



## Genesis Gen2 Large Low Voltage LED Landscape Bullet

Catalog Number	
Project	Type

Patent: D0648056



Fixture shown with  
SGL2DN60 Down Shield

### FEATURES & SPECIFICATIONS

**APPLICATION** — The Genesis Gen2 line of LED Landscape Bullets are the most versatile LED fixtures on the market today. Various beam spreads and wattages allow for a customized finish to any property. The high end residential grade system was designed for low voltage operation residential applications

**CONSTRUCTION** — The die cast aluminum heat sink has 24 heat dissipating fins to maintain a cool operating LED for maximum life. The fins are independently supported to allow for unobstructed airflow. The fixture is designed to efficiently perform in any mounting orientation.

**FINISH** — A cathodic epoxy electrocoat primer or E-Coat is applied to all die cast aluminum components. E-coating provides the ultimate in corrosion and chemical resistance, providing superior salt spray, humidity and cyclic corrosion endurance. After the E-Coat is applied a super durable polyester powder coat finish is electrostatically applied in our state of the art paint facility. Standard colors available: Black, Bronze, OD Green, White. Custom colors available upon request.

**OPTICAL SYSTEM** — Techlight's proprietary OpticapSystem™ utilizes factory installed optical lenses & reflectors to increase fixture lumen output efficiency. The system is provided with a high performance convex lenticular prismatic flood or a plano-convex spot optical lens. The flood & spot optical lenses are molded from low iron tempered glass. A 96% reflective UV stabilized injection molded reflector is included with each system. The OpticapSystem shields are designed for optimum glare control in up or downlighting positions. A variety of glass color filters are available to meet the designers specific color control needs.

**ELECTRICAL SYSTEM** — NOTE: A Techlight Surge Protector must be incorporated into the LED system at the beginning of each circuit as a minimum. Failure to do so will void the system warranty. Fixture operates at 9-16VAC or 9-24VDC input voltage. A 36 or 56 watt LED source provides approximately 1831 to 2988 (CW) Lumens of light.

SERIES	HOUSING HEIGHT	LENGTH & WIDTH
<b>GL2</b>	4.8"	7" x 4.3"

**MOUNTING** — The die cast aluminum mount is secured to the heat sink by stainless steel screws and is sealed with an integral o-ring. A 1/2" threaded knuckle is provided standard.

**LISTINGS** — ETL listed for wet locations (IP67). Meets US and Canadian safety standards. -40°C to 40°C ambient operation.

**WARRANTY** — Techlight warrants the LED lighting Product(s) to be free from defects in material and workmanship for a period of three years for LED Light Engines and LED Power Components, from the date of shipment. Ground mounted products that are provided standard with our proprietary E-Coat pretreatment prior to the application of a powdercoat finish will carry a full 10 year finish warranty. Proper maintenance is required for full finish warranty.

### ORDERING INFORMATION

Choose the bold face options for the appropriate luminaire configuration for your application and enter on the line above each fixture attribute. Accessories may be factory installed, depending on the particular accessory chosen, but still be ordered as a separate line item.

EXAMPLE:

**GL2 FL 36 NW LV ODG**

GL2					
SERIES	DISTRIBUTION	WATTAGE	COLOR TEMP	VOLTAGE	FINISH
	<b>FL</b> = Flood (72°) <b>SP</b> = Spot (20°)	<b>36</b> = 36W <b>56</b> = 56W	<b>CW</b> = Cool White (5900K) <b>NW</b> = Neutral White (4000K) <b>WW</b> = Warm White (3000K) <b>CRI &gt;80</b>	<b>LV</b> = 9-16VAC = 9-24VDC	<b>BZ</b> = Bronze <b>BK</b> = Black <b>ODG</b> = OD Green <b>WH</b> = White <b>SP</b> = Special

### ACCESSORIES

(Order as separate line items)

- SGL2DN60** Downlight Shield
- SGL2UP30** Uplight Shield
- SGL2TUBE** Tube Shield
- 102552<sup>2</sup>** 120-277V 10kV Surge Protector
- B01GL** Tree Base with Ground Lug
- B02** 1/2" Conduit Base
- B03** 4" Round 3 Hole Cover
- SMSB** 12" x 1" Mounting Stake (Brass)
- MMSB** 18" x 1" Mounting Stake (Brass)
- LMSB** 20" x 2.5" Mounting Stake (Brass)
- LMS** 20" x 2.5" Mounting Stake (SCH 40 PVC)
- LMSZ-BK** 20" x 2.5" Mounting Stake (Zinc Top Painted Black)
- LEDLFG120LENS** Green Glass Lens Filter (each)
- LEDLB120LENS** Blue Glass Lens Filter (each)
- TLHB800RCH** Digital Timer

