

\*\* AVAILABLE \*\*

Bi-Level Dimming  
100% 50%

0 - 10V  
FULL DIMMING



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 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 grey 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 borosilicate 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 20 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-89140-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>140-M4</b> = 140 W <b>150-M4</b> = 150 W <b>160-M4</b> = 160 W	<b>UNV</b> = 120-277 VAC <b>347V</b> = 347 VAC <b>480V</b> = 480 VAC	<b>0-10VDIM</b> = 0-10V Dimming <b>BL-DIM</b> = Bi-Level Dimming * * Includes Motion Sensor * Contact factory for dimming options	<b>830</b> = 3000°K <b>835</b> = 3500°K <b>841</b> = 4100°K <b>850</b> = 5000°K <b>AMB</b> = Amber (585-595nm)	<b>LD</b> = NEMA Twist-Lock Photocell & Receptacle <b>LDR-3P</b> = 3Pin Photocell Receptacle <b>LDR-7P</b> = 7Pin Photocell Receptacle <b>MD</b> = Motion Sensor ON/OFF <b>SP</b> = 20kV/10kA surge protector <b>HSGS</b> = House Side Glare Shield <b>LGN</b> = Light Genie Node * * Contact factory for product Information	<b>T2</b> = Type 2 Distribution <b>T2N</b> = Type 2 Narrow Dist.	<b>GRY</b> = Grey * Custom Colors Available



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### PRODUCT INFORMATION

Model No.	Description	Input Watts	Delivered Lumens	Universal Line Voltage (VAC)	Max Line Current (Amp) 120 - 277	THD	Power Factor	Weight
LED-89140-M4-UNV	LED Roadway Fixture	142	18,460	120-277	1.22 - 0.53	<15%	>0.95	35 lbs
LED-89150-M4-UNV	LED Roadway Fixture	152	19,760	120-277	1.31 - 0.56	<15%	>0.95	35 lbs
LED-89160-M4-UNV	LED Roadway Fixture	162	21,060	120-277	1.39 - 0.60	<15%	>0.95	35 lbs

### SPECIFICATIONS

- Driver ..... Constant Current
- Start Method ..... InstantON
- Hot Re-start ..... InstantON
- 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 (± 300°K)
- Color Rendering Index (CRI) ..... > 80
- Minimum Starting Temperature ..... -40°C
- Maximum Starting Temperature ..... +50°C
- Lumens per Watt ..... > 130
- Shock / Vibration Resistant ..... Yes
- Power Factor ..... > 0.95
- Total Harmonic Distortion ..... < 15%
- 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

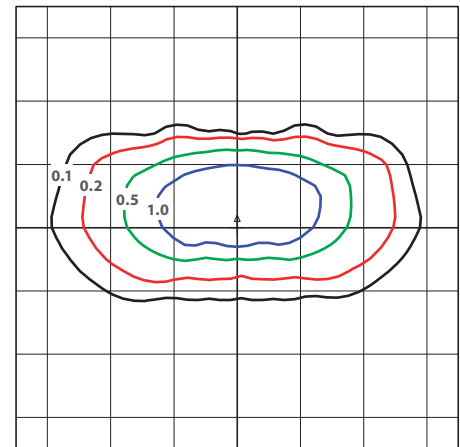


Tool-Less Entry  
Latch

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

Neptun Light, Inc.  
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### PHOTOMETRICS (See Complete IES File)



Horizontal Footcandles  
Scale: 1 Hash = 50 Ft.  
Light Loss Factor = 1.00  
Total Lamp Lumens = 21012.26  
Mounting Height = 40.00 Ft., Tilt = 5 Degrees  
Maximum Calculated Value = 2.03 Fc  
Arrangement: Single

NEPTUN LIGHT, INC.  
LED-89160-M4-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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