**GENERAL DESCRIPTION**

Neptun's modular LED parking lot fixtures combine architectural form and versatility to make it an excellent choice for new construction or retrofit applications. The LED-31 series fixture is offered in a variety of wattages to provide maximum flexibility in all types of applications. The High output LED's and custom engineered optics provide excellent uniformity and efficiency. It can replace existing HID & HPS fixtures up to 750W.

**APPLICATION**
- Parking Lot Lighting
- Street Lighting
- Walkway Lighting
- Area Lighting
- Security Lighting
- Storage Area Lighting

**STRUCTURE, MATERIALS, & FEATURES**
- Heavy-gauge, die-cast aluminum housing.
- Corrosion resistant electrocoat grey finish (custom colors available).
- Slim, state of the art, low profile design for minimum wind load resistance.
- Continuous silicone gasket surrounds lens for weather tight seal.
- Correlated Color Temperature of (5000°K) for greater visibility and safety.
- High Output COB LED's.
- Driver with built in Neptun Surge Protective Device (NSPD) provides single phase protection for Line/Neutral, Line/Ground, and Neutral/Ground in accordance with IEEE C62.41 C High (10kV & 10kA).
- InstantON flicker-free Cold Start and Hot Re-Start.
- Up to 15 years Maintenance free operation.
- 10 Year Warranty on complete fixture. (LED's, Driver, & Housing)
- Optional: 0-10V Dimming, Bi-Level Dimming, Wi-Fi Control, Remote Monitoring and ON/OFF Control

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Series</th>
<th>Wattage</th>
<th>Voltage</th>
<th>Options</th>
<th>Mounting</th>
<th>CCT</th>
<th>Accessories</th>
<th>Optics</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED-31 = Area / Parking Fixture</td>
<td>320-M4 = 320 W</td>
<td>UNV = 120-277 VAC</td>
<td>0-10VDIM = 0-10V Dimming</td>
<td>SA6 = 6” Side Arm</td>
<td>835 = 3500°K</td>
<td>LD = Twistlock Photocell</td>
<td>GRY = Grey</td>
<td></td>
</tr>
<tr>
<td>347V = 347 VAC</td>
<td>BL-DIM = Bi-Level Dimming *</td>
<td>SAFR = 6” Side Arm (round pole adapter)</td>
<td>* Includes Motion Sensor</td>
<td>WM0 = 0” Wall Mount</td>
<td>841 = 4100°K</td>
<td>MD = Motion Sensor</td>
<td>BRZ = Bronze</td>
<td></td>
</tr>
<tr>
<td>480V = 480 VAC</td>
<td></td>
<td>WM6 = 6” Wall Mount</td>
<td></td>
<td>SF = Slip Fitter</td>
<td>850 = 5000°K *</td>
<td>LGN = Light Genie Node **</td>
<td>* Custom Colors Available</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>YK = Yoke Bracket</td>
<td>* Standard</td>
<td>** Contact factory for product information</td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>* See Pg. 2 for mounting options</td>
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</tbody>
</table>

Sample Number: LED-31320-M4-UNV-0-10VDIM-SF-850-LD-T3-GRY

Custom options and accessories available. Please consult factory.
PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Rated Watts</th>
<th>Input Watts</th>
<th>Initial Lumens</th>
<th>Universal Line Voltage (VAC)</th>
<th>Max Line Current (Amp)</th>
<th>THD</th>
<th>Power Factor</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED-31320-M4-UNV</td>
<td>Area/Parking Fixture</td>
<td>320</td>
<td>323</td>
<td>28,101</td>
<td>120-277</td>
<td>3.26 - 1.21</td>
<td>&lt;20%</td>
<td>&gt;0.90</td>
<td>40 lbs.</td>
</tr>
</tbody>
</table>

SPECIFICATIONS

- Driver .................................................. Constant Current
- Start Method ............................................ InstantON
- Hot Re-start ............................................ InstantON
- Power Supply ............................................ 350mA
- Driver UL Rating ...................................... Class 1
- Driver UL Outdoor Rated ................................ Wet Location
- Sound Rating ............................................. Class A
- ANSI Surge Protection .................................. IEEE C62.41 C High
- Current Crest Factor .................................. 1.5 maximum
- Load Regulation: 5% output current variation across load range
- Line Regulation: 1% output voltage variation across voltage range
- Driver Off-State Draw .................................. 0 Watts
- Vibration Compliance .................................. 3G
- Universal Input Line Voltage ......................... 120-277 VAC
- Input Line Frequency ................................... 50/60 Hz
- LED / Driver System Life ................................ 75,000 Hrs.
- Lumen Maintenance @50,000Hrs ......................... > 70%
- Color Temperature ...................................... 5,000°K
- Color Rendering Index (CRI) .......................... > 80
- Minimum Starting Temperature ......................... -40°C
- Maximum Starting Temperature ......................... +50°C
- Lumens per Watt ........................................ > 90
- Shock / Vibration Resistant ............................ Yes
- Power Factor ............................................ > 0.90
- Total Harmonic Distortion ............................. < 20%
- Inrush Current Peak .................................... < 10 Amp
- FCC Compliance .......................................... Part 15, Subp. C
- ETL Listed / UL Standard 1598 ......................... Yes
- EPA Rating .............................................. 0.71 ft.²
- Housing IP Rating ....................................... IP65
- Driver IP Rating ........................................ IP67
- Optics IP Rating ........................................ IP68
- Warranty .................................................. 10 Year
- Universal Input Line Voltage ......................... 120-277 VAC
- Input Line Frequency ................................... 50/60 Hz
- LED / Driver System Life ................................ 75,000 Hrs.
- Lumen Maintenance @50,000Hrs ......................... > 70%
- Color Temperature ...................................... 5,000°K
- Color Rendering Index (CRI) .......................... > 80
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- FCC Compliance .......................................... Part 15, Subp. C
- ETL Listed / UL Standard 1598 ......................... Yes
- EPA Rating .............................................. 0.71 ft.²
- Housing IP Rating ....................................... IP65
- Driver IP Rating ........................................ IP67
- Optics IP Rating ........................................ IP68
- Warranty .................................................. 10 Year

MOUNTING CONFIGURATION

Wall Mount (WM6)

Arm Mount Single (SA6)

Slip Fitter Mount (SF)

Yoke Mount (YK)

2-1/2" I.D. Accepts up to 2-3/8" Tenon or Pipe

DRILLING PATTERNS

SA6, SA6R

2-1/2" dia. hole (middle)
7/16" dia. holes (2)

1.00"

2.25"

1/2"

5.50"

4.50"

WM6

1/2" dia. hole (middle)
7/16" dia. holes (4)

PHOTOMETRY (See Complete IES File)

Type 3 Distribution

Type 5 Distribution