

Feature

- High power density LED matrix
- 95+ CRI (white light)
- Accurate chromaticity, up to 2.5nm wavelength tolerance (single color)
- Full line-up color / CCT options
- Flexible layout design for customization

Application

- Stage / Entertainment lighting
- Effect / Accent lighting
- Photographic / Film / studio lighting
- Architectural lighting

About Yujileds®

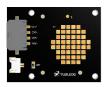
Table of Contents

Introduction

Introduction	
Features	6
Product line	11
Special features	13
Specification Sp	
(All-in-One)	
Ordering information	16
Characteristics	17
Package material and dimension	25
Characteristic graph	26
Solder and reflow profile	29
SMT instruction	30

Specification

(Chip-on-Board bicolor / Rated 100W; Max 240W / Bicolor)



Ordering information	32
Characteristics	32
Chromaticity group and diagram	33
Mechanical dimension	34
Characteristic graph	3/

Specification

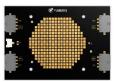
(Chip-on-Board bicolor / Rated 300W; Max 720W / Bicolor)



Ordering information	36
Characteristics	36
Chromaticity group and diagram	37
Mechanical dimension	38
Characteristic graph	38

Specification

(Chip-on-Board bicolor / Rated 500W; Max 1440W / Bicolor)



Ordering information	40
Characteristics	40
Chromaticity group and diagram	41
Mechanical dimension	42
Characteristic graph	42

Specification

(Chip-on-Board / Rated 200W; Max 550W / RGBWW)



Ordering information	44
Characteristics	44
Chromaticity group and diagram	47
Mechanical dimension	48
Characteristic graph	49

Specification

(Chip-on-Board / Rated 500W; Max 1200W / RGBWW)



Ordering information	51
Characteristics	51
Chromaticity group and diagram	54
Mechanical dimension	55
Characteristic graph	56
Specification	
(LED componant)	
Ordering information	58
Characteristics	59
Chromaticity group and diagram	63
Package material and dimension	65
Characteristic graph	66
Solder and reflow profile	80
SMT instruction	81
Packaging	81
About Yujileds	82



Introduction



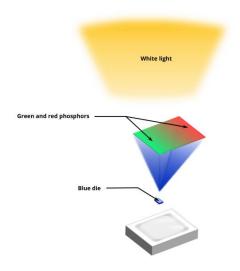
Yujileds® Matrix aims to provide high-density illumination with high-performance white, tunable-white light and full-color lighting options for a variety of applications that require focusing light, accurate chromaticities and excellent color rendition. The Matrix is developed based on the purpose of simplifying the optical design with the small Light Emitting Surface (LES) to accomplish the spectra mixing.

Compared to a standard LED COB or module, the Yujileds® Matrix module has the features below:

- Yujileds® high CRI LED technology & enhanced R9
- Accurate chromaticity control
- PC-red technology
- <u>Full-color gamut coverage</u>
- Spectrum recipe design
- Custom and module design

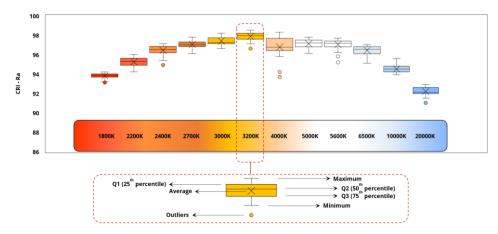
Features

Yujileds® high CRI LED technology & enhanced R9



Yujileds® high CRI LED is based on the efficient blue (typical 450nm) die, mixing with Yuji

advanced phosphors and specifically designed spectral recipes. Although there are more and more nominal "high CRI LED" on the market, after relevant tests and analyses, it is proud to say that we are still one of the top performance, most consistent and stable products on the color rendering. We have been provided the full statistic and data support from the production of 1,000,000pcs of each CCT from 1800K to 20000K, and present all characteristics and guidance to make reliable simulation and prediction accordingly. Achieving typical Ra 97 and minimum Ra 95, the stability and consistent quality in mass production are verified by statistical identification.



