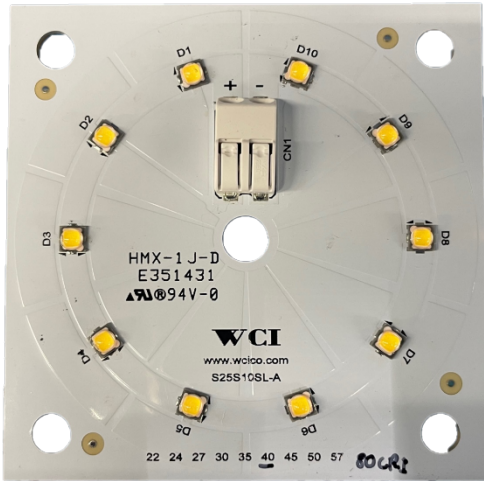


SQUARE Series



2.5"



3"

STANDARD CCTs		
2700K	3000K	3500K
4000K	5000K	
STANDARD CRIs		
80		
90		

Features and Description:

- Square LED Modules
- Available in 2.5" & 3" Squares.
- High efficacy LED chips
- Up to **330** Lumen per Watt
- 3-Step Macadam Binning
- Suitable for DLC 4.0 and 5.0
- Luminaire Class: UL Class 2
- Maximum efficiency and ROHS compliant
- Assembled with UL recognized components.

Applications:

- Landscape Lighting
- Street Lighting
- Down Lighting
- General Illumination
- Retrofits





SQUARE 2.5"

1- Module Ordering Code:

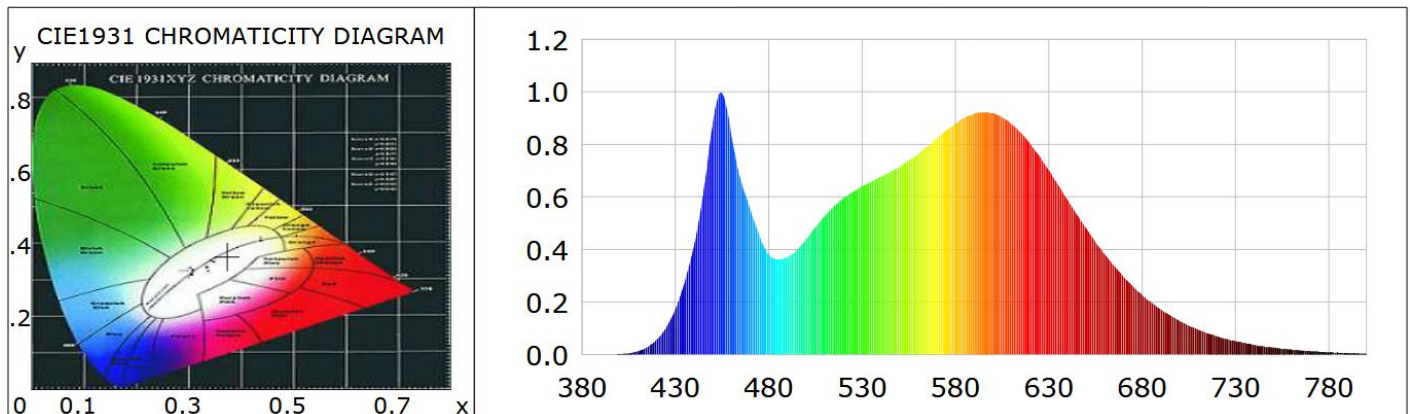
CCT	CRI	Part Number
3000K	80CRI	SQ2.5LX10C3080CC
4000K	70CRI	SQ2.5LX10C4070CC
5700K		SQ2.5LX10C5770CC
6100K		SQ2.5LX10C6170CC
6500K		SQ2.5LX10C6570CC

2- Photometric Parameters:

CCT	Luminous Flux	Efficiency	Voltage	Current/ Board	Power	Input Mode
4000K 70CRI	1995 lm	200 lm/W	28.50 V	350 mA	9.97 W	Constant Current
	7365 lm	334 lm/W	31.50 V	700 mA	22.05 W	

*Characteristics at $T_j = 25^\circ\text{C}$ for 350mA and $T_j = 85^\circ\text{C}$ for 700mA

