

Type No. _____
Job Name _____
Catalog No. _____



Shown: S1CWH

NightWatch

Low Level LED Emergency/Security Illumination

Emergency "Normally Off" and Continuous Duty Security

"Normally On" Lighting Applications

Housing

- Premium die cast aluminum components painted in a durable powder coat finish
- Powder coated finishes include white, black and ivory with optional finishes available for custom projects
- Assembled as a one-piece device that includes the LED light engine, integral power supply, three level intensity control and a single gang junction box mounting plate (metallic junction box supplied by others)
- All LED and electrical components are protected by both a polycarbonate lens and high impact power supply case that will be located within the junction box
- Fastened to the mounting junction box via two oval head 6x32x1/2" machine screws (supplied with the product)
- Electrical connection is made via two flying leads
- Wiring from remote emergency power or remote "normally on" power supplies should follow National Electrical Code (NEC) recommendations for wiring of Class 2 electrical devices and/or remote low voltage emergency lighting fixtures

Illumination

- Normal and emergency illumination is accomplished with long-lasting, high-output, Light Emitting Diodes (LEDs) combined with a solid-state integral driver circuit
- Performs best when mounted 18" A.F.F.
- Utilizing multiple luminaires mounted on 8' centers, NightWatch will meet NFPA required 1 foot-candle average illumination standard
- Incorporates a user selectable, three level intensity control

Installation

- Designed for installation in a single gang metallic or die cast junction box
- Outdoor damp or wet location installation, will require a single gang "FS" style junction box by most local electrical codes
- All units (low voltage and line voltage) are UL wet location listed

Application

- Ideal for commercial, lodging, retail or office locations
- Illumination of stairwells, step landings, wheelchair ramps and exit corridors
- The NightWatch is a Made in the USA product

Electronics

- Low voltage (12 VAC, 12 VDC) and line voltage (120 VAC) models available
- Incorporates dip switches on rear of product allowing three levels of intensity
- Designed with solid state components and is rated for 10 years of continuous "normally on" use

Electrical Specifications

12 VDC - 0.47 Amps
12 VAC - 0.72 Amps
120 VAC - 0.09 Amps

Code Compliance

- UL 1598 Listed
- UL Wet Location Listed Standard
- NFPA 101, NEC, BOCA, OSHA, and IBC illumination standards
- Meets ADA specifications for wall mounted lighting fixtures

Remote Power Supply

"Normally On"

- Available output from 100W to 500W in 12 VAC
- Power supplies conform to UL 1598 and are rated as Class 2 (120 VAC) Distribution Systems
- All power supplies are furnished in a UL type 3R enclosure and are provided with thermal type secondary circuit protection (See PS100-500 Series Page 2)

"Normally Off/Emergency"

- Provided by any LightGuard 12V emergency lighting product with additional remote capacity (suggested for use with LightGuard Catalog No. LPM50 or LPM75)

"Normally On/Emergency"

- Provided by the LightGuard StarPower emergency power system
- The StarPower system will support up to 17 NightWatch luminaires operating both continuous duty and emergency operation for 90 minutes (suggested for use with LightGuard Catalog No. L96000)

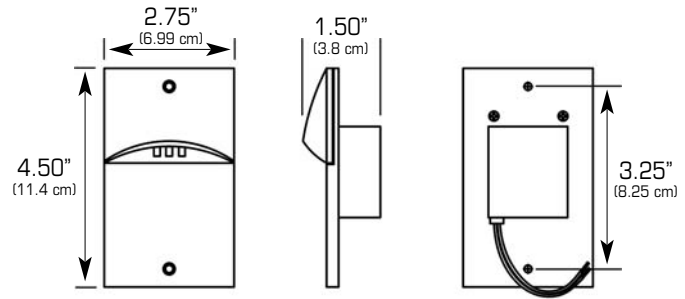
Warranty

Electronics: 5 years full

Ordering Information

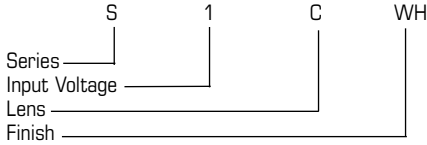
S		C	
SERIES	INPUT VOLTAGE	LENS	FINISH
S = NightWatch	1 = 12 AC, DC 2 = 120 VAC	C = Clear	WH = White BK = Black IV = Ivory

