LTF TECHNOLOGY

POWERED BY LTF

Q-LUX DC LED BOARDS

QLUXL57524LED Series

Information Overview	
Wattage	8.1W
Available CRI	80/90+ *
Available CCT	2200-5000K
Dimensions	575x25mm
Number of LEDs	24
Beam Angle	120
1250 lumens at 4000K	

RoHS

CE

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

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.

16.5W Linear	Wattage	Forward Voltage	Forward Current	
Model Number	**Max.**	**Typ.**	**Typ.**	**Max.**
QLUXL57548LED	10.7W	23.2V	350mA	450mA

Order Number	CRI	CCT
QLUXL57524LED822K	80+	2200K
QLUXL57524LED825K	80+	2500K
QLUXL57524LED827K	80+	2700K
QLUXL57524LED830K	80+	3000K
QLUXL57524LED832K	80+	3200K
QLUXL57524LED835K	80+	3500K
QLUXL57524LED840K	80+	4000K
QLUXL57524LED850K	80+	5000K

Order Number	CRI	CCT
QLUXL57524LED822K	90+	2200K
QLUXL57524LED925K	90+	2500K
QLUXL57524LED927K	90+	2700K
QLUXL57524LED930K	90+	3000K
QLUXL57524LED932K	90+	3200K
QLUXL57524LED935K	90+	3500K
QLUXL57524LED940K	90+	4000K
QLUXL57524LED950K	90+	5000K

