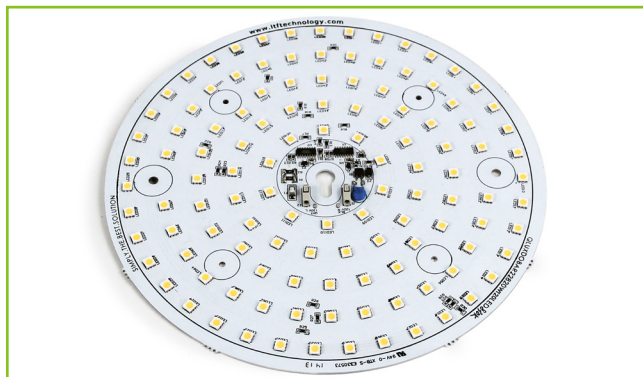




# L.T.F

## AC Line Voltage LED Board

Dimmable Round 228mm (OD)  
QLUXDOBAR22820W120LED Series



General Information	
Wattage	20W
CRI	80, 90+
CCT	2400-5000K
Custom CCT	Available
Dimension	228mm (OD)
Dimming	ELV / Phase
Beam Angle	160

**RoHS**



5  
Year Warranty

### FEATURES

- High Color Renedering 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:

- Recessed can light
- Ceiling light
- Wall sconces
- Table lamps
- Fixtures
- Signage

#### Outdoor Lightings:

- Street light
- Marker lights
- Wall sconces
- Signage lights

### ELECTRICAL SPECS.

Order Number	CRI	CCT
QLUXDOBAR22820W120LED22K8CR	80+	2200K
QLUXDOBAR22820W120LED25K8CR	80+	2500K
QLUXDOBAR22820W120LED27K8CR	80+	2700K
QLUXDOBAR22820W120LED30K8CR	80+	3000K
QLUXDOBAR22820W120LED32K8CR	80+	3200K
QLUXDOBAR22820W120LED35K8CR	80+	3500K
QLUXDOBAR22820W120LED40K8CR	80+	4000K
QLUXDOBAR22820W120LED50K8CR	80+	5000K

Order Number	CRI	CCT
QLUXDOBAR22820W120LED22K9CR	90+	2200K
QLUXDOBAR22820W120LED25K9CR	90+	2500K
QLUXDOBAR22820W120LED27K9CR	90+	2700K
QLUXDOBAR22820W120LED30K9CR	90+	3000K
QLUXDOBAR22820W120LED32K9CR	90+	3200K
QLUXDOBAR22820W120LED35K9CR	90+	3500K
QLUXDOBAR22820W120LED40K9CR	90+	4000K
QLUXDOBAR22820W120LED50K9CR	90+	5000K



CIE Colorimetric Parameters*							
<b>Chromaticity Coordinates</b>		x=0.4328 y=0.3958					
<b>CCT</b>		3003K					
<b>Peak Wavelength</b>		602.6nm					
<b>Dominant Wavelength</b>		583.9nm					
<b>Rendering Index</b>		82.1					
<b>Color Ratio</b>		R=22.8%, G=75%, B=1.7%					
<b>Half Bandwidth</b>		130.2nm					
<b>Color Purity</b>		48.7%					
R1=80	R2=91	R3=96	R4=79	R5=81	R6=88	R7=83	R8=60
R9=12	R10=78	R11=76	R12=72	R13=82	R14=98	R15=75	