Dimensions



DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE

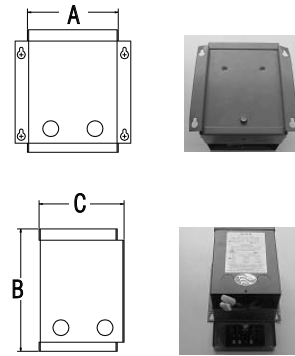
Ordering Example



PS Series "Normally On" Non-Emergency Power Supply Selection

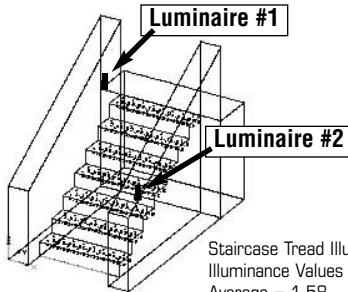
- 12 VAC applications
- 120 VAC Input Versions rated as Class II Distribution Systems
- UL 3R Enclosures
- Thermal secondary output circuit protection
- Convenient bottom access wiring compartment with terminal lugs

No. of NightWatch Luminaires	Input Voltage	Output Wattage	Catalog Number	Dimensions		
				A	B	C
10	120	100	PS100-12-1	4.88"	6.75"	4.63"
15	120	150	PS150-12-1	4.88"	6.75"	4.63"
25	120	250	PS250-12-1	4.88"	6.75"	4.63"
30	120	300	PS300-12-1	4.88"	6.75"	4.63"
30	277	300	PS300-12-2	4.88"	6.75"	4.63"
50	120	500	PS500-12-1	5.63"	8.25"	5.25"
50	277	500	PS500-12-2	5.63"	8.25"	5.25"



Stairway Typical

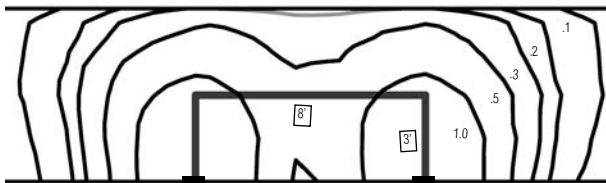
24" AFF



Staircase Tread Illumination
Illuminance Values (Fc)
Average = 1.58
Maximum = 3.20
Minimum = 0.50
Avg/Min Ratio = 3.16
Max/Min Ratio = 6.40

Multiple Luminaires

18" AFF



Luminaire #1

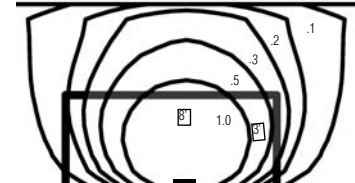
8' x 4' Path
Illuminance Values (Fc)
Average = 1.04
Maximum = 3.10
Minimum = 0.30
Avg/Min Ratio = 3.47
Max/Min Ratio = 10.33

Luminaire #2

8' x 3' Path (Shown Above)
18" (1.5') Mounting Height
Illuminance Values (Fc)
Average = 1.07
Maximum = 1.8
Minimum = 0.50
Avg/Min Ratio = 2.14
Max/Min Ratio = 3.60

Single Luminaire

18" AFF



3' x 6' Area
Calc Rep. of Entrance Area
Illuminance Values (Fc)
Average = 1.38
Maximum = 4.70
Minimum = 0.30
Avg/Min Ratio = 4.6
Max/Min Ratio = 15.67

Suggested Specification

Furnish and install LightGuard's NightWatch, white LED, path of egress marking system model _____. The light shall be manufactured to Underwriter Laboratories, Inc standard 1598 and the National Electrical Code (NEC) standards.

INSTALLATION AND OPERATION - The NightWatch shall be easily field connected to utility or supply power depending on the intended application:

- 12VAC, 60 hertz input via a LightGuard PS Series power supply for non-emergency, normally on applications. Furnish and install PS Series model _____ to operate the NightWatch.
- 12VDC input via a LightGuard emergency battery unit with the applicable DC voltage and wattage capabilities for normally off, emergency operations. Furnish and install LightGuard Model _____ to operate the NightWatch.
- 120 VAC, 60 hertz input via utility line voltage for normally on applications.

The NightWatch shall be capable of mounting directly to a standard, single-gang, rectangular style metal junction box. The illumination of the fixture shall be generated by an array of three high-intensity, long-life white LED's. Light intensity shall be field selectable via a dip switch to accommodate low, medium and high light output modes. The NightWatch shall be rated for 10 years continuous duty operation in the high output mode in a normally on application.

ENCLOSURE - The NightWatch shall be constructed of durable die cast components with a powder coated finish in white, black or ivory. The fixtures will carry a full five-year warranty.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



272 West Stag Park Service Road • Burgaw, NC 28425
(910) 259-1131 • FAX (800) 403-6927
www.lightguard.com

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