### ACCESSORIES

(Order as separate line items)

- PW122LV** 12-2 Low Voltage Wire
- PW102LV** 10-2 Low Voltage Wire
- P20000PC-LVENC** Photocell (DC Transformer Operation Only)
- PCCORD-6** 6' Photocell Extension Cord
- PCCORD-8** 8' Photocell Extension Cord
- PSJ163** 16 Gauge 3 Strand Lead Wire
- TLTN11** Mechanical Timer
- B16-12** Palm Tree Base with 12' Strap
- TLSBBJB** Brass Junction Box

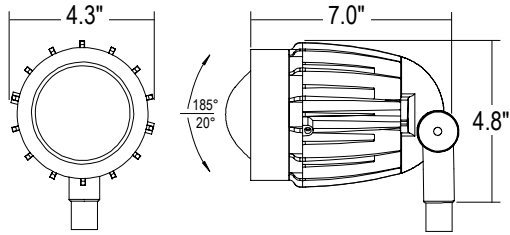
### NOTES

- 1 = Custom RAL color matching is available. Contact your sales representative for additional info.
- 2 = A Techlight Surge Protector must be incorporated into the LED system at the beginning of each circuit as a minimum. Failure to do so will void the system warranty.



## AVAILABLE FIXTURE DIMENSIONS

Dimensions shown are for fixture bodies only. Mounting options must be ordered separately.



## MOUNTING ACCESSORIES

<b>B01GL</b> Tree Base with Ground Lug 	<b>B02</b> 1/2" Conduit Base 	<b>B03</b> 4" Round 3 Hole Cover 	<b>GEPTBZ</b> Low Profile Tree Base 
<b>B16-12</b> Palm Tree Base with 12' Strap 	<b>TLSBBJB</b> Brass Junction Box 	<b>SMSB, MMSB</b> 12" x 1" Mounting Stake (Brass) 18" x 1" Mounting Stake (Brass)  <b>LMSB, LMS, LMSZ-BK</b> 20" x 2.5" Mounting Stake (Brass) 20" x 2.5" Mounting Stake (SCH 40 PVC) 20" x 2.5" Mounting Stake (Zinc Top Painted Black) 	

## ADDITIONAL FIXTURE OPTIONS & ACCESSORIES

**\* OPTION \***  
**GL2CAPCVXFLDREFL (Factory Installed)**  
72° Flood OpticapSystem™  
Field Installable Flood Optic



**\* OPTION \***  
**GL2CAPSPOPTREFL (Factory Installed)**  
20° Spot OpticapSystem™  
Field Installable Spot Optic



**102552**  
10kV Surge Protector



**P20000PC-LVENC**  
Photocell (DC Transformer Operation Only)



**PCCORD-6** 6' Photocell Extension Cord  
**PCCORD-8** 8' Photocell Extension Cord



**TLHB800RCH**  
Digital Timer



**PW122LV** 12-2 Low Voltage Wire  
**PW102LV** 10-2 Low Voltage Wire



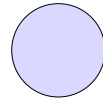
**PSJ163**  
16 Gauge 3 Strand Lead Wire



**LEDLFG120LENS**  
Green Glass Lens Filter (each)



**LEDLB120LENS**  
Blue Glass Lens Filter (each)

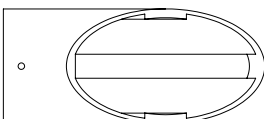
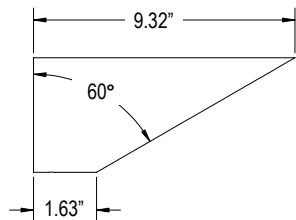


**TLTN11**  
Mechanical Timer

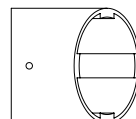
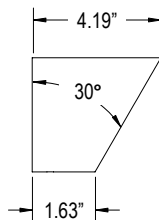


## SHIELDS

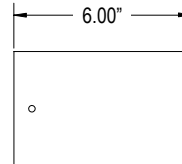
**SGL2DN60**  
Downlight Shield



**SGL2UP30**  
Uplight Shield



**SGL2TUBE**  
Tube Shield



## TRANSFORMERS



**ELV300** 300W AC Low Voltage Enclosure  
**ELV600** 600W AC Low Voltage Enclosure  
**ELV900** 900W AC Low Voltage Enclosure  
**ELV1200** 1200W AC Low Voltage Enclosure

**ELV300 thru ELV1200** are 120VAC-11-15VAC magnetic stepdown transformers. They have 11, 12, 13, 14, 15VAC outputs. The 600W, 900W, & 1200W units have 2ea, 3ea, & 4ea 300W rated output circuits respectively. They are enclosed in a aluminum NEMA raintight enclosure polyester powder coated BK finish.