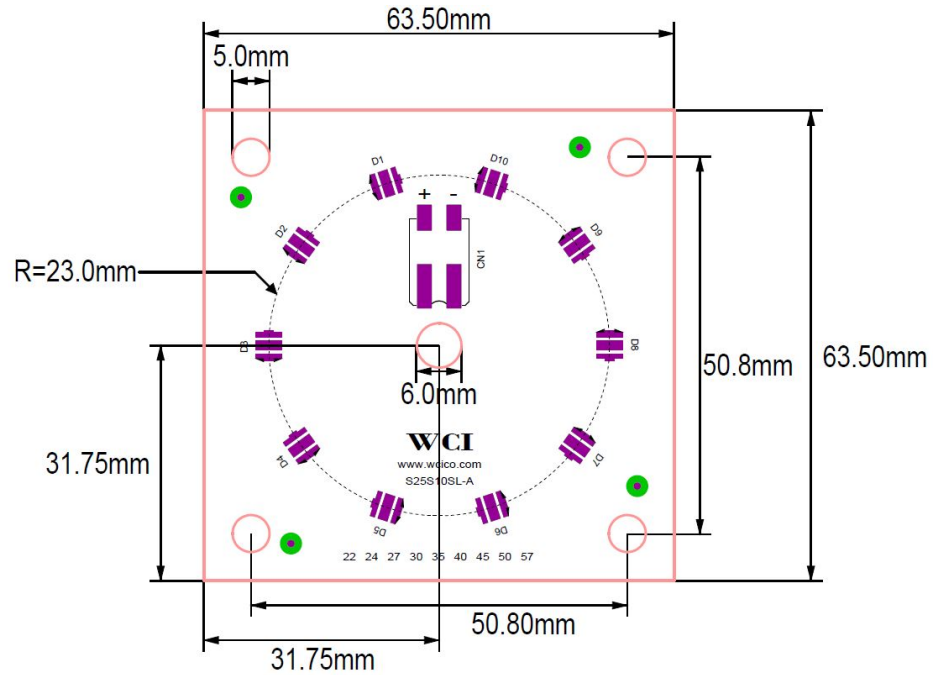
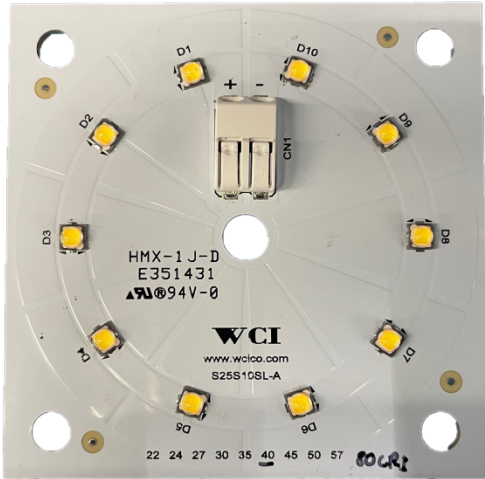
3- Light Characteristics:



Chromaticity Coordinates	$x=0.374, y=0.366$	Color Ratio	$R=0.174, G=0.789, B=0.036$
CCT	4110K	CRI	$R_a=72.3$
Energy Efficiency Class	A++ (EU 874-2012)	Color Purity	0.221



4- Dimensions and Structure:



Dimensions	Specification	Dimensions	Specification
<i>Module Length</i>	63.50 mm	<i>Module Height</i>	6.10 mm
<i>Module Width</i>	63.50 mm	<i>PCB Thickness</i>	1.60 mm
<i>PCB Material</i>	MCPCB	<i>Module Weight</i>	10 g

5- Absolute Maximum Ratings:

Parameter	Max.
<i>Forward LED Current to Module I_F</i>	1500 mA
<i>LED Junction Temperature T_j</i>	150 °C
<i>Ambient/Operating Temperature T_a</i>	-40 to 125 °C

6- Wiring for Connectors:

Specification	Value
<i>Input Wire Cross-Section, Solid/ Fine Stranded</i>	0.2 – 0.75 mm ²
	24 – 18 AWG
<i>Input Wire Strip Length</i>	7.0 – 9.0 mm



SQUARE 3"

1- Module Ordering Code:

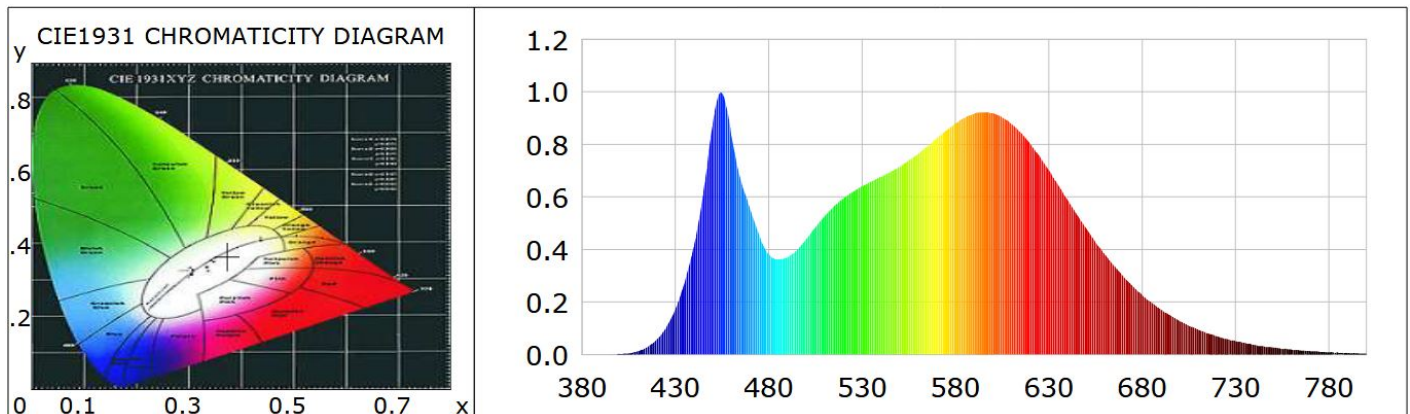
CCT	CRI	Part Number
3000K	80CRI	SQ03LX28C3080CC
4000K	70CRI	SQ03LX28C4070CC
5700K		SQ03LX28C5770CC
6100K		SQ03LX28C6170CC
6500K		SQ03LX28C6570CC