The standard CRI Ra is the average score of the first eight Test Color Samples (TCS), where the 9th for saturated red color is missed. However R9 is significantly different for different light sources. In the spectral analysis and CRI arithmetic, the integral area between the spectrum and the spectral reflectance response of TCS-9 decides the R9 to a large extent – in other words, how much of TCS-9 spectra reflectance is overlaid in the light source spectrum, that is a key factor. With Yujileds® advanced phosphor material and recipes, the R9 is far better than fluorescent and standard LED, almost the same outstanding as halogen.

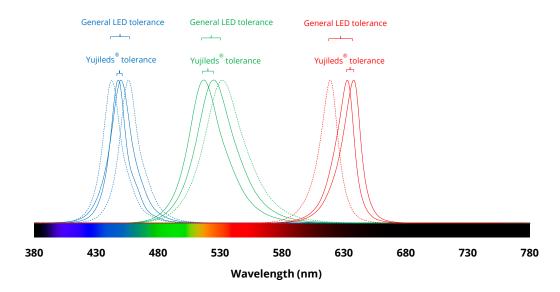
Light source	R9
Halogen (2865K)	99
Fluorescent (3000K)	-27
Standard LED (3000K)	13
Yuiileds® high CRI LED (2700K)	96





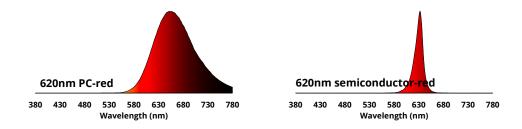
Accurate chromaticity control

For specific applications such as entertainment or architectural lighting, color consistency and stability are extremely important and are affecting the value of the product. However, the wavelength tolerance of general LEDs is quite abroad that generates the consistency risk, in comparison, Yujileds® Matrix offers up to 2.5nm binning, securing the tolerance to a great extent.



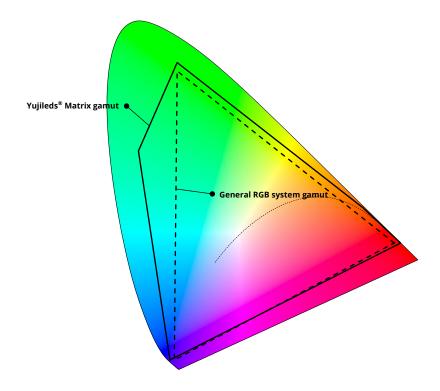
PC-red technology

Yuji is well-known for its stable and high-brightness nitride red phosphor, in the Yujileds® Matrix, we develop a red phosphor-converted LED achieving both saturated red color and abroad spectrum. The significance of PC-red is to create pure red with the same dominant wavelength of a semiconductor red LED and keep high CRI when mixing with white light or R/G/B/A system which cannot be feasible for the semiconductor-red LED. In the Yujileds® Matrix line, both PC-red and semiconductor red are prepared for different needs.



Full-color gamut coverage

Compared to a general RGB system, Yujileds® Matrix provides richer color gamut coverage significantly, which enables the possibility to create more colors by appropriate tuning programs. This is especially meaningful for film and stage lighting that the lighting designer and director could get more tints to create different lighting environments.



Spectrum recipe design



Users can get the support of Spectrum & Chromaticity System (Pro) which is developed by Yuji scientists on the Yujileds® LED Matrix Solution. It is a comprehensive and fully-functional tool compared to the <u>simple online version</u>. Built-in Microsoft Excel for universality, users do not need to install extra software but can provide many rich functions including but not limited to the listed below:

- User designed LED spectra and relevant calculation data;
- Visual color & CCT simulation;
- White light chromaticity analysis;
- Spectrum comparison;
- Coordinate convention.

Custom and module design

Module design and custom are important parts of what we do. In different and complex projects, we have been helped our clients with solving the tasks of chromaticity, spectrum, thermal control and specification make. With years of experience focusing in module customization, we encourage to contact us if the items below are critical for your projects:

- Particularly care about the optical performance of the final luminaire;
- Know well or don't understand the features and discrepancy between the individual LED and integrated module, but it is challenging to solve and control the consistency issues with balanced cost performance by yourself;
- Need serious specifications for exact calculation to secure the reliable and stable performance of the luminaire;
- Focus on the product's duration, plan to upgrade timely, and need to track the historical data as references;
- Plan to run the confidential projects without disclosing any key information of knowhow to the markets;
- Need professional consultancy in both technical and industrial ways, especially regarding the interaction between optics and electronics and precise control;



- Need professional test report, control and analysis for every batch of the module;
- Need stable supplied materials up to 10 years no-change.

