NEPTUN LIGHT

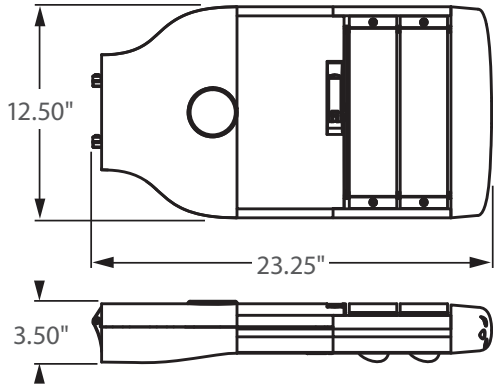
LED
MODULAR - STREET LIGHT FIXTURES
M2

** AVAILABLE **

Bi-Level 100% | Dimming 50%

0 - 10V FULL DIMMING

Dark Sky FRIENDLY



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 175W.

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, DC 24V Operation - Solar Compatible

ORDERING INFORMATION

Sample Number: LED-89080-M2-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	**080-M2** = 80 W **090-M2** = 90 W **100-M2** = 100 W **110-M2** = 110 W	**UNV** = 120-277 VAC **347V** = 347 VAC **480V** = 480 VAC **24VDC** = 24 VDC	**0-10VDIM** = 0-10V Dimming **BL-DIM** = Bi-Level Dimming * * Includes Motion Sensor * Contact factory for dimming options	**835** = 3500°K **841** = 4100°K **850** = 5000°K * * Standard	**LD** = NEMA Photocell **MD** = Motion Sensor ON/OFF **LGN** = Light Genie Node ** ** Contact factory for product information	**T2** = Type 2 Distribution **T2N** = Type 2 Narrow Distribution	**GRY** = Grey **BRZ** = Bronze * Custom Colors Available

RoHS COMPLIANT

lightinnovations@work™

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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-89080-M2-UNV	LED Street Light	80	82	8,000	120-277	0.69 - 0.30	<20%	>0.90	25 lbs
LED-89090-M2-UNV	LED Street Light	90	92	9,000	120-277	0.78 - 0.34	<20%	>0.90	25 lbs
LED-89100-M2-UNV	LED Street Light	100	102	10,000	120-277	0.87 - 0.37	<20%	>0.90	25 lbs
LED-89110-M2-UNV	LED Street Light	110	112	11,000	120-277	0.96 - 0.41	<20%	>0.90	25 lbs

SPECIFICATIONS

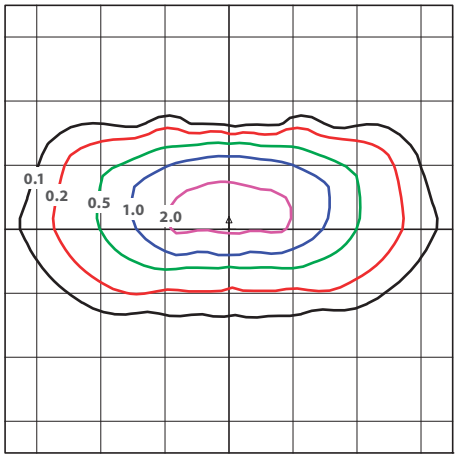
- Driver ..... Constant Current
- Start Method ..... InstantON
- Hot Re-start ..... InstantON
- Power Supply 350mA
- Driver UL Rating ..... Class 1
- Driver UL Outdoor Rated ..... Wet Location
- Sound Rating ..... Class A
- ANSI Surge Protection ..... IEEE C62.41 C High
- Current Crest Factor ..... 1.5 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 ..... 0.58 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

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

PHOTOMETRICS (See Complete IES File)



Horizontal Footcandles
Scale: 1 Hash = 30 Ft.
Light Loss Factor = 1.00
Total Lamp Lumens = 11303.32
Mounting Height = 25.00 Ft. , Tilt = 5 Degrees
Maximum Calculated Value = 2.65 Fc
Arrangement: Single

NEPTUN LIGHT, INC.
LED-89110-M2-UNV-850-T2

Neptun Light, Inc. reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program.
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Spec. Rev. 1-2015