2- Photometric Parameters:

CCT	Luminous Flux	Efficiency	Voltage	Current/ Board	Power	Input Mode
4000K 70CRI	5585 lm	200 lm/W	39.90 V	700 mA	27.93 W	Constant Current
	20620 lm	334 lm/W	44.10 V	1400 mA	61.74 W	

*Characteristics at $T_j = 25^\circ\text{C}$ for 350mA and $T_j = 85^\circ\text{C}$ for 700mA

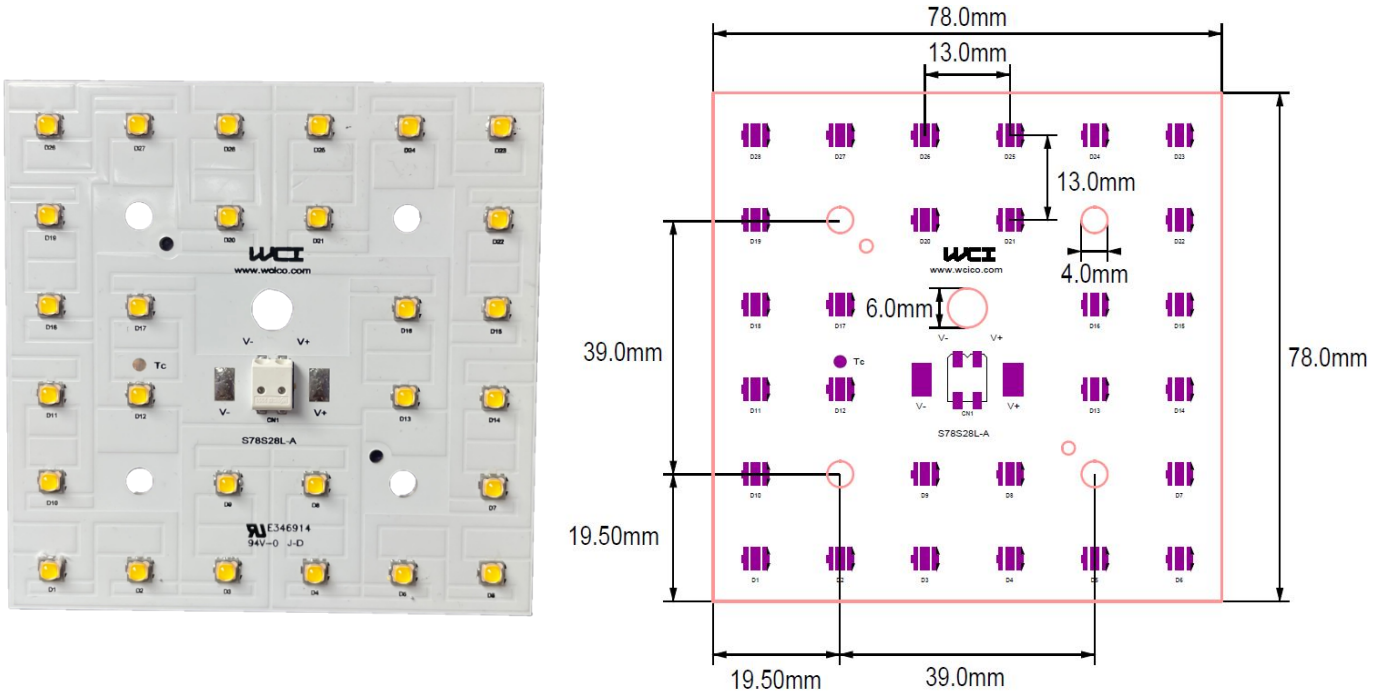
3- Light Characteristics:



Chromaticity Coordinates	$x=0.374, y=0.366$	Color Ratio	$R=0.174, G=0.789, B=0.036$
CCT	4110K	CRI	$R_a=72.3$
Energy Efficiency Class	A++ (EU 874-2012)	Color Purity	0.221



4- Dimensions and Structure:



Dimensions	Specification	Dimensions	Specification
<i>Module Length</i>	78.0 mm	<i>Module Height</i>	4.30 mm
<i>Module Width</i>	78.0 mm	<i>PCB Thickness</i>	1.60 mm
<i>PCB Material</i>	MCPCB	<i>Module Weight</i>	15 g

5- Absolute Maximum Ratings:

Parameter	Max.
<i>Forward LED Current to Module I_F</i>	3000 mA
<i>LED Junction Temperature T_j</i>	150 °C
<i>Ambient/Operating Temperature T_a</i>	-40 to 125 °C

6- Wiring for Connectors:

Specification	Value
<i>Input Wire Cross-Section, Solid/ Fine Stranded</i>	0.14 – 0.34 mm ² 26 – 22 AWG
<i>Input Wire Strip Length</i>	4.0 – 5.50 mm