

|               |  |
|---------------|--|
| Date:         |  |
| Project Name: |  |
| SKU #:        |  |

**Nexus™**  
High Mast



**APPLICATIONS**

Highways, Interchanges, Ports, Rail Yards, Container Yards, Parking Lots, Correction Facilities, Treatment Plants

**FEATURES**

**Construction**

- A383 Die-cast Aluminum Alloy Housing
- Per ANSI C136: 3G Vibration Rating
- Internal Compartment Tool-Less Entry
- Rotatable optic assembly provides alignment of asymmetric distributions to roadway.

**Electrical & Technical**

- Input Voltage: 100-277V  
277-480V [Option]
- Input Frequency: 50/60Hz, 60Hz [480V]
- Projected Life: L90 > 66,000 hrs
- PF: >0.95
- CRI: >70
- THD: <20%
- CCT: 3000K, 4000K, 5000K
- Operating Temp.: -40°F ~ 122°F
- IP Rating: IP66 Enclosure/NEMA 4X
- IK Rating: IK08
- EPA Rating: 1.5 ft²
- Surge Protection: 20kV/10kA [Standard]:  
[Compliant: ANSI C136.2-2015 Extreme & IEEE C62.41.2 Location Category C High Exposure]
- Quick Connectors [Included]: 3 Stage Terminal Block Standard For Ease Of Installation and Maintenance.

**Controls**

- 1-10V Dimming [Standard]
- Bi-level Occupancy/Daylight Harvesting Sensor [Option]
- Twistlock Photocell [Option]
- Dimulator Dimming Photocontrol [Option]
- 7 Pin Twist Lock SYNAPSE Wireless Control System [Option]

**Lumen Output**

- See Page 2

**Finish**

- Gray [Powder Coating]:  
Per ASTM D1654:  
Scribe Creepage Rating Of 8  
Per ASTM B117:  
After 1,000 Hours Exposure To Salt Fog Chamber

**Optical**

- Prismatic PC Standard
- Glass Optics Option
- Distribution Type:
  - Type II
  - Type III
  - Type IV
  - Type V

**Installation/Mounting**

- Four bolt horizontal arm mount with +/- 5° vertical adjustment.
- Mast arm mount is adjustable for arms from 1-5/8" ~ 2-3/8".

**Warranty**

- 5 Year Warranty
- 10 Year Warranty Available.
- See warranty documentation for more information.



5050 LED Package



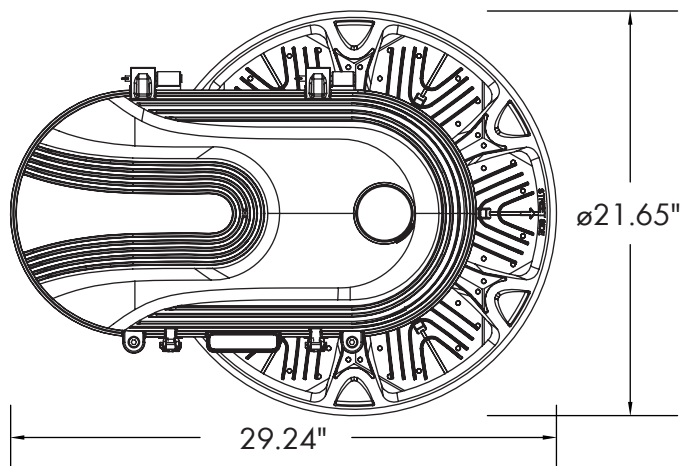
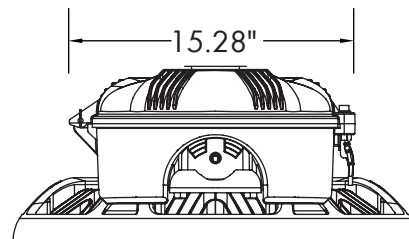
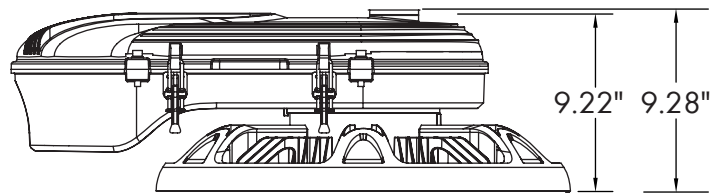
**ORDERING INFORMATION** **EXAMPLE: NEX-210-40-U-D-4**

| Series | Wattage  | CCT                                    | Input Voltage                | Controls Option   | Distribution   | Optic Options                          |
|--------|--|--|------------------------------|---|--|--|
| NEX    | 210 - 210W<br>240 - 240W<br>320 - 320W<br>475 - 475W<br>570 - 570W<br>630 - 630W<br>750 - 750W | 30 - 3000K<br>40 - 4000K<br>50 - 5000K | U - 100-277V<br>H - 277-480V | D - 1-10V Dimming (Standard)<br>D1 - Twist-lock SYNAPSE Wireless Control System<br>P3P - 3 pin Receptacle with On/Off Photocell<br>P5P - 5 pin Receptacle with On/Off Photocell<br>P7P - 7 pin Receptacle with On/Off Photocell<br>P3S - 3 pin Receptacle with Short Cap<br>P5S - 5 pin Receptacle with Short Cap<br>P7S - 7 pin Receptacle with Short Cap<br>DIM4-U - Dimulator 120-277 VAC with 7 pin<br>DIM4-H - Dimulator 480VAC with 7 pin | 2 - Type II<br>3 - Type III<br>4 - Type IV<br>5 - Type V | PC Optic (Standard)<br>G - Glass Optic |