Product line

The design concept of the Matrix module has 2 methods for different lighting design purposes:

All-in-One

The "All-in-One" LED includes 5 colors and white light as the primaries in a compact package of 7.0mm×7.0mm size (name as 7070H)., it is the closest LED to a point light source but with rich and comprehensive spectrum mixing recipes, each LED package is an individual light source that can achieve full-color functions. The "All-in-One" LED can reach a saturated color gamut in the CIE diagram and excellent white light with accurate chromaticity coordinates. The 7070H LED package with different colors/CCTs is defined as listed below.

LED	Available options		Dominant wavelength / CCT
		Blue	455nm
_		Cyan	495nm
		Green	525nm
	•	PC-lime	550nm
	•	PC-amber	595nm
	PC-red		620nm
	•	Red	620nm
		Warm white	2700K
	0	Daylight white	6500K
	- Custom		Custom

Chip-on-Board module

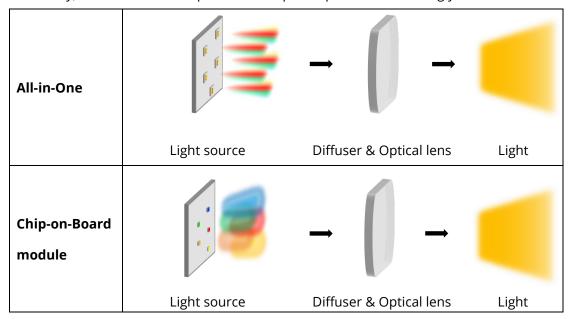
Compared to the "All-in-one" LED, the "Chip-on-Board" LED module organizes different colors in a CoB style and is more flexible to define different layout designs with more color options. The whole "Chip-on-Board" module is the unit light source that each color on it will be collocated with the adjacent to accomplish the spectra mixing. Different CCTs/colors are defined as the standards on the "Chip-on-Board" as listed below, with 2.0mm×2.0mm size.

Module	LED component	Av	ailable options	Dominant wavelength / CCT
			Blue	455nm
₩ YYUMADO	\(\rightarrow\)		Cyan	495nm
Posts Committee Notes	\(\rightarrow\)		Green	525nm
		•	PC-lime	550nm
€ YUIILEDS		0	PC-amber	595nm
			PC-red	620nm
			Red	620nm
3 1 5 b			Warm white	2700K
		0	Daylight white	6500K
TUBLEDS TO THE PARTY OF THE PAR	_	-	Custom	Custom

Applied on the board, the colors can be mixed sufficiently after the optics or reflector thus the "Chip-on-Board" is the final point light source.

Comparison

The "All-in-One" and "Chip-on-Board" present different features thus they lead to different design paths. The different structure makes the optical, electrical and thermal designs differently, solutions would depend on the specific products accordingly.



Special features

Yujileds® LED Matrix also provides the specification or support described below:



Yujileds® Spectrum & Chromaticity System (Pro) support

Comprehensive and full-functional tool for spectrum design and chromaticity analysis, built-in Microsoft Excel for universality.



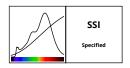
TM-30 specification (white light)

The most advanced colorimetric for color rendition, widely recognized as the successor of CRI.



TLCI specification (white light)

Based on the Macbeth ColorChecker, for evaluating the colorimetric quality of the broadcast lighting.



SSI specification (2700K & 6500K)

For evaluating the rendering quality of light sources in motion picture application based on ISO standard 7589.



SimpleBinning specification

Simplify the chromaticity binning with TrueChroma data support to provide the most economical, simple, and practical solution to customers.

