

**LED WATTAGE CHART**

	<b>20L</b>	<b>28L</b>	<b>40L</b>	<b>60L</b>
<b>530 milliamps</b>	33w	47w	65w	95w
<b>700 milliamps</b>	44w	60w	83w	125w
<b>1050 milliamps</b>	67w	93w	132w	-

The Guardian Surface Mount Luminaire blends energy efficiency with security and style and is the perfect choice for any Parking Structure, Canopy, or Ceiling Mount application. The Guardian is available in various wattages.

The Guardian is available in our patent pending Star Power optical system and is available in a choice of 2700, 3000, 3500, 400, and 5000 Kelvin temperatures. Rapid mounting system for quick installation is built into the design.

Guardian is available in both asymmetric and symmetrical distributions designed specifically for the parking structure, canopy, and petroleum market place.

The Guardian is also available with polycarbonate lens (PL) and an acrylic linear (AL) matching diffuser to increase vertical foot candles and soften light output; standard is clear lens.

**BUY AMERICAN**

To ensure the latest BAA/TAA/BABA Standards are being met, please select BAA, TAA, or BABA in the options section. Please contact the factory before placing an order for any NLS products requesting BAA (Buy American Act), TAA (Trade Agreement Act), or BABA (Build America, Buy America).



**STAR POWER™ OPTICAL SYSTEM**

The Star Power™ reflector is an excellent system which provides great value and performance. Star Power Patent number: 10168023

Project Name:

Type:

# GRD ORDERING GUIDE

Cat#	Light Dist.	No. of LEDs	Milliamps	Kelvin Temp	Volts
Guarden <b>(GRD)</b>	Type 2 <b>(T2)</b>	20 <b>(20L)</b>	530 <b>(53)</b>	Amber 585-600nm <b>(AMBER)</b> ①②⑦	120-277 <b>(UNV)</b>
	Type 5 <b>(T5)</b>	28 <b>(28L)</b>	700 <b>(7)</b>	2700K, 70 CRI <b>(27K7)</b>	347-480 <b>(HV)</b>
		40 <b>(40L)</b>	1050 <b>(1)</b>	2700K, 80 CRI <b>(27K8)</b> ①	
		60 <b>(60L)</b>		3000K, 70 CRI <b>(30K7)</b>	
				3000K, 80 CRI <b>(30K8)</b> ①	
				3500K, 80 CRI <b>(35K8)</b> ①	
				4000K, 70 CRI <b>(40K7)</b>	
				4000K, 80 CRI <b>(40K8)</b> ①	
				5000K, 70 CRI <b>(50K7)</b>	
				5000K, 80 CRI <b>(50K8)</b> ①	

Mounting	Color	Control Options	Options	Lens Options
Ceiling Mount <b>(CM)</b>	Bronze Textured <b>(BRZ)</b>	Motion Sensor <b>(MS)</b>	Marine Grade Finish <b>(MGF)</b>	Acrylic Lens <b>(AL)</b>
Pendant Mount 12" length <b>(PM12)</b>	White Textured <b>(WHT)</b>	FSP-221B-D with Motion Sensor <b>(FSP-8)</b> ② 8'+ Below <b>(FSP-20)</b> ② 9'-20' Heights	Emergency Battery Back-Up 8w <b>(EM8)</b>	Polycarbonate Lens <b>(PL)</b>
Pendant Mount 24" length <b>(PM24)</b>	Smooth White Gloss <b>(SWT)</b>		Dual Circuit <b>(DC)</b>	
Pendant Mount Custom length <b>(PMX)</b>	Silver Metallic <b>(SVR)</b>		Buy American <b>(BAA)</b> ⑤	
	Black Textured <b>(BLK)</b>		Trade Agreement Act <b>(TAA)</b> ⑤	
	Smooth Black Gloss <b>(SBK)</b>		Build America Buy American <b>(BABA)</b> ⑤	
	Graphite Textured <b>(GPH)</b>		Custom Controls Integration <b>(CCI)</b> ⑤	
	Grey Textured <b>(GRY)</b>			
	Green Textured <b>(GRN)</b>			
	Hunter Green Textured <b>(HGN)</b>			
	Custom <b>(CS)</b>			

**Notes:**

- ① Consult Factory for Lead Time. Consult Factory for 90 CRI Requests
- ② Universal Voltage 120-277
- ③ Please contact Factory for Custom Control Integration requests (nLight, NX, WaveLinx, Crestron, DMX/RDM, Synapse, Casambi, Dali II, Avi-On, or other control systems)
- ④ Turtle Safe
- ⑤ Consult factory for all BAA/TAA/BABA requests
- ⑥ Consult Factory for Lead Time
- ⑦ Not Available above 1000mA



701 Kingshill Place, Carson, CA 90746  
Call Us Today (310) 341-2037

nslighting.com

# PRODUCT SPECIFICATIONS

## ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver
- Driver power factor at maximum load is  $\geq .95$ , THD maximum load is 15%
- LED Drivers Ambient Temp. Min is  $-40^{\circ}\text{C}$  and Ambient Temp. Max ranges from  $50^{\circ}\text{C}$  to  $55^{\circ}\text{C}$  and, in some cases, even higher. Consult the factory for revalidation by providing the fixture catalog string before quoting and specifying it.
- All internal wiring UL certified for 600 VAC and  $105^{\circ}\text{C}$
- CRI 70, 80 or 90
- Color temperatures: 2700, 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KA supplied as standard

## CONSTRUCTION

- Cast Aluminum. Tempered Glass Lens.