**Accessories**

- NEX-FS (Field Adjustable Lumen Switch)
- NEX-HS90 (External Field Installed 90° Shield)
- NEX-HS120 (External Field Installed 120° Shield)
- NEX-HS180 (External Field Installed 180° Shield)
- NEX-LF (Littelfuse® 2 Fuse)

DIMENSIONS



Weight: 40 lb. [210W~320W]  
Weight: 55 lb. [475W~750W]

LUMEN OUTPUT

| SKU            | Wattage (W) | Delivered Lumens (lm) | Efficacy (lm/W) |
|----------------|-------------|-----------------------|-----------------|
| NEX-210-30-U-D | 210         | 30977                 | 146             |
| NEX-240-30-U-D | 240         | 36978                 | 152             |
| NEX-320-30-U-D | 320         | 49826                 | 155             |
| NEX-475-30-U-D | 475         | 68741                 | 144             |
| NEX-570-30-U-D | 570         | 79800                 | 140             |
| NEX-630-30-U-D | 630         | 96105                 | 146             |
| NEX-750-30-U-D | 750         | 110120                | 144             |

LM79 & LM80 Available upon request\*

Request IES files for B.U.G. Rating\*

ELECTRICAL LOAD

| Wattage (W) | Current (A) |      |      |      |      |      |
|-------------|-------------|------|------|------|------|------|
|             | 120V        | 208V | 240V | 277V | 347V | 480V |
| 210         | 1.84        | 1.06 | 0.92 | 0.80 | 0.64 | 0.46 |
| 240         | 2.10        | 1.21 | 1.05 | 0.91 | 0.73 | 0.53 |
| 320         | 2.80        | 1.62 | 1.40 | 1.21 | 0.97 | 0.70 |
| 475         | 4.16        | 2.40 | 2.08 | 1.08 | 1.44 | 1.04 |
| 570         | 4.99        | 2.88 | 2.49 | 2.16 | 1.72 | 1.25 |
| 630         | 5.51        | 3.18 | 2.76 | 2.39 | 1.91 | 1.38 |
| 750         | 6.56        | 3.79 | 3.28 | 2.84 | 2.27 | 2.86 |

ACCESSORIES



Prismatic PC Lens  
[Standard]



Glass Optic  
[Option]  
[G]



3 Pin, 5 Pin, or 7 Pin  
Receptacle & On/Off  
Photocell  
[P3, P5 or P7]



7 Pin Receptacle &  
Dimulator  
[DIM4-U or DIM4-H]



Twist-lock SYNAPSE  
Wireless Control System  
[TL7-B2 (110-277VAC)]  
[TL7-HVG (110-480VAC)]



Littelfuse®  
(Optional)  
[NEX-LF]

DIMULATOR: STAND-ALONE LED DIMMING PHOTCONTROL



Features

- Factory preset dimming - no selector switch
- 10 Year Warranty
- Compliant with ANSI C136.41 receptacle
- Optional constant all night dimming
- Adaptive lighting control with progressive intensities
- 40kV Surge Protection
- High voltage version available
- Advance time/date algorithm auto-adjusts for daylight savings
- Automatically synchronize to local time

Bat Eye Technology

- Advanced light sensor, only reacts to sunlight
- Immune to LED and other artificial light
- No false activation (no cycling)
- May be oriented in any direction



Patent #9210746

ELL PHOTOCELL: EXTRA LONG LIFE PHOTOCONTROL



Features

- Designed to meet or exceed the life expectancy of LED fixtures.
- 10 Year Warranty
- 40kV Surge Protection
- High voltage version available

Bat Eye Technology

- Advanced light sensor, only reacts to sunlight
- Immune to LED and other artificial light
- No false activation (no cycling)
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WIRELESS CONTROL SYSTEM

POWERED BY

SYNAPSE



Utility grade power monitoring.  
WiFi Mesh Receiver Nodes.  
Communication range is up to 1 mile line of sight.  
Control dimming and On/Off.  
Secure, over-the-air software upgrades.



- Manual/Remote/Web access to Nodes.
- Control up to 1000 Nodes.
- Weather protected.
- Optional, pre-configured 5 button switch to allow for control of all lighting (Central Base Station only).



Central Control Base Station (Optional)

or



SimplySnap Controller



WiFi or LAN Network with browser based control interface



Optional Cloud Control with Verizon 4G LTE