**ELV300MV24DCSS**  
 300W DC Transformer in a Stainless Steel Enclosure

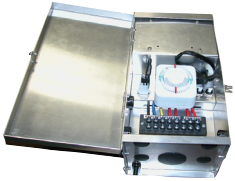
Output Voltage	Input Voltage Range	Output Current Range	Max. Output Power	Typical Efficiency (1)	Power Factor	
					110Vac	220Vac
24 Vdc	90 ~ 305 Vac	0 ~ 12.5 A	300W	91%	.99	.96



**ELV500MV24DCSS**  
 500W DC Transformer in a Stainless Steel Enclosure

Output Voltage	Input Voltage Range	Output Current Range	Max. Output Power	Typical Efficiency (1)	Power Factor	
					110Vac	220Vac
24 Vdc	175 ~ 305 Vac	0 ~ 20.83 A	500 W	94%	.99	.96

The **ELV150MV24DCSS** thru **ELV500MV24DCSS** are 120-277VAC – 24VDC electronic power supplies. They are equipped with surge protection, and are enclosed in a stainless steel NEMA raintight enclosure with natural finish. The data listed for these power supplies is correct. Just need to add the 150W version.



**LVSS300** 300W SS AC Low Voltage Enclosure  
**LVSS600** 600W SS AC Low Voltage Enclosure  
**LVSS900** 900W SS AC Low Voltage Enclosure  
**LVSS1200** 1200W SS AC Low Voltage Enclosure

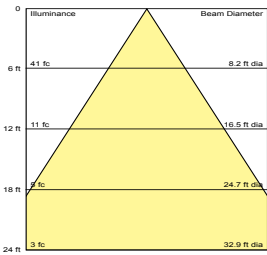
**LVSS300 THRU LVSS1200** are 120VAC-11-15VAC magnetic stepdown transformers. They have 11, 12, 13, 14, 15VAC outputs. The 600W, 900W, & 1200W units have 2ea, 3ea, & 4ea 300W rated output circuits respectively. They are enclosed in a stainless steel NEMA raintight enclosure, with natural finish.

## PERFORMANCE

### ILLUMINANCE CONE DIAGRAMS

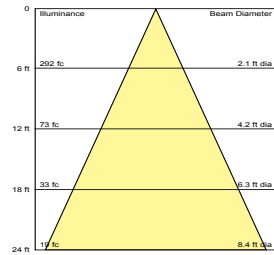
#### GL2FL36CWLV

**Flood Optic**  
 36W GL2 LED Bullet  
 Color Temperature: 5,900 K



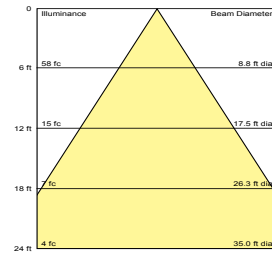
#### GL2SP36CWLV

**Spot Optic**  
 36W GL2 LED Bullet  
 Color Temperature: 5,900 K



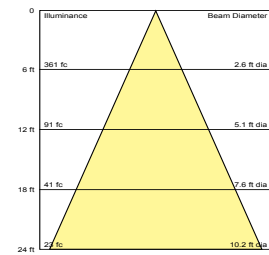
#### GL2FL56CWLV

**Flood Optic**  
 56W GL2 LED Bullet  
 Color Temperature: 5,900 K



#### GL2SP56CWLV

**Spot Optic**  
 56W GL2 LED Bullet  
 Color Temperature: 5,900 K



\*Lumen output less any shielding

Fixture	Color Temp	36W Lumen Output		56W Lumen Output	
		FL	SP	FL	SP
GL2	CW (5900K)	1831	1716	2988	2873
	NW (4000K)	1658	1554	2752	2646
	WW (3000K)	1617	1515	2638	2537

**WARNING:** Maintenance performed including the replacement of LED bricks while power is still supplied to the luminaire may result in system failures and will void the warranty.



**TECHLIGHT**  
 INNOVATION IN ILLUMINATION