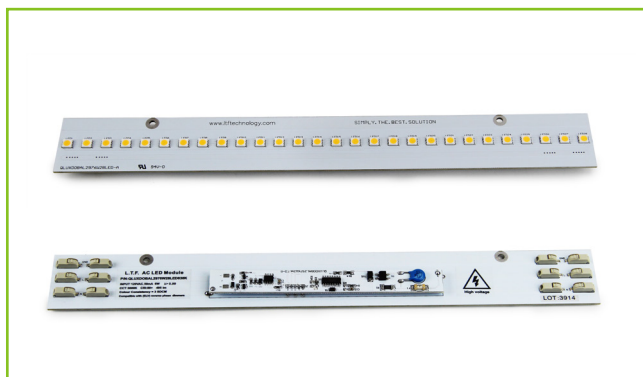




# L.T.F

## AC Line Voltage LED Board

Dimmable Linear 297x36mm  
QLUXDOBAL2976W28LED Series



General Information	
Wattage	6W
CRI	80, 90+
CCT	2400-5000K
Custom CCT	Available
Dimension	297x36mm
Dimming	ELV / Phase
Beam Angle	160

**RoHS**



5  
Year Warranty

### FEATURES

- High Color Rendering Index (CRI) Ra max. 98
- High efficacy lumen output
- LM-80 compliant LEDs
- Tight Binning 3 Step Mac Adam Ellipses
- Uniform & 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
- Meets California Title 24 requirements
- Flicker free dimming with ELV dimmers
- 0-10V dimming option

### APPLICATIONS

For Architectural New Designs and Retrofits lighting fixtures:

- |                      |                    |
|----------------------|--------------------|
| Indoor Lightings:    | Outdoor Lightings: |
| • Recessed can light | • Street light     |
| • Ceiling light      | • Marker lights    |
| • Wall sconces       | • Wall sconces     |
| • Table lamps        | • Signage lights   |
| • Fixtures           |                    |
| • Signage            |                    |

### ELECTRICAL SPECS.

Order Number	CRI	CCT
QLUXDOBAL2976W28LED22K8CR	80+	2200K
QLUXDOBAL2976W28LED25K8CR	80+	2500K
QLUXDOBAL2976W28LED27K8CR	80+	2700K
QLUXDOBAL2976W28LED30K8CR	80+	3000K
QLUXDOBAL2976W28LED32K8CR	80+	3200K
QLUXDOBAL2976W28LED35K8CR	80+	3500K
QLUXDOBAL2976W28LED40K8CR	80+	4000K
QLUXDOBAL2976W28LED50K8CR	80+	5000K

Order Number	CRI	CCT
QLUXDOBAL2976W28LED22K9CR	90+	2200K
QLUXDOBAL2976W28LED25K9CR	90+	2500K
QLUXDOBAL2976W28LED27K9CR	90+	2700K
QLUXDOBAL2976W28LED30K9CR	90+	3000K
QLUXDOBAL2976W28LED32K9CR	90+	3200K
QLUXDOBAL2976W28LED35K9CR	90+	3500K
QLUXDOBAL2976W28LED40K9CR	90+	4000K
QLUXDOBAL2976W28LED50K9CR	90+	5000K



CIE Colorimetric Parameters*							
<b>Chromaticity Coordinates</b>		x=0.4524 y=0.4109					
<b>CCT</b>		2810K					
<b>Peak Wavelength</b>		602.6nm					
<b>Dominant Wavelength</b>		583.4nm					
<b>Rendering Index</b>		79.9					
<b>Color Ratio</b>		R=23.6%, G=75%, B=1.4%					
<b>Half Bandwidth</b>		124.7nm					
<b>Color Purity</b>		59.1%					
R1=77	R2=89	R3=96	R4=75	R5=77	R6=86	R7=82	R8=56
R9=2	R10=74	R11=72	R12=68	R13=79	R14=98	R15=71	

