
- Mounting: 304 Stainless Steel trunion mounting bracket included
- Entries: (2) 3/4" NPT cable entries

Electrical Specifications:
- Operating voltage: 347/480 VAC, 60Hz
- 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 = <10% 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 Single Floodlight - UL / CSA
Standard Models

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.

Mechanical Information:
- Fixture weight: 34 lb (15.4 kg)
- Shipping weight: 39 lb (17.7 kg)
- Mounting: 304 Stainless Steel forward throw bracket
- Entries: (3) 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: 100-277 VAC models tested to withstand up to 8kV/4kA per IEEE C62.41
- THD: < 20%
- Power factor: > 0.9

Variable Dimming:
- Variable dimming control: 0-10 VDC
- Dimming range: 10 VDC = 100% light output
  0 VDC = <10% 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: 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
FLX-4RPA-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
FLX-5SPA-20DB
FLX-6SPA-20DB
- Internal tenon adapter for 4”, 5” or 6” square pole top to 2-3/8” light mount
- Kit includes: adapter

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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]
## 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>
<th>lm/W</th>
<th>Voltage</th>
<th>CCT</th>
<th>Lens</th>
<th>Beam Distribution</th>
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<tr>
<td>FDU76C2MDSNNGN</td>
<td>FLWB66NC2NG</td>
<td>56,000</td>
<td>385</td>
<td>145</td>
<td>100-277 VAC/120-250 VDC</td>
<td>5000K (cool white)</td>
<td>Clear Tempered Glass</td>
<td>NEMA 6</td>
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<td>FDU7MC2MDSNNGN</td>
<td>FLWB0NC2NG</td>
<td>54,000</td>
<td>380</td>
<td>142</td>
<td>100-277 VAC/120-250 VDC</td>
<td>5000K (cool white)</td>
<td>Clear Tempered Glass</td>
<td>NEMA 7x6</td>
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<tr>
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<td>FLWB76NC2NG</td>
<td>39,000</td>
<td>270</td>
<td>144</td>
<td>100-277 VAC/120-250 VDC</td>
<td>5000K (cool white)</td>
<td>Clear Tempered Glass</td>
<td>NEMA 6</td>
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<td>FDU76C2HDSNNGN</td>
<td>FLW966NC2NG</td>
<td>37,500</td>
<td>265</td>
<td>141</td>
<td>100-277 VAC/120-250 VDC</td>
<td>5000K (cool white)</td>
<td>Clear Tempered Glass</td>
<td>NEMA 7x6</td>
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</tbody>
</table>

**Dual Floodlight Models**

**Single Floodlight Models**

For neutral white models, replace the 6th character (standard) / 8th character (legacy) with an N. Ex. FDU76C2MNSNNGN / FLWB66N2NG becomes FDU76N2MNSNNGN / FLWB66N2NG.

### Standard Models - 347/480 VAC

<table>
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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>FLWB66NC5NG</td>
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<td>347/480 VAC</td>
<td>5000K (cool white)</td>
<td>Tempered Glass</td>
<td>NEMA 6</td>
</tr>
<tr>
<td>FDU7MCAMDSNNGN</td>
<td>FLWB0NC5NG</td>
<td>54,000</td>
<td>457</td>
<td>409</td>
<td>347/480 VAC</td>
<td>5000K (cool white)</td>
<td>Tempered Glass</td>
<td>Medium</td>
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<td>FLWB76NC5NG</td>
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<td>347/480 VAC</td>
<td>5000K (cool white)</td>
<td>Tempered Glass</td>
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<td>NEMA 6</td>
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<td>FLW976NC5NG</td>
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<td>347/480 VAC</td>
<td>5000K (cool white)</td>
<td>Tempered Glass</td>
<td>NEMA 7x6</td>
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</tbody>
</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. FDU76C2MNSNNGN / FLWB66N2NG becomes FDU76N2MNSNNGN / FLWB66N2NG.

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