Cooper Lighting
by EATON
The Next Chapter in LED Roadway Lighting

The XNV2 LED luminaire replaces HPS roadway lighting with a simple, economical package. Designed to replace 150W HPS, the XNV2 luminaire is the perfect answer for local roadway and utility lighting needs.

Construction
- IP66 light squares
- 3G vibration rated
- Rugged, die-cast aluminum construction
- Wet location rated housing (IP66 housing available)
- Tool-less entry with hinged removable door for ease of maintenance

Electrical
- Operates in -40°C to 40°C ambient temperatures
- UL1449 Listed, 10kV/10kA common (line-to-ground) and differential (line-to-line) surge protector
- L90, 60,000 hours at 40°C, compliant with IESNA TM-21
- 120-277V 50/60Hz, 347V/60Hz, or 480V/60Hz operation

Finish
- Five-stage super durable TGIC paint resists extreme weather conditions while providing optimal color and gloss retention
- Available unpainted, or in grey, bronze, black, dark platinum, graphite metallic and white painted finishes

Warranty
- Five-year warranty

Innovation you can rely on™

Tool-less Entry
Stainless steel latches provide easy, tool-less access to electrical compartment, even while wearing lineman’s gloves.

NEMA Photocontrol Receptacle
Gasketed receptacle for mounting standard NEMA photocontrol. (Order separately)

Bird Guard
Standard bird guard fits securely around 1-1/4” and 2” standard pipe (1-5/8” to 2-3/8” O.D.).

Surge Protection
Standard UL 1449 Listed 10kV/10kA surge protection device protects against common (line-to-ground) and differential (line-to-line) mode surges.

Two-Bolt Mounting
Additional mounting bracket is available for four-bolt mounting.

Rugged and Efficient Construction
Die-cast aluminum housing and door. Heat sink is cast into door, allowing passive cooling and natural cleaning.
### Ordering Information

#### Lumen Maintenance

<table>
<thead>
<tr>
<th>Ambient Temperature</th>
<th>TM-21 Lumen Maintenance (60,000 Hours)</th>
<th>Theoretical L70 (Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>40°C</td>
<td>&gt; 90%</td>
<td>&gt; 250,000</td>
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#### Lumen Multiplier

<table>
<thead>
<tr>
<th>Ambient Temperature</th>
<th>Lumen Multiplier</th>
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</thead>
<tbody>
<tr>
<td>10°C</td>
<td>1.04</td>
</tr>
<tr>
<td>15°C</td>
<td>1.03</td>
</tr>
<tr>
<td>25°C</td>
<td>1.00</td>
</tr>
<tr>
<td>40°C</td>
<td>0.96</td>
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</table>

#### Power and Lumens

<table>
<thead>
<tr>
<th>Number of LED Squares</th>
<th>2</th>
<th>2</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED Drive Current</td>
<td>1A</td>
<td>700mA</td>
<td>525mA</td>
</tr>
<tr>
<td>Luminaire Wattage</td>
<td>110W</td>
<td>76W</td>
<td>56W</td>
</tr>
<tr>
<td>Input Current @ 120V (A)</td>
<td>0.92</td>
<td>0.63</td>
<td>0.47</td>
</tr>
<tr>
<td>Input Current @ 277V (A)</td>
<td>0.40</td>
<td>0.27</td>
<td>0.20</td>
</tr>
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</table>

#### Optics

<table>
<thead>
<tr>
<th>Type</th>
<th>Lumens</th>
<th>BUG Rating</th>
<th>Type II</th>
<th>Type III</th>
<th>Type V</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>9,817</td>
<td>7,588</td>
<td>5,902</td>
<td>10,064</td>
<td>10,117</td>
</tr>
</tbody>
</table>

