

Product name Spark White LED

Product code CL-003-SW001

#### INTRODUCTION

The ShowLED Classic is a truly dynamic star backdrop.

It will certainly surprise you and your audience because an artificial starry sky never looked so realistic before. The LEDs are randomly placed in a black Molton PES fabric forming constellations and the star fields.

Classic components can also be integrated into many other fabrics or surfaces. With 8 output channels, the dedicated controller is DMX compatible and offers two DMX modes; control of preset chases including minimum and maximum intensity, chase speed, and pattern behavior; or full dimmer control of each individual output channel.

ShowLED Classic has stand-alone features and is truly plug and play. The controller can be programmed manually with the option of saving the settings directly to the controller. When linked together several connected drapes can be controlled simultaneously and if required fully synchronised.



# PRODUCT SPECIFIC PROPERTIES

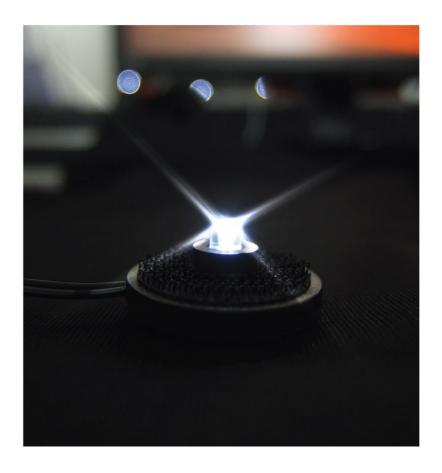
COLOR RANK	: 8600 K			
LED	: STANDARD 4.8mm DIAMETER PACKAGE			
RoHS COMPLIANT				
GENERAL PURPOSE LEADS				

## ABSOLUTE MAXIMUM RATINGS AT Ta=25°C

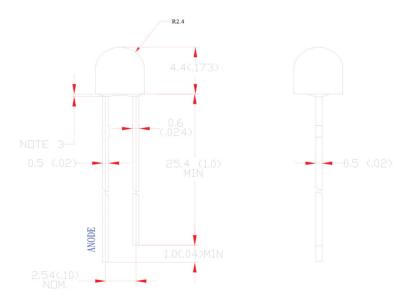
PARAMETER	MAX.	UNIT	
POWER DISSIPATION	80	mW	
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1MS PULSE WIDTH)	100	mA	
CONTINUOUS FORWARD CURRENT	20	mA	
DERATING LINEAR FROM 50°C	0.4	mA/ºC	
REVERSE VOLTAGE	5	V	
ELECTROSTATIC DISCHARGE (ESD)	1000	V	
OPERATING TEMPERATURE RANGE	-20°C TO +80°C		
STORAGE TEMPERATURE RANGE	-30°C TO +100°C		
LEAD SOLDERING TEMPERATURE [4MM(.157") FROM BODY]	260°C FOR 5 SECONDS		

#### ELECTRICAL OPTICAL CHARACTERISTICS AT Ta=25°C

Parameter	Sy	mbol	Min. 1	ур. Ма	ax. Ur	iit	Test Cond	lition	
Luminous Intens	uminous Intensity   <sub>V</sub>		1500 3	800 mcd		cd   <sub>F</sub> =	I <sub>F</sub> =20mA (Note 1)		
Viewing Angle	:	201/2		90	De	g	(Note 2	)	
Forward Voltage		V <sub>F</sub>	2.8	3.4 3	.8 \	/	I <sub>F</sub> =20mA		
Reverse Current		I <sub>R</sub>			50 <sub>F</sub>	Α	V <sub>R</sub> =5V		
Color Rank	х	у	×	у	х	у	×	У	
BINA	0.2020	0.1530	0.2206	0.1907	0.2542	0.1924	0.2355	0.1612	
BIN B	0.2206	0.1907	0.2414	0.2307	0.2692	0.2176	0.2542	0.1924	
BIN C	0.2414	0.2307	0.2616	0.2698	0.2843	0.2429	0.2692	0.2176	
BIN D	0.2616	0.2698	0.2816	0.3083	0.2994	0.2684	0.2843	0.2429	
BIN E	0.2816	0.3083	0.3032	0.3361	0.3131	0.2868	0.2994	0.2684	
BIN F	0.3032	0.3361	0.3300	0.3705	0.3300	0.3094	0.3131	0.2868	
BIN G	0.3300	0.3705	0.3622	0.3939	0.3548	0.3425	0.3300	0.3094	







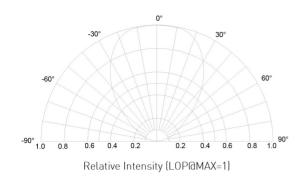
\* PATENT PENDING

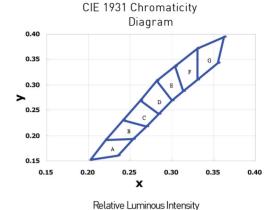


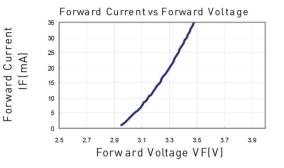


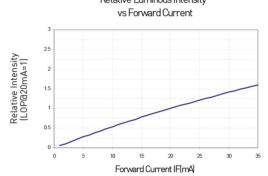
## **BEAM PATTERN**

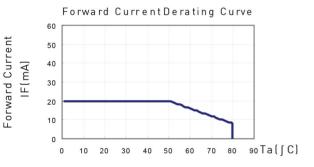
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES ( 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE NOTED)

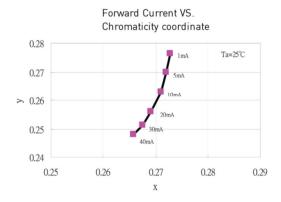






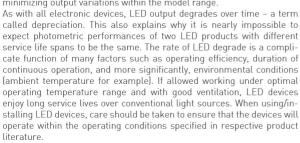


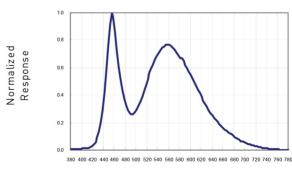




LED CHARACTERISTICS: As LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product, LED manufacturers "sort" LEDs into bins according to different present parameters, such as forward driving voltage, illumination, etc. Whereas binning is a sorting function, it is not a correction process. Inherent variability in the manufacturing process results always in different binning distributions according to different production lots. ShowLED uses automatically binned LEDs on its products, thereby minimizing output variations within the model range.

Spectral Radiance





Wave Length(nm)

© 2014 SHOWLED ALL RIGHTS RESERVED

WWW.SHOWLED.COM