* Up to 98 CRI

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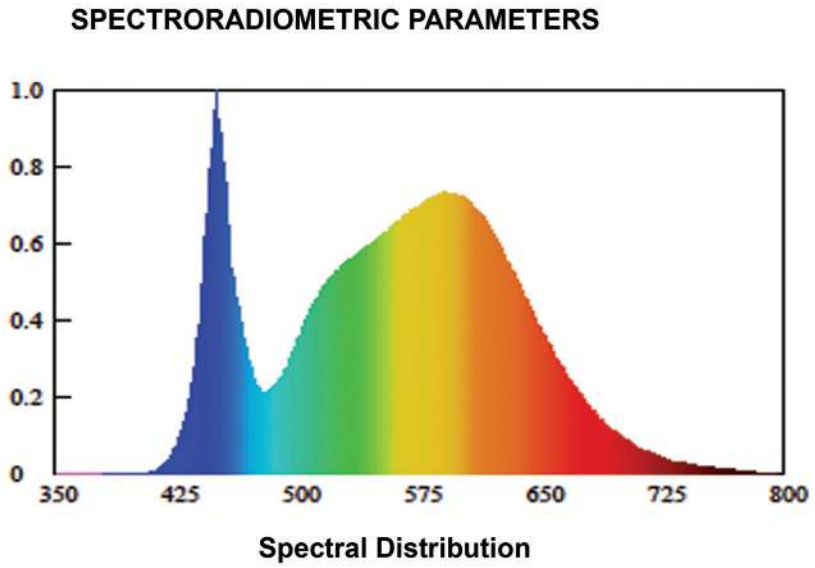
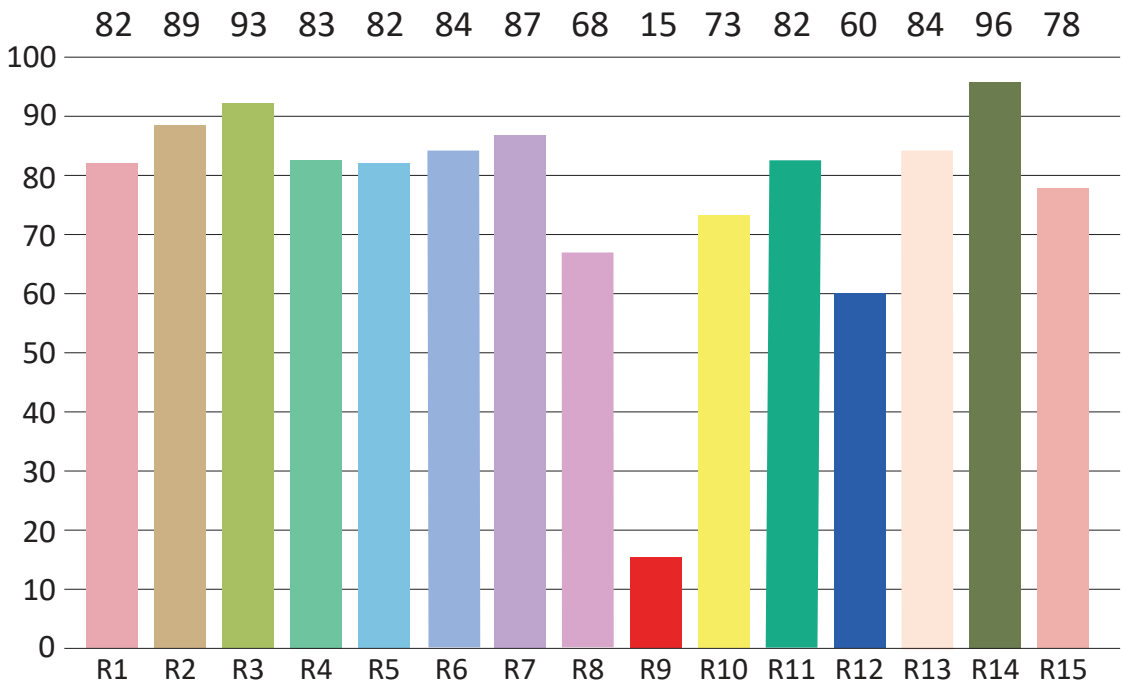
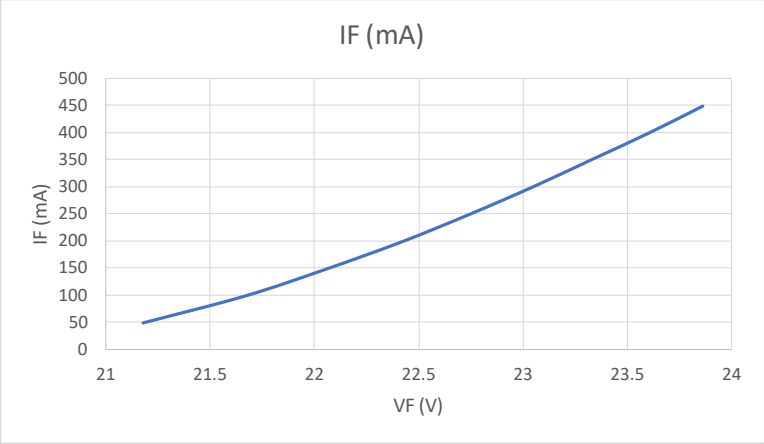
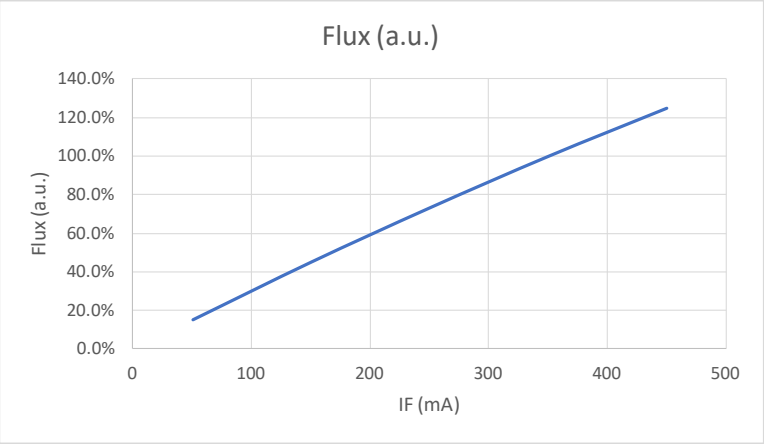
SPECTRORADIOMETRIC CHART



