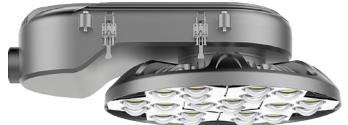


Nexus™ LED High Mast Luminaire



DESCRIPTION

The Nexus™ High Mast by TGS represents the pinnacle of quality and forward-thinking design in large area lighting. Designed for both retrofit and new construction use, Nexus™ provides the flexibility of multiple lumen packages, field-adjustable illuminance settings, integrated control options, and multiple beam options using proprietary PC or glass lenses. Nexus™ is the ideal option for lighting highways, interchanges, ports, rail yards, container yards, parking lots, correctional facilities, security lighting, treatment plants and other facilities.

APPLICATION

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

FEATURES

Construction

Rugged A383 die cast aluminum alloy housing optimized for thermal management through conductive and convection cooling. The housing is powder coated that achieves a scribe creepage of 8 (per ASTM D1654) after 1,000 hours exposure to salt fog chamber (per ASTM B117). Four bolt horizontal arm mount with +/- 5 degree vertical adjustment. 3G vibration rating per ANSI C136. Mast arm mount is adjustable for arms from 1-5/8" to 2-3/8". Two captive bolts disengage top cover for easy access to drivers, surge protection, and terminal blocks. Finish in gray standard.

Optical System

Glare reducing prismatic PC (standard) or glass optics (optional) ensure longevity and minimize dirt depreciation. Zero uplight optics reduce sky glow and meets Dark Sky requirements. Optics provide overlapping pattern on application space eliminating dark spots. Rotatable optic assembly provides alignment of asymmetric distributions to roadway. Available in distribution of Type II, III, IV, V.

Warranty

10 Year Warranty.
See warranty documentation for more information.

Electrical

Input voltage: 100-277VAC/50 & 60Hz
High voltage: 200-480VAC/60Hz (Option)
Quick connectors included, a three stage terminal block is standard for ease of installation and maintenance.

Standard 20kV/10kA surge protection compliant with:
ANSI C136.2-2015 Extreme
IEEE C62.41.2 Location Category C High Exposure

Controls

1-10V Dimming comes standard.
The NEMA 3 pin, 5 pin, or 7 pin twist-lock photocontrol receptacles available.
Photocontrol for solid -state lighting meets ANSI C136.10 criteria.

EPA Rating/Outdoor Rating

EPA (ft²): 1.5 (210W-750W)
Enclosure Rating: IP66 / NEMA 4X



Nexus™

- 210W (29,400 lm)
- 240W (33,600 lm)
- 320W (44,800 lm)
- 475W (66,500 lm)**
- 570W (79,800 lm)
- 630W (85,000 lm)
- 750W (97,500 lm)

Projected L90: 66,000+ hours

Warranty: 5 Years

Efficacy: 130-140 LpW

1-10V Dimming



1-10V Dimming



IP66



5050 LED Package



20kV Surge Protector



200-480V Option



Photocell Option

Ordering Information

EXAMPLE: NEX-630-50-U-D-3

SERIES	Wattage	CCT	Input Voltage	Controls	Distribution	Optic Options
NEX	210 - 210W 240 - 240W 320 - 320W 475 - 475W 570 - 570W 630 - 630W 750 - 750W	50 - 5000K 40 - 4000K 30 - 3000K	U - 100-277VAC H - 200-480VAC	D - 1-10V Dimming (Standard) P3P - 3 pin Receptacle with Photocell P5P - 5 pin Receptacle with Photocell P7P - 7 pin Receptacle with Photocell P3S - 3 pin Receptacle with Short Cap P5S - 5 pin Receptacle with Short Cap P7S - 7 pin Receptacle with Short Cap	2 - Type II 3 - Type III 4 - Type IV 5 - Type V	(Blank) PC Optic (Standard) 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)

Specifications and Dimensions subject to change without notice.

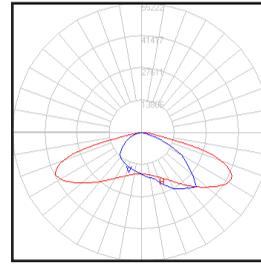
*MOQ and longer lead times may apply, please contact customer service for more information.

Optional accessories sold separately.