Specification

(All-in-One)



Ordering information

PRODUCT CODE	PRODUCT BILD	CCT / COLOR	CHROMATICITY BINS / DOMINANT WAVELEGNTH	VOLTAGE RANGE
		• 2700K	27G	0.2V
		○ 6500K	65G	0.2V
		Blue	B1	0.2V
P3230002.01		Green	G1, G2	0.2V
		Cyan	C1, C2	0.2V
		PC-red	PCR1	0.2V
		PC-lime	PCL1	0.2V
		• 2700K	27G	0.2V
		○ 6500K	65G	0.2V
		Blue	B1	0.2V
P3230002.02		Green	G1, G2	0.2V
		PC-red	PCR1	0.2V
		PC-lime	PCL1	0.2V
		PC-amber	PCA1	0.2V
		• 2700K	27G	0.2V
	_	Blue	B1	0.2V
		Green	G1, G2	0.2V
P3230002.03		Cyan	C1, C2	0.2V
		PC-red	PCR1	0.2V
		PC-lime	PCL1	0.2V
		PC-amber	PCA1	0.2V
		• 2700K	27G	0.2V
		○ 6500K	65G	0.2V
		• 2700K	27G	0.2V
P3220002.04		○ 6500K	65G	0.2V
		Blue	B1	0.2V
		Green	G1, G2	0.2V
		PC-red	PCR1	0.2V
		• 2700K	27G	0.2V
		• Blue	B1	0.2V
		• Green	G1, G2	0.2V
Pending		Cyan	C1, C2	0.2V
		• Red	R1, R2	0.2V
		• PC-lime	PCL1	0.2V
		PC-amber	PCA1	0.2V
-	-	- Custom	Custom	0.2V

LED electrical-optical characteristics (T_A = 25°C, 700mA, white light)

PARAMETER	SYMBOL	VALUE			LINUT	TOLEDANICE
	SYMBOL	MIN.	TYP.	MAX.	UNIT	TOLERANCE
Forward voltage	V_{F}	2.8	-	3.4	V	±0.05
Luminous flux	• Ф _{2700К}	125	-	145	– Im	
Luminous nux	О Ф _{6500К}	185	-	205	1111	-
Correlated color	CCT_{2700K}	2650	2800	2950	– к	
temperature ⁽¹⁾	○ CCT _{6500K}	6000	6500	7000	— к	-
Color rendering index	Ra	95 ⁽²⁾	-	-	-	±1
TCS R9 (CRI red)	R9	-	90	-	-	-
Fidelity index ⁽³⁾	Rf	-	92	-	-	-
Gamut index ⁽³⁾	Rg	-	100	-	-	-
TLCI 2012 ⁽⁴⁾	-	-	97	-	-	-
SSI ⁽⁵⁾	SSI _{2700K}	-	87	-	-	-
221 ⁻⁷	SSI _{6500K}	-	67	-	-	-
Reverse current	I _r	=	-	10	μΑ	$\pm 0.1 \text{ (V}_r = 5\text{V)}$
View angle	$2\theta_{1/2}$	=	120	-	Deg	±5
Thermal resistance	$R_{\theta JS}$	-	0.7(6)	-	°C/W	-

- (1). Yujileds® promises the chromaticity coordinate tolerance of ±0.0015 (CIE 1931 x,y) based on Yuji standard equipment shall prevail.
- (2). Typical Ra = 95 at 6500K.
- (3). Defined by the IES TM-30-18 method, this data is for trial.
- (4). Defined by the EBU, TLCI is the abbreviation of Television Lighting Consistency Index, this data is for trial.
- (5). Defined by the Academy of Motion Picture Arts and Sciences, this data is for trial.
- (6). This data is for reference only.

LED electrical-optical characteristics (T_A = 25°C, 1500mA, white light)

PARAMETER	SYMBOL	VALUE			LINUT	TOLEDANICE
	STMBUL	MIN.	TYP.	MAX.	- UNIT	TOLERANCE
Forward voltage	V_{F}	3.0	-	4.0	V	±0.05
Luminous flux	• Ф _{2700К}	245	-	275	– Im	
Luminous nux	О Ф _{6500К}	350	-	380		-
Correlated color	CCT_{2700K}	2650	2800	2950	V	
temperature ⁽¹⁾	○ CCT _{6500K}	6000	6500	7000	— К	-
Color rendering index	Ra	95 ⁽²⁾	-	-	-	±1
TCS R9 (CRI red)	R9	-	90	-	-	-
Fidelity index ⁽³⁾	Rf	-	92	-	-	-
Gamut index ⁽³⁾	Rg	-	100	-	-	-
TLCI 2012 ⁽⁴⁾	-	-	97	-	-	-
SSI ⁽⁵⁾	SSI _{2700K}	-	87	-	-	-
33 167	SSI _{6500K}	-	67	-	-	-
Reverse current	I _r	-	-	10	μΑ	±0.1 (V _r = 5V)
View angle	2θ _{1/2}	-	120	-	Deg	±5
Thermal resistance	$R_{\theta JS}$	-	0.7(6)	-	°C/W	-

