







Information Overview									
Wattage	32W								
Available CRI	80/90+ *								
Available CCT	2200-5000K								
Dimensions	543x25.4mm								
Number of LEDs	64								
Beam Angle 120									







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.

32W Linear	Wattage	F	orward Vo	Forward	l Current	
Model Number	Max.	Тур.	Vf Min.	Vf Max.	Тур.	Max.
QLUXL54364LED	32W	24V	22V	26V	800mA	1200mA

Order Number	CRI	ССТ
QLUXL54364LED22K8CR	+08	2200K
QLUXL54364LED25K8CR	+08	2500K
QLUXL54364LED27K8CR	+08	2700K
QLUXL54364LED30K8CR	+08	3000K
QLUXL54364LED32K8CR	+08	3200K
QLUXL54364LED35K8CR	80+	3500K
QLUXL54364LED40K8CR	80+	4000K
QLUXL54364LED50K8CR	80+	5000K

Order Number	CRI	ССТ
QLUXL54364LED22K9CR	90+	2200K
QLUXL54364LED25K9CR	90+	2500K
QLUXL54364LED27K9CR	90+	2700K
QLUXL54364LED30K9CR	90+	3000K
QLUXL54364LED32K9CR	90+	3200K
QLUXL54364LED35K9CR	90+	3500K
QLUXL54364LED40K9CR	90+	4000K
QLUXL54364LED50K9CR	90+	5000K





ELECTRICAL SPECIFICATIONS - 80 CRI

Absolute Maximum Ratings (Ta=25C, RH30%)			
Parameter	Symbol	Rating	Unit
DC Input Forward Current *	I _{IN}	1200	mA
Power Dissipation	P _D	32	W
Junction Temperature*	Tj	125	°C
Operating Temperature	Topr	-20 ~ +50	°C
ESD	НВМ	5000	V
Storage Temperature	Tstg	-40 ~ +80	°C
Temperature of AI MCPCB** Max.	TS	85	°C

lectrical & Optical Characte	ristics (Ta=25	iC, RH30%)					
Parameter	Symbol	Condition	Model	Min.	Тур.	Max.	Unit
Forward Voltage*	VF	I _F = 800 mA		22	24	26	V
			2700K		2400		
			3000K		2496		
Total Flux	ФV	I _F = 800 mA	3500K		2592		lm
			4000K		2688		
			5000K		2880		
			2700K		125		
			3000K		130		
Efficacy	η	I _F = 800 mA	3500K		135		lm/W
			4000K		140		
			5000K		150		
			2700K		2700		
			3000K		3000		
Color Temperature	ССТ	I _F = 800 mA	3500K		3500		K
			4000K		4000		
			5000K		5000		
Color Rendering Index**	CRI	I _F = 800 mA		80			
Viewing Angle***	2θ _{1/2}	I _F = 800 mA			120		degree
Life Time (L ₇₀)	Т	65C at T _s			50000		hours

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

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

^{**} CCT is <90 for +4000K boards

^{***} $2\theta1/2$ is the off-axis where the luminous intensity is 1/2 of the peak intensity.

^{****} Thermal resistance: RthJS (junction / solder)





ELECTRICAL SPECIFICATIONS - 90 CRI

Absolute Maximum Ratings (Ta=25C, RH30%)			
Parameter	Symbol	Rating	Unit
DC Input Forward Current *	I _{IN}	1200	mA
Power Dissipation	P_{D}	32	W
Junction Temperature*	Tj	125	°C
Operating Temperature	Topr	-20 ~ +50	°C
ESD	HBM	5000	V
Storage Temperature	Tstg	-40 ~ +80	°C
Temperature of AI MCPCB** Max.	TS	85	°C

Electrical & Optical Characte	ristics (Ta=25	C, RH30%)					
Parameter	Symbol	Condition	Model	Min.	Тур.	Max.	Unit
Forward Voltage*	VF	I _F = 800 mA		22	24	26	V
			2700K		2200		
			3000K		2400		
Total Flux	ФV	I _F = 800 mA	3500K		2500		lm
			4000K		2600		
			5000K		2900		
			2700K		110		
			3000K		120		Im/W
Efficacy	η	I _F = 800 mA	3500K		125		lm/W
			4000K		130		lm/W
			5000K		145		
			2700K		2700K		
			3000K		3000		
Color Temperature	ССТ	I _F = 800 mA	3500K		3500		К
			4000K		4000		
			5000K		5000		
Color Rendering Index**	CRI	I _F = 800 mA		90		98	
Viewing Angle***	2θ _{1/2}	I _F = 800 mA			120		degree
Life Time (L ₇₀)	Т	65C at T _s			50000		hours

 $[\]ensuremath{^{*}}$ Notes: All measurements were made under the standardized environment of SSC.

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

^{**} CCT is <90 for +4000K boards

^{***} $2\theta 1/2$ is the off-axis where the luminous intensity is 1/2 of the peak intensity.

^{****} Thermal resistance: RthJS (junction / solder)



Recommended LED Drivers												
120V 277V 200-240V Universal												
DA35W800C	DE35W800C	DU35W800C	DS35W800C									

MECHANICAL SPECS.

																	-	25.4mm
I																ı		

543mm

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!



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 $60\pm5^{\circ}$ 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.