

\*\* AVAILABLE \*\*

Bi-Level Dimming  
100% 50%

0 - 10V  
FULL DIMMING



Incredible **75,000 hrs**

## GENERAL DESCRIPTION

Neptun's Modular LED Street Light fixtures combine architectural form and versatility to make it an excellent choice for new construction or retrofit applications. The LED-89 series fixture is offered in a variety of wattages to provide maximum flexibility in all types of applications. Custom engineered optics provide excellent uniformity and efficiency. It can replace existing HID & HPS fixtures up to 400W.

## APPLICATION

- Street Lighting
- Pathway Lighting
- Parking Lot Lighting
- Security Lighting
- Storage Area Lighting

## STRUCTURE, MATERIALS, & FEATURES

- Heavy-gauge, die-cast aluminum housing with excellent thermal management.
- Corrosion resistant polyester powder finish (custom colors available).
- Slim, state of the art, low profile design for minimum wind load resistance.
- Tool-Less entry housing for easy maintenance and installation.
- Continuous silicone gasket surrounds lens for IP68 weather tight seal.
- Optional NEMA Twistlock Photocell for increased energy savings.
- Modular High Output design with Cree LED Chips.
- 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

Sample Number: LED-89170-M4-UNV-0-10VDIM-850-LD-T2-GRY  
Custom options and accessories available. Please consult factory

Series	Wattage	Voltage	Options	Color Temp	Accessories	Optics	Color
<b>LED-89</b> = Modular Street Light	<b>170-M4</b> = 170 W <b>180-M4</b> = 180 W <b>190-M4</b> = 190 W <b>200-M4</b> = 200 W <b>210-M4</b> = 210 W <b>220-M4</b> = 220 W	<b>UNV</b> = 120-277 VAC <b>347V</b> = 347 VAC <b>480V</b> = 480 VAC <b>24VDC</b> = 24 VDC	<b>0-10VDIM</b> = 0-10V Dimming <b>BL-DIM</b> = Bi-Level Dimming * * Includes Motion Sensor * Contact factory for dimming options	<b>835</b> = 3500°K <b>841</b> = 4100°K <b>850</b> = 5000°K * * Standard	<b>LD</b> = NEMA Photocell <b>MD</b> = Motion Sensor ON/OFF <b>LGN</b> = Light Genie Node ** ** Contact factory for product information	<b>T2</b> = Type 2 Distribution <b>T2N</b> = Type 2 Narrow Distribution	<b>GRY</b> = Grey <b>BRZ</b> = Bronze * Custom Colors Available



## PRODUCT INFORMATION

Model No.	Description	Rated Watts	Input Watts	Initial Lumens	Universal Line Voltage (VAC)	Max Line Current (Amp) 120 - 277	THD	Power Factor	Weight
LED-89170-M4-UNV	LED Roadway Fixture	170	172	17,000	120-277	1.48 - 0.64	<20%	>0.90	35 lbs
LED-89180-M4-UNV	LED Roadway Fixture	180	182	18,000	120-277	1.57 - 0.68	<20%	>0.90	35 lbs
LED-89190-M4-UNV	LED Roadway Fixture	190	192	19,000	120-277	1.66 - 0.72	<20%	>0.90	35 lbs
LED-89200-M4-UNV	LED Roadway Fixture	200	202	20,000	120-277	1.74 - 0.75	<20%	>0.90	35 lbs
LED-89210-M4-UNV	LED Roadway Fixture	210	212	21,000	120-277	1.83 - 0.79	<20%	>0.90	35 lbs
LED-89220-M4-UNV	LED Roadway Fixture	220	222	22,000	120-277	1.92 - 0.83	<20%	>0.90	35 lbs

## 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
- EPA Rating ..... 0.70 ft.<sup>2</sup>
- Housing IP Rating ..... IP65
- Driver IP Rating ..... IP67
- Optics IP Rating ..... IP68
- Warranty ..... 10 Year

## MOUNTING OPTIONS

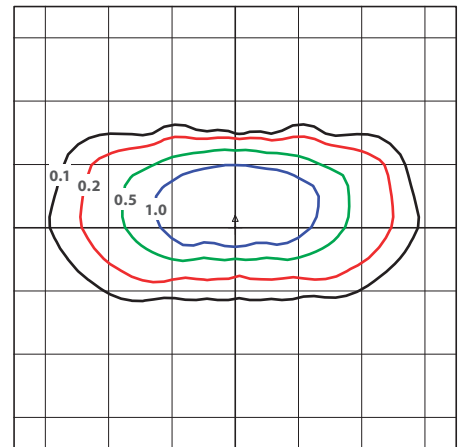
Accepts 1-1/4" - 2-3/4" O.D.  
Tenon or Pipe



(2) Mounting Clamps  
(4) Stainless Steel Fastening Bolts

Tool-Less Entry  
Latch

## PHOTOMETRICS (See Complete IES File)



Horizontal Footcandles  
Scale: 1 Hash = 50 Ft.  
Light Loss Factor = 1.00  
Total Lamp Lumens = 22306.26  
Mounting Height = 40.00 Ft., Tilt = 5 Degrees  
Maximum Calculated Value = 2.03 Fc  
Arrangement: Single

NEPTUN LIGHT, INC.  
LED-89220-M4-UNV-850-T2