#### Sample Number: XNV2-AC-02-E-U-2-10K-4-AP

### Dimensions

- **Arm Drilling Type “M”**
  - 2-5/16” [62mm]
  - 3/4” [19mm]
  - 9-3/4” [248mm]
  - 4-7/8” [124mm]
- **Optional Mounting Arm**
  - 22” UPPSWEEP ARM

- **Sample Number:** XNV2-AC-02-E-U-2-10K-4-AP

### Options (Add As Suffix)

- **7030-70 CRI 3000K**
- **7060-70 CR 6000K**
- **525-Drive Current Factory Set to 525mA**
- **700-Drive Current Factory Set to 700mA**
- **FADC-Field Adjustable Drive Current**
- **4-NEMA Twistlock Photocontrol Receptacle**
- **K-Level Indicator**
- **U-UL Listed/CSA Certified**
- **IP66/IP67 Rated**
- **MS/X-L08-ON/Off Motion Sensor, Maximum 8” Mounting Height**
- **MS/X-L20-ON/OFF Motion Sensor, 8”-20” Mounting Height**
- **MS/LD-M08-Motion Sensor for Dimming Operation, Maximum 8” Mounting Height**
- **MS/LD-M20-Motion Sensor for Dimming Operation, 9” to 20” Mounting Height**
- **MS/LD-M40-Motion Sensor for Dimming Operation, 21” to 40” Mounting Height**
- **AI-Site Arm Included**

### Color

- **AP** = Grey (Standard)
- **BZ** = Bronze
- **BK** = Black
- **GM** = Graphite Metallic
- **WH** = White
- **A** = Raw Aluminum
- **U** = Unfinished

### Accessories (Order Separately)

- **OAR1016-** NEMA Photocontrol - Multi-Tap
- **OAR1027-** NEMA Photocontrol - 480V
- **OAR1201-** NEMA Photocontrol - 347V
- **OAR1013-** Photocontrol Shorting Cap
- **OAR1014-** NEMA Photocontrol - 120V
- **OAR1223-** 10kV Surge Module Replacement
- **FSIR-100-** Wireless Configuration Tool for Motion Sensor
- **LS/HS-XX-** Light Square House Side Shield

**NOTES:**
- 1 Standard 4000K CCT and 70 CRI
- 2 Consult factory for dimming driver values.
- 3 Sensor mounted externally.
- 4 Hand-held tool that enables adjustment of parameters, including high and low modes, sensitivity, time delay, cut-off, and more. Consult your Eaton’s Cooper Lighting business representative for more information.
- 5 Only available with dimming driver.
- 6 Sensor mounted externally. Must specify dimming driver. Consult factory for more information.
- 7 Only available with dimming driver.
- 8 “Hand” tool that enables adjustment of parameters, including high and low modes, sensitivity, time delay, cut-off, and more. Consult your Eaton’s Cooper Lighting business representative for more information.
- 9 Only available with dimming driver.
- 10 Replace XX with color.

### Additional Information

<table>
<thead>
<tr>
<th>Compliances</th>
<th>Technical Data (Electronic Driver)</th>
<th>EPA (Effective Projected Area - Square Feet)</th>
<th>Shipping Data (Approximate Net Weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL and cUL Wet Location Listed</td>
<td>0.9 Power Factor</td>
<td>1.0</td>
<td>22 lbs. (10.0 kgs.)</td>
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<tr>
<td>IP66 Light Square</td>
<td>&lt;20% Total Harmonic Distortion</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3G Vibration Rated</td>
<td>120-277V 50/60 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARPA Compliant</td>
<td>347V/60 Hz, 480V/60 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UL 1449 Surge Protection</td>
<td>-40°C Minimum Ambient Temperature Rating</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UL Class 2 Electrical Device</td>
<td>+40°C Maximum Ambient Temperature Rating</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DesignLights Consortium® Qualified*</td>
<td></td>
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</tbody>
</table>

* Consult DesignLights.org for list of qualified configurations.

**NOTE:** Specification and dimensions subject to change without notice.
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