



L.T.F. High CRI DC LED Board

Linear 571mm
QLUXL572108LED Series

5.8mm edge light application



General Information

Wattage	34W
CRI	90+
CCT	2700K-5000K
Dimension	572x5.8mm
Beam Angle	120°



RoHS



Year Warranty

FEATURES

- High Color Rendering Index (CRI) Ra max. 98
- High efficacy lumen output
- LM-80 compliant LEDs; 4014 size
- Tight Binning 3 Step Mac Adam Ellipses
- Uniform and crisp light source intensity
- Hot spot free design
- Exceed ENERGY STAR lumen maintenance requirements
- Extra thin low profile
- Low heat generation, easy thermal management
- Easy to fit in new design or retrofit applications
- Long operation life

APPLICATIONS

For architectural new designs and edge light solution lighting fixtures LED panel light.

- This 4014 LED Light Source is a high performance energy efficient device which can handle high thermal and high driving current.
- The small package outline and high intensity make it an ideal choice for Edge Lite based luminaire designs which utilize light guides to direct and diffuse light.

GENERAL SPECS.

34W Linear	Wattage	Forward Voltage			Forward Current	
Model Number	Max.	Typ.	Vf Min.	Vf Max.	Typ.	Max.
QLUXL572108LED	34W	17V	16V	18V	1200mA	2100mA

Order Number	CRI	CCT	Lumen
QLUXL572108LED927	90+	2700K	3000
QLUXL572108LED930	90+	3000K	3000
QLUXL572108LED935	90+	3500K	3000
QLUXL572108LED40	90+	4000K	3200
QLUXL572108LED50	90+	5000K	3200

ELECTRICAL SPECIFICATIONS

Absolute Maximum Ratings (Ta=25C, RH30%)			
Parameter	Symbol	Rating	Unit
DC Input Forward Current *	I _{IN}	2.16	mA
Power Dissipation	P _D	34	W
Storage Temperature	T _{stg}	-20°C - 80°C	°C
Temperature of Al MCPCB** Max.	TS	85°C	°C

Electrical & Optical Characteristics (Ta=25C, RH30%)							
Parameter	Symbol	Condition	CCT	Min.	Typ.	Max.	Unit
Forward Voltage*	VF	I _f = 1200 mA	---	16.2	17.1	18	V
Total Flux	ΦV	I _f = 1200 mA	2700K	---	3000	---	lm
			3000K	---	3000	---	
			3500K	---	3000	---	
			4000K	---	3200	---	
			5000K	---	3200	---	
Efficacy	η	I _f = 1200 mA	2700K	---	146	---	lm/W
			3000K	---	146	---	
			3500K	---	146	---	
			4000K	---	155	---	
			5000K	---	155	---	
Color Rendering Index**	CRI	I _f = 1200 mA	---	90	---	---	---
Viewing Angle***	2θ _{1/2}	I _f = 1200 mA	---	---	120	---	degree
Life Time (L ₇₀)	T	65C at T _s	---	---	>50,000	---	hours

* Notes: All measurements were made under the standardized environment of SSC.

** CCT is <90 for +4000K boards

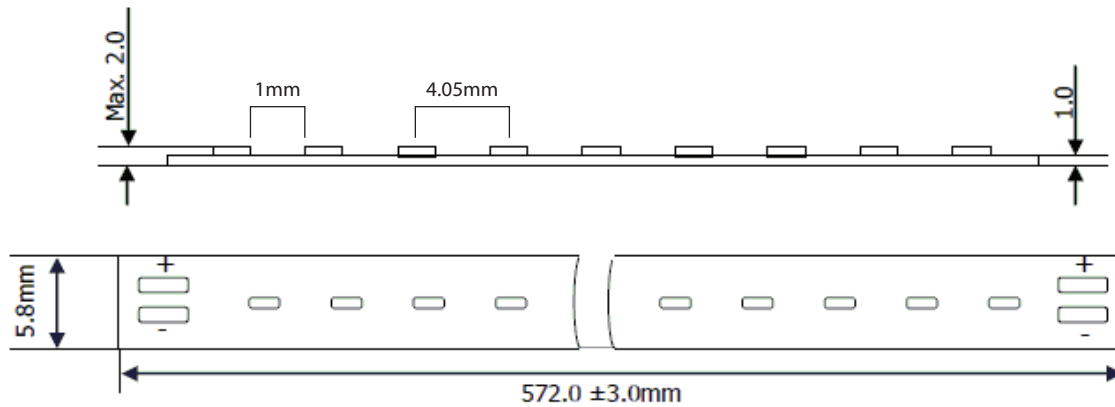
*** 2θ_{1/2} is the off-axis where the luminous intensity is 1/2 of the peak intensity.

**** Thermal resistance: R_{thJS} (junction / solder)

Tolerance: VF :±0.1V, IV :±7%, Ra :±2, x,y :±0.007



MECHANICAL SPECS.



Recommended LED Drivers			
120V	277V	200-240V	Universal
DA20W1200C	DE20W1200C	DU20W1200C	DS20W1200C

Precaution for use:

(1) Storage

To avoid the moisture penetration, we recommend store in a dry box with a desiccant . The recommended storage temperature range is 5C to 50C and a maximum humidity of RH50%.

(2) Use Precaution after Opening the Packaging as separation of the lens may affect the light output efficiency.

Pay attention to the following:

a. Recommend conditions after opening the package

- Sealing

- Temperature : 5 ~ 40° Humidity : less than RH30%

(3) Do not apply mechanical force or excess vibration during the cooling process to normal temperature after soldering.

(4) Radioactive exposure is not considered for the products listed here in.

(5) Gallium arsenide is used in some of the products listed in this publication. These products are dangerous if they are burned or shredded in the process of disposal. It is also dangerous to drink the liquid or inhale the gas generated by such products when chemically disposed of.

(6) This device should not be used in any type of fluid such as water, oil, organic solvent and etc. When washing is required, IPA (Isopropyl Alcohol) should be used.

(7) When the LEDs are in operation the maximum current should be decided after measuring the package temperature.

(8) LEDs must be stored properly to maintain the device. If the LEDs are stored for 3 months or more after being shipped from SSC, a sealed container with a nitrogen atmosphere should be used for storage.

(9) The appearance and specifications of the product may be modified for improvement without notice.

(10) Long time exposure of sunlight or occasional UV exposure will cause lens discoloration.

(11) VOCs (Volatile organic compounds) emitted from materials used in the construction of fixtures can penetrate silicone encapsulants of LEDs and discolor when exposed to heat and photonic energy. The result can be a significant loss of light output from the fixture.

Knowledge of the properties of the materials selected to be used in the construction of fixtures can help prevent these issues.

CAUTION!

- Turn the power off before installing LED to the proper constant current LED driver.
- Avoid short circuit, or drilling / cutting the LED board! It will damage its electrical circuit!