** AVAILABLE **

Bi-Level 100% | Dimming 50%
0 - 10V FULL DIMMING

Dark Sky FRIENDLY

12.50"
26.25"
3.50"

## Incredible 100,000 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 250W.

## 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.
· Continuous silicone gasket surrounds lens for IP68 weather tight seal.
· Tool-Less entry housing for easy installation and maintenance.
· Internal Bubble Level for easy installation.
· Optional NEMA Twistlock Photocell for increased energy savings.
· High Output COB LED's with borocilicate glass lens optics.
· High power factor, low THD driver with 6kV/3kA surge protection. Optional 20kV/10kA surge protector available.
· 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, DC 24V Operation - Solar Compatible

## ORDERING  INFORMATION

Sample Number: LED-89120-M3-UNV-0-10VDIM-850-LD-T2-GRY
Custom options and accessories available. Please consult factory

| Series | Wattage | Voltage | Options | Color Temp | Accessories | Optics | Color |
|--------|---------|---------|---------|-----------|-------------|--------|-------|
| | | | | | | | |
| **LED-89** = Modular Street Light | **100-M3** = 100 W<br>**110-M3** = 110 W<br>**120-M3** = 120 W | **UNV** = 120-277 VAC<br>**347V** = 347 VAC<br>**480V** = 480 VAC<br>**24VDC** = 24 VDC *<br>**\*** Offered in 100W only | **0-10VDIM** = 0-10V Dimming<br>**BL-DIM** = Bi-Level Dimming *<br>**\*** Includes Motion Sensor<br>**\*** Contact factory for dimming options | **830** = 3000°K<br>**835** = 3500°K<br>**841** = 4100°K<br>**850** = 5000°K | **LD** = NEMA Twist-Lock Photocell & Receptical<br>**LDR-3P** = 3-Pin Photocell Receptical<br>**LDR-7P** = 7-Pin Photocell Receptical<br>**MD** = Motion Sensor ON/OFF<br>**SP** = 20kV/10kA surge protector<br>**HSGS** = House Side Glare Shield<br>**LGN** = Light Genie Node *<br>**\*** Contact factory for product Information | **T2** = Type 2 Distribution<br>**T2N** = Type 2 Narrow Dist. | **GRY** = Grey<br>**BRZ** = Bronze<br>**\*** Custom Colors Available |

PROUDLY MADE IN AMERICA
WITH DOMESTIC AND IMPORTED MATERIALS

RoHS LEAD FREE COMPLIANT

*light*innovations@work™

**NEPTUN** LIGHT

## PRODUCT INFORMATION

| Model No. | Description | Rated Watts | Input Watts | Delivered Lumens | Universal Line Voltage (VAC) | Max Line Current (Amp) 120 - 277 | THD | Power Factor | Weight |
|---|---|---|---|---|---|---|---|---|---|
| LED-89100-M3-UNV | LED Roadway Fixture | 100 | 102 | 12,000 | 120-277 | 0.87 - 0.37 | <20% | >0.90 | 30 lbs |
| LED-89110-M3-UNV | LED Roadway Fixture | 110 | 112 | 13,200 | 120-277 | 0.96 - 0.41 | <20% | >0.90 | 30 lbs |
| LED-89120-M3-UNV | LED Roadway Fixture | 120 | 122 | 14,400 | 120-277 | 1.05 - 0.45 | <20% | >0.90 | 30 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
- Projected (L70) @ 25°C ........................... > 100,000 hrs.

- Color Temperature ................................ Multiple
- Color Rendering Index (CRI) ..................... > 80
- Minimum Starting Temperature ................. -40°C
- Maximum Starting Temperature ................. +50°C
- Lumens per Watt ................................... > 100
- 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 .......................................... 0.63 ft.²
- 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**

**Tool-Less Entry Latch**



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

## PHOTOMETRICS (See Complete IES File)



0.1  0.2  0.5  1.0  2.0
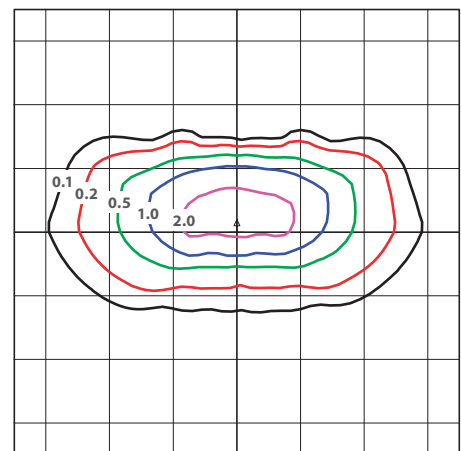
Horizontal Footcandles
Scale: 1 Hash = 40 Ft.
Light Loss Factor = 1.00
Total Lamp Lumens = 16767.8
Mounting Height = 30.00 Ft. , Tilt = 5 Degrees
Maximum Calculated Value = 2.73 Fc
Arrangement: Single

NEPTUN LIGHT, INC.
LED-89150-M3-UNV-850-T2

Spec. Rev. 7-2016