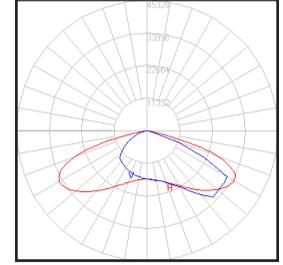
Performance Information

Input Voltage	100-277V, 200-480V (Optional)
Input Frequency	50/60Hz, 60Hz
Wattage	See Performance Table
Delivered Lumens	See Performance Table
Efficacy	See Performance Table
CRI	>70
Available CCT	3000K, 4000K, 5000K
Projected L90	66,000+ hours
Power Factor	>0.95
THD	<20%
Dimming	1-10V Dimming
Operating Temp.	-40°~131°F
IP Rating	IP66

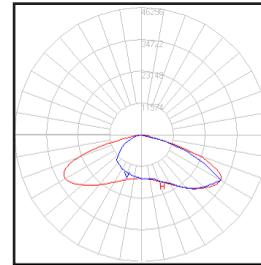
Available IESNA Distribution Type



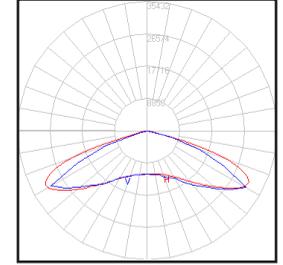
TYPE II



TYPE III



TYPE IV



TYPE V

*IES Available upon request

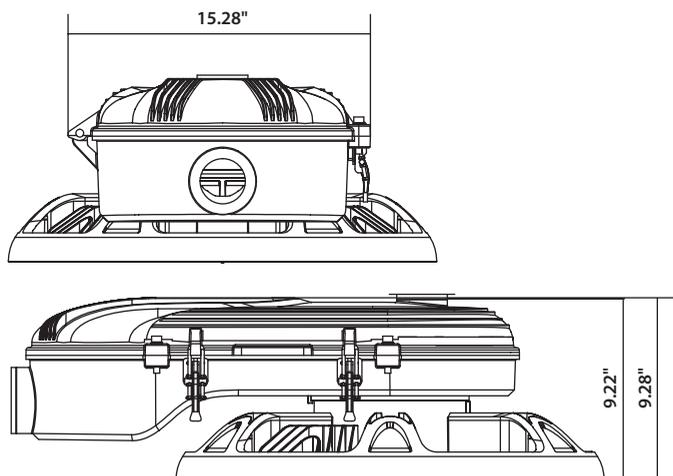
Performance Table

SKU	Wattage (W)	4000K	
		Delivered Lumens (lm)	Efficacy (lm/W)
NEX-210-40-U-D	210	29400	140
NEX-240-40-U-D	240	33600	140
NEX-320-40-U-D	320	44800	140
NEX-475-40-U-D	475	66500	140
NEX-570-40-U-D	570	79800	140
NEX-630-40-U-D	630	85000	135
NEX-750-40-U-D	750	97000	130

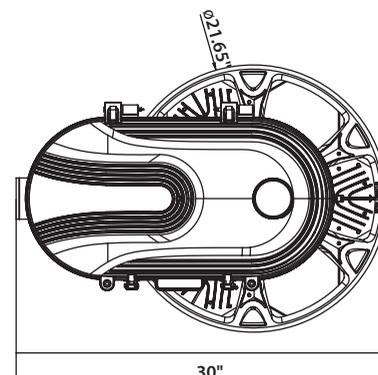
*Refer to BUG rating on page 4

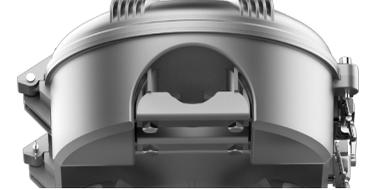
*LM79 & LM80 Available upon request

Product Dimensions



Wattage	L	D	H	Weight (lbs)
210~320	30"	21.65"	9.28"	40
475-750	30"	21.65"	9.28"	55





Luminaire conforms to following standards:

- ANSI C136.2-2015 Extreme.
- IEEE C62.41.2 Location Category C High Exposure
- ANSI C82.77:2002 - Harmonic distortion.
- ANSI C136.31:2001- Luminaire vibration - 3G.
- ASTM B 117:2003 - Salt spray test.
- FCC title 47 CFR Part 15 - Federal Communications Commission.
- IEC 60529:2013 - Degrees of protection provided by enclosure (IP66)
- IEC 61000 - Electromagnetic Compatibility testing (EMC).
- IEEE 519 - Harmonic control in Electrical Power systems.
- UL-1598, 50C, Wet Location

Installation service highlight:

- Horizontal arm mount with +/- 5 degree vertical adjustment.
- Tool-less entry hinge removable door for easy maintenance.
- Quick connectors and a three stage terminal block for ease of installation.
- Rotatable optic assembly provides alignment of asymmetric distributions to roadway.
- Double Littelfuse® block included
- Levels guide included
- Field adjustable switch option available

Accessories



+



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



Littelfuse®
[Optional]