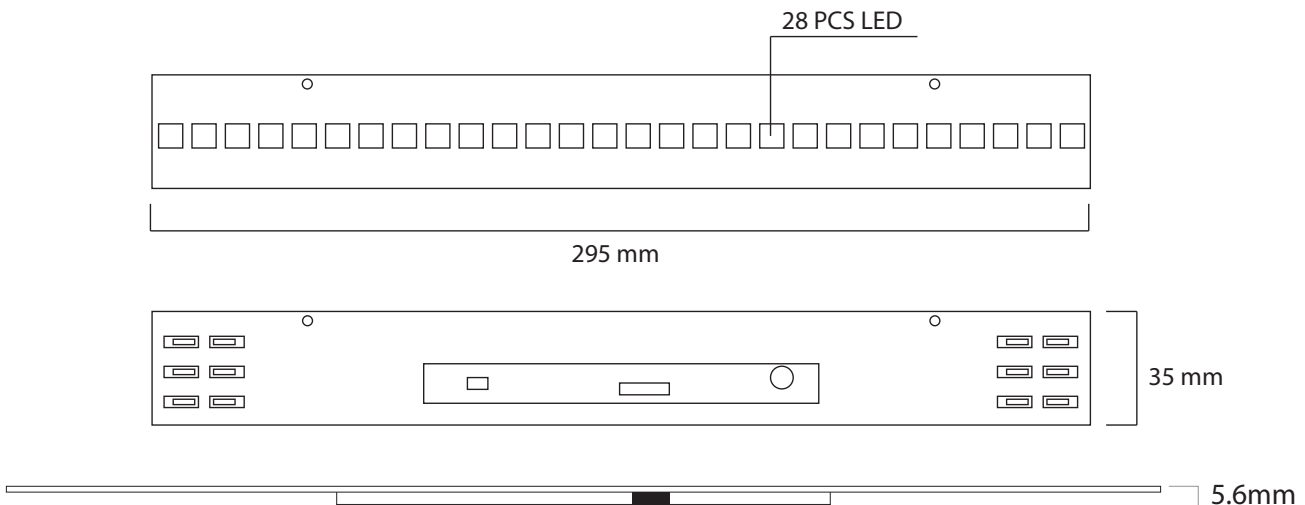
\* Test result shown based on 3000 CCT, 80 CRI model

Photometric Parameters*	
<b>Luminous Flux:</b>	495.15lm
<b>Radiant Power:</b>	1466.8mW
<b>Efficacy:</b>	82.5lm/W

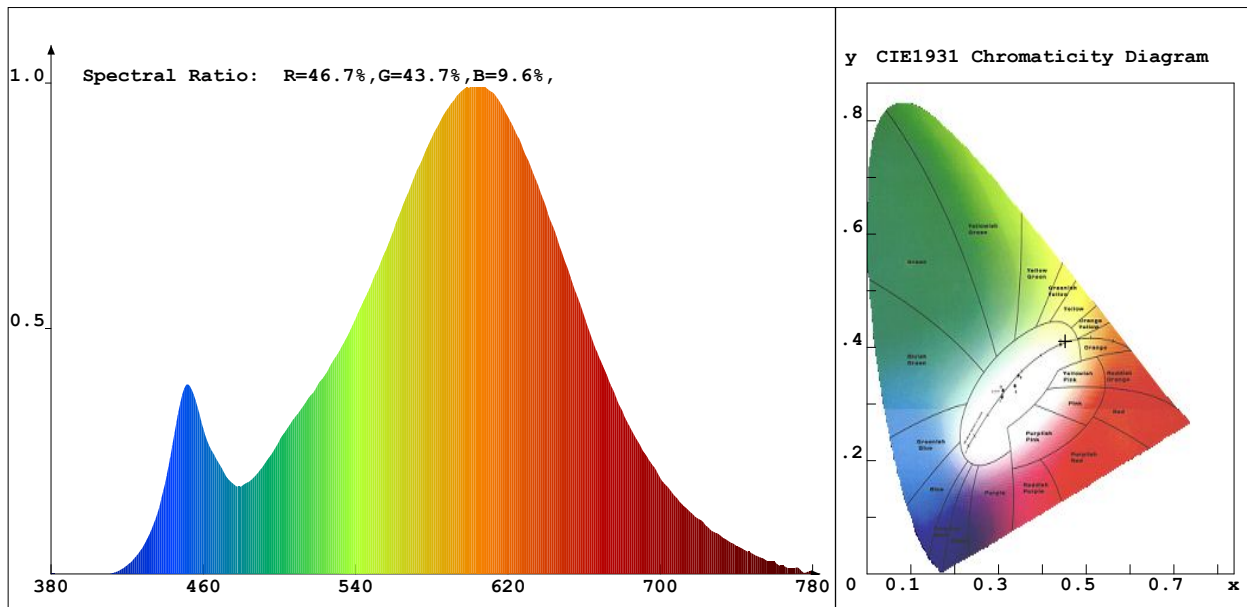
\* Test result shown based on 3000 CCT, 80 CRI model

Electric Parameters	
<b>Voltage</b>	U=120.7V
<b>Current</b>	I=0.05A
<b>Power</b>	P=6W
<b>Power Factor</b>	PF=0.994

MECHANICAL SPECS.



AC Line Voltage LED Boards - QLUXDOBAL2976W28LED



Diagrams shown based on test report for 80 CRI 2700K model.

## 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!