

EES-VN44Q Knight Guard Low Profile Large Surface Mount



Project Information	
Project Name:	Fixture Type:
Complete Catalog #:	Date:
Comments:	

The EnviroLux EES-VN44Q Low Profile Large Surface Mount luminaire With Knight Guard Technology is designed to produce less than 2 percent blue light and to specifically to replace incumbent Low Pressure Sodium light sources and produce higher efficiency than Amber light sources. Typical lighting applications include retail centers, industrial parks, schools and universities, public transit and airports, office buildings and medical facilities. Mounting heights of 12 to 20 feet can be used based on light level and uniformity requirements.

SPECIFICATIONS AND FEATURES:

HOUSING:

Die Cast Aluminum Housing, 1/2" Coin Plugs with O-rings for Conduit & Photocell on Three Sides & Back, Nickel-Plated Stainless Steel Hardware.

LISTING & RATINGS:

ETL: Listed for Wet Locations, ANSI/UL 1598, 8750. IP66 Sealed LED Compartment.

FINISH:

Textured Architectural Bronze Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.

LENS:

SoftLED Low Profile LumaLens Opal UV-Stabilized Polycarbonate Vandal-Resistant Lens

MOUNTING OPTIONS:

Mount Directly Over a 4" Recessed Outlet Box, or Use 1/2" Surface Conduit.

Knight Guard LED:

Aluminum Metal
Core Boards with 2oz Copper Inlay
< 2 percent Blue Light

WATTAGE:

Array: 45.4w, System: 53.7w

DRIVER:

Electronic Driver, 120-277V, 50/60Hz or 347-480V, 50/60Hz; Less Than 20% THD and PF>0.90. Standard Internal Surge Protection 6kV. 0-10V Dimming Standard for a Dimming Range of 100% to 10%; Dimming Source Current is 150 Microamps.

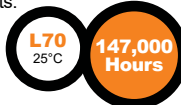
CONTROLS:

Fixtures Ordered with Factory-Installed Photocell or Motion Sensor Controls are Internally Wired for Switching and/or 1-10V Dimming Within the Housing. Remote Direct Wired Interface of 1-10V Dimming is Not Implied and May Not Be Available, Please Consult Factory. Fixtures are Tested with EnviroLux Controls and May Not Function Properly With Controls Supplied By Others. Fixtures are NOT Designed for Use with Line Voltage Dimmers.

WARRANTY:

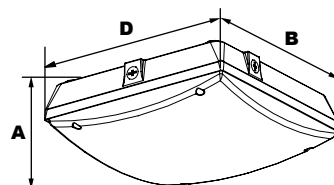
7-Year Warranty for -40°C to +40°C Environment.

See Page 2 for Projected Lumen Maintenance Table.



Dimensions

Width (D)	12 1/2" (315mm)
Length (B)	12 1/2" (315mm)
Height (A)	4 1/4" (106mm)



Knight Guard Technology

Complete Units Ordering Information Example:

EES-VN44QF1X45U-KG-LPZSP

EES-VN44Q Knight Guard Low Profile Large Surface Mount

VN44Q	F	1X45	LP				
Model	Optics	Wattage	Driver	CCT	Lens	Color	Options
EES-VN44Q	F=Type V	1X45=45w	U=120-277V H=347-480V	KG=1800K	LP=SoftLED Low Profile LumaLens Opal UV-Stabilized Polycarbonate Lens	Z=Bronze C=Custom (Consult Factory)	



**KNIGHT
GUARD**
Protecting Your Night Sky from Blue Light

SF=Single Fuse*
DF=Double Fuse*
SP=Surge Protection
PC3=Photocell, 120-277VAC
S2=Microwave Sensor with Dimming for Mounting Heights of 8' to 40'.*
S4=Microwave On/Off Motion Sensor for Mounting Heights of 8' to 19'.*
BU=Battery Backup, 90 Minutes*
BUC=Cold Start Battery Backup, -20°C, 90 Minutes*

*120-277V Models Only.



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ACCESSORIES & REPLACEMENT PARTS:

Replacement Parts (Order Separately, Field Installed)

P18103	120-277VAC Photocell
P17117	Internal Microwave Sensor with Dimming for Mounting Heights of 8 to 40'. 120-277VAC, 50/60Hz
P17123	Internally Mounted Microwave On/Off Motion Sensor for Mounting Heights of 8' to 19', 120-277VAC, 50/60Hz
For Replacement Battery Backup, see the DuraGuard LED Battery Backup Specification Sheet.	



P18103



P17117



P17123

PHOTOMETRIC PERFORMANCE

LED Board Watts	Drive Current (mA)	Input Watts	Optics	5000 CCT 80 CRI					4000 CCT 80 CRI				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
Knight Guard LED 45w	117	45	Type V	6,075	150	2	3	2	6,075	150	2	3	2

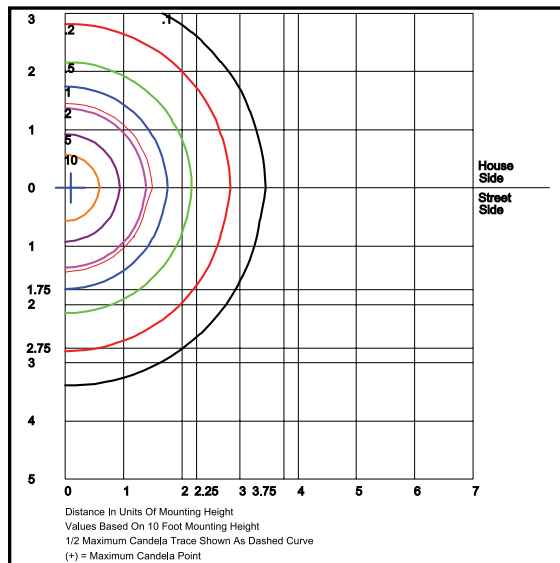
PROJECTED LUMEN MAINTENANCE

Data shown for 5000 CCT			Compare to MH				
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@ 25°C	
L70 Lumen Maintenance @ 25°C / 77°F	45	1.00	0.95	0.90	0.80	147,000	
L70 Lumen Maintenance @ 50°C / 122°F		1.00	0.89	0.78	0.55	67,000	
L80 Lumen Maintenance @ 40°C / 104°F		1.00	0.92	0.85	0.70	66,000	

NOTES:

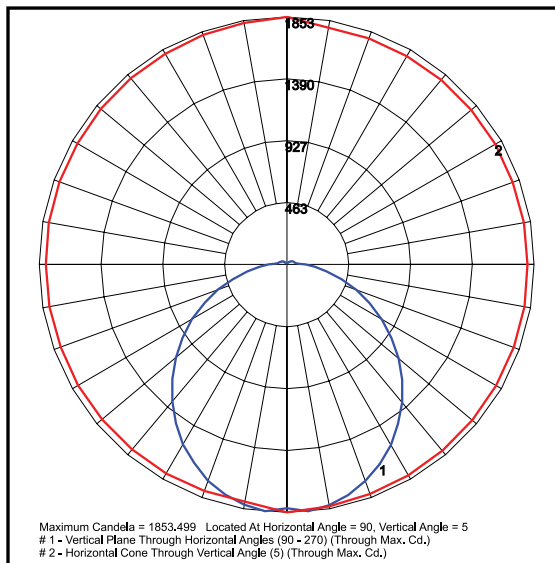
1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 117mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.
2. Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.

PHOTOMETRIC DATA



**EES-VN44QF1X45U-
KG-LP Type V**

Grid in MH
MH=10 Feet



**EES-VN44QF1X45U-
KG-LP Type V**