CRI CHART





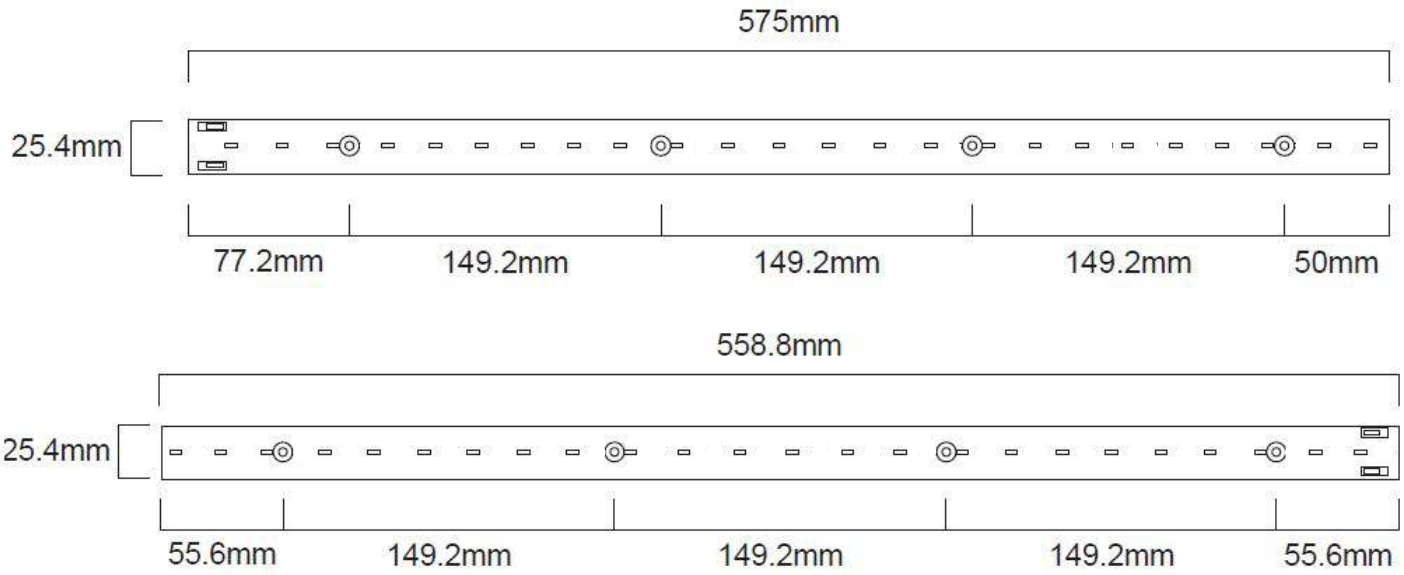


ELECTRICAL SPECIFICATIONS

Item	Specifications					Unit	Remark
	Sym.	Model	Min.	Nom.	Max.		
Luminous Flux	lm	2700K	900	1000	1050		
		3000K	1000	1100	1150	lm	@350mA, Tp=50°C
		3500K	1100	1200	1300		
		4000K	1200	1250	1350		
		5000K	1250	1300	1400		
Efficiency	LPW	2700K	-	120	-		
		3000K	-	130	-	lm/W	@350mA, Tp=50°C
		3500K	-	147	-		
		4000K	-	152	-		
		5000K	-	155	-		
Operating Current	Iop	-	-	350	450	mA	-
Operating Voltage	Vdc	-	-	23.2	-	V	@350mA, Tp=50°C
Power Consumption	-	-	-	8.1	-	W	@350mA, Tp=50°C

Recommended Driver			
120V	**277V**	**220-240V**	**100-305V**
DA10W350C	DE10W350C	DU10W350C	DS10W350C

MECHANICAL SPECIFICATIONS



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 30C 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°C Humidity : less than RH30%
b. If the package has been opened more than 4 week(MSL_2a) or the color of the desiccant changes, components should be dried for 10-12hr at 60±5°C
(3) Do not apply mechanical force or excess vibration during the cooling process to normal temperature after soldering.
(4) Do not rapidly cool device after soldering.
(5) Components should not be mounted on warped (non coplanar) portion of PCB.
(6) Radioactive exposure is not considered for the products listed here in.
(7) 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.
(8) 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.
(9) When the LEDs are in operation the maximum current should be decided after measuring the package temperature.
(10) 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.
(11) The appearance and specifications of the product may be modified for improvement without notice.
(12) Long time exposure of sunlight or occasional UV exposure will cause lens discoloration.
(13) 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.
(14)Attaching LEDs, do not use adhesives that outgas organic vapor.
(15)The driving circuit must be designed to allow forward voltage only when it is ON or OFF.
If the reverse voltage is applied to LED, migration can be generated resulting in LED damage.

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!**