## OPTIONS

- MARINE GRADE FINISH (MGF) - A multi-step process creating protective finishing coat against harsh environments. Chemically washed in a 5 stage cleaning system. Pre-baked, Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- POLYCARBONATE LENS
- ACRYLIC LINEAR LENS

## EMERGENCY BATTERY BACK-UP (EB)

- 100-277 VAC $\pm$  10%, 50/60 Hz Input Voltage
- 43mA Max. Input Current
- 2.82W Max. Input Power
- 24-48 Hours Recharge Time
- Battery Type NiCd 9.6VDC or LiFePO4 9.6VDC
- 90 Minutes Min. Illumination Time
- 20W Total Max. LED Powered
- Class 2 Output Classification

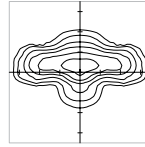
## CONTROL OPTIONS

- FSP-221B-D (FSP-X)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
  - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
  - FSP-8 mounting heights 8 feet and under
  - FSP-20 mounting heights 9-20 feet
  - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.
  - FSIR-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.
- DUAL CIRCUIT (DC)
- Controls Agnostic: Please contact factory for your preferred controls option. (nLight, NX, WaveLinx, Crestron, DMX/RDM, Synapse, Casambi, DALI II, Avi-On, or other control systems)

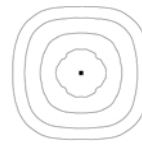
## OPTICS

Recessed Star Power Optical System is 95% reflective material. Utilizes a linear diffused pattern, softening the light distribution and eliminating any dark shadows or striations.

- IES Types



TYPE II (T2)



TYPE V (T5)

## FINISH

- 3-5 mils electrostatic powder coat.
- NLS Lighting standard high-quality finishes prevent corrosion and protects against extreme environmental conditions

## WARRANTY

Five-year limited warranty for drivers and LEDs.

## LISTINGS

- UL Listed

## BUY AMERICAN OPTION

While all of the NLS Lighting products listed in this document qualify for the Buy America(n) Act of 1933, we reserve the right to change our listings without notice.

The information provided above is for general informational purposes only. We encourage you to consult legal professionals for advice particular to your projects concerning BAA, TAA, BABA or Buy America.

Additional NLS Products that meet BAA, TAA standards can be found at the following link:

<https://nlsighting.com/buy-american/>



The information and specifications on this document are subject to change without any notification. All values are design, nominal, or typical or prorated values when measured under internal and external laboratory conditions.



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# PRODUCT SPECIFICATIONS

## GUARDIAN - LUMEN DATA CHART

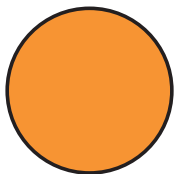
PART NUMBER	Lumens	(Lm/W)	Watts
GRD-1-T5-20L-53-40K7	4032	122	33
GRD-1-T5-20L-53-50K7	4230	128	33
GRD-1-T5-20L-7-40K7	4902	111	44
GRD-1-T5-20L-7-50K7	5113	116	44
GRD-1-T5-20L-1-40K7	6499	97	67
GRD-1-T5-20L-1-50K7	6566	98	67
GRD-1-T5-28L-53-40K7	4291	92	47
GRD-1-T5-28L-53-50K7	5714	127	47
GRD-1-T5-28L-7-40K7	6613	110	60
GRD-1-T5-28L-7-50K7	6900	115	60
GRD-1-T5-28L-1-40K7	9021	97	93
GRD-1-T5-28L-1-50K7	9114	98	93
GRD-1-T5-40L-53-40K7	7787	120	65
GRD-1-T5-40L-53-50K7	8176	126	65
GRD-1-T5-40L-7-40K7	9048	109	83
GRD-1-T5-40L-7-50K7	9446	114	83
GRD-1-T5-40L-1-40K7	12804	97	132
GRD-1-T5-40L-1-50K7	12936	98	132
GRD-1-T5-60L-53-40K7	11267	119	95
GRD-1-T5-60L-53-50K7	11836	125	95
GRD-1-T5-60L-7-40K7	13478	108	125
GRD-1-T5-60L-7-50K7	14077	113	125

## LUMEN MAINTENANCE DATA

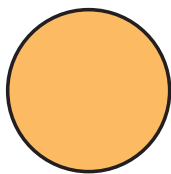
Ambient Temperature	Drive Current	L90 Hours*	L70 Hours**	30,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours**
25°C	Up to 700mA	58,000	173,000	95.7%	91.6%	89.6%	82.1%
	1050mA	38,000	96,000	93.0%	85.4%	81.8%	68.8%

\*Reported extrapolations per IESNA TM-21      \*\*Projected extrapolations per IESNA TM-21

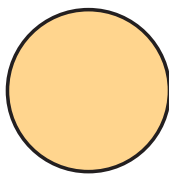
## LED KELVIN RANGE



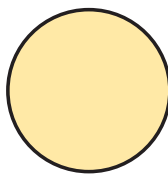
AMBER  
585-600 nm



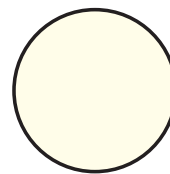
2700K 70 CRI



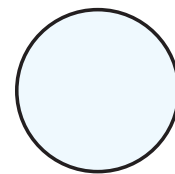
3000K 70 CRI



3500K 80 CRI



4000K 70 CRI



5000K 70 CRI

Color	Dominant or Peak Wavelength Range (nm)	
	Minimum	Maximum
Amber	585	600

# PRODUCT SPECIFICATIONS