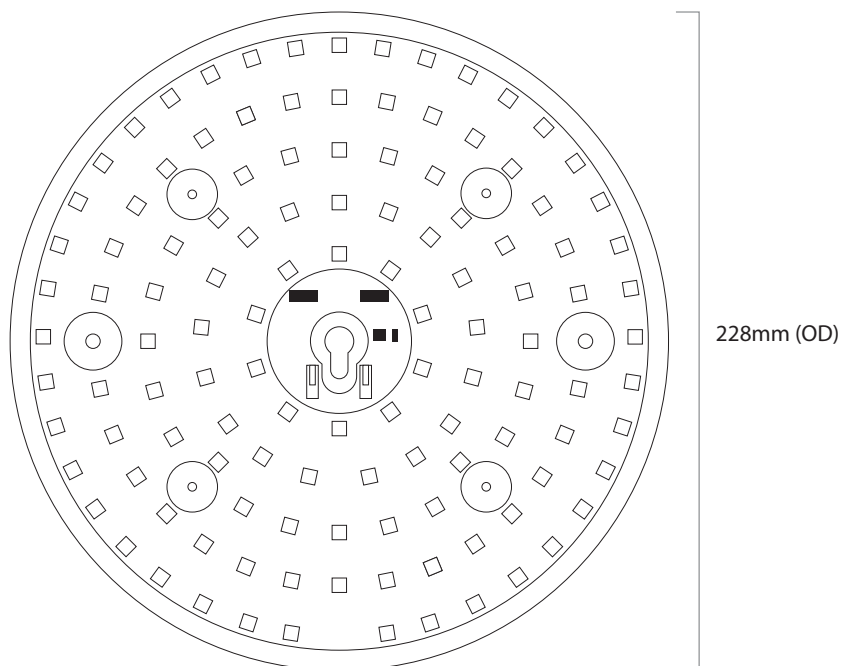
\* Test result shown based on 3000 CCT, 80 CRI model

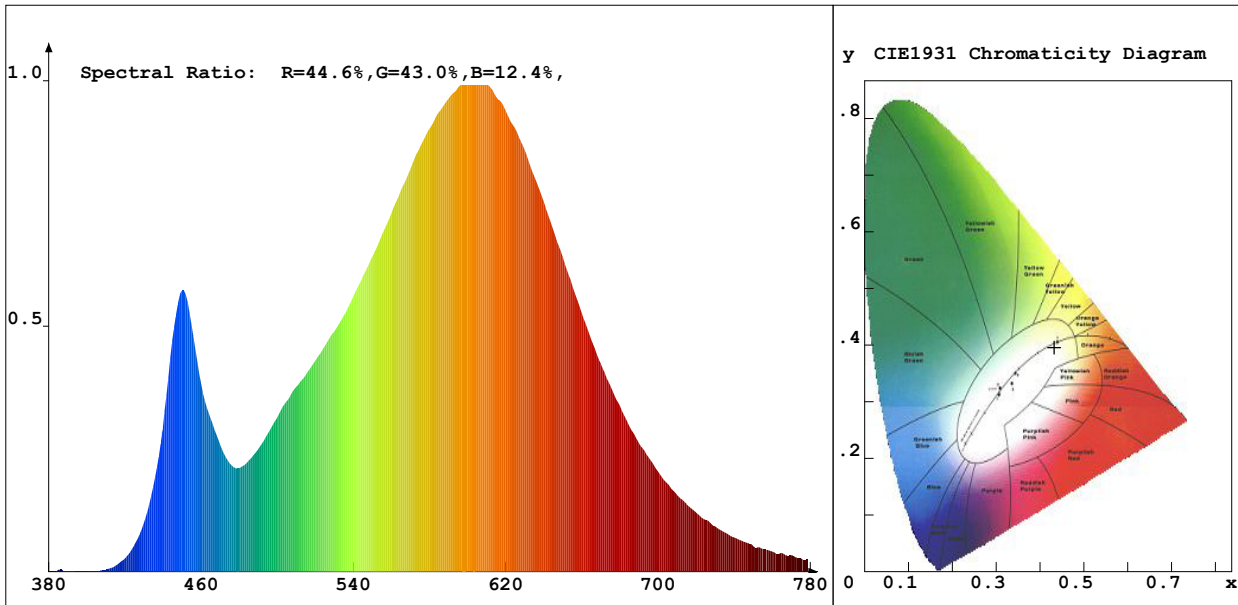
Photometric Parameters*	
<b>Luminous Flux:</b>	1835.5lm
<b>Radiant Power:</b>	15418mW
<b>Efficacy:</b>	83.8lm/W

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

Electric Parameters	
<b>Voltage</b>	U=120.7V
<b>Current</b>	I=0.183A
<b>Power</b>	P=21.9W
<b>Power Factor</b>	PF=0.995

MECHANICAL SPECS.





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!