- (1). Yujileds® promises the chromaticity coordinate tolerance of ±0.0015 (CIE 1931 x,y) based on Yuji standard equipment shall prevail.
- (2). Typical Ra = 95 at 6500K.
- (3). Defined by the IES TM-30-18 method, this data is for trial.
- (4). Defined by the EBU, TLCI is the abbreviation of Television Lighting Consistency Index, this data is for trial.
- (5). Defined by the Academy of Motion Picture Arts and Sciences, this data is for trial.
- (6). This data is for reference only.

LED Electrical-optical characteristics (T_A = 25°C, 700mA, single color)

				VALUE			
COLOR	PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	
	Forward voltage	V _F	2.8	-	3.4	٧	
	Luminous flux	Ф	46	-	54	lm	
0 PI	Dominant wavelength ⁽¹⁾	$\lambda_{ extsf{D}}$	455	-	460	nm	
Blue	Peak wavelength ⁽¹⁾	λ_{P}	-	454	-	nm	
- blue	View angle	2θ _{1/2}	-	120	-	Deg	
	Reverse current	l _r	-	-	10 (V _r = 5V)	μΑ	
	Thermal resistance	$R_{\theta JS}$	-	0.7(2)	-	°C/W	
	Forward voltage	V_{F}	2.5	-	3.4		
	Luminous flux	Ф	150	-	200		
	Dominant wavelength ⁽¹⁾	$\lambda_{ extsf{D}}$	490	-	500		
Cyan	Peak wavelength ⁽¹⁾	$\lambda_{ extsf{P}}$	-	495			
	View angle	2θ _{1/2}	-	120	-		
	Reverse current	l _r					
	Thermal resistance	$R_{\theta JS}$	-	0.7(2)	-		
	Forward voltage	V_{F}	2.3	-	3.0	٧	
	Luminous flux	Ф	240	-	300	lm	
	Dominant wavelength ⁽¹⁾	λ_{D}	520	-	535	nm	
Green	Peak wavelength ⁽¹⁾	λ_{P}	-	520	-	nm	
	View angle	2θ _{1/2}	-	120	-	Deg	
	Reverse current	l _r	-	-	10 (V _r = 5V)	μΑ	
	Thermal resistance	$R_{\theta JS}$	-	0.7(2)	-	°C/W	
	Forward voltage	V_{F}	2.8	-	3.4	٧	
	Luminous flux	Ф	310	-	350	lm	
	Dominant wavelength ⁽¹⁾	$\lambda_{ extsf{D}}$	548	-	558	nm	
PC-lime	Peak wavelength ⁽¹⁾	λ_{P}	-	516	-	nm	
	View angle	2θ _{1/2}	-	120	-	Deg	
	Reverse current	l _r	-	-	10 (V _r = 5V)	μΑ	
	Thermal resistance	$R_{\theta JS}$	-	0.7(2)	-	°C/W	
	Forward voltage	V_{F}	2.8	-	3.4	٧	
	Luminous flux	Ф	90	-	120	lm	
	Dominant wavelength ⁽¹⁾	$\lambda_{ extsf{D}}$	595	-	605	nm	
PC-amber	Peak wavelength ⁽¹⁾	λ_{P}	-	602	-	nm	
	View angle	2θ _{1/2}	-	120	-	Deg	
	Reverse current	l _r	-	-	10 (V _r = 5V)	μA	
	Thermal resistance	$R_{\theta JS}$	-	0.7(2)	-	°C/W	

LED Electrical-optical characteristics (T_A = 25°C, 700mA, single color, continued)

COLOR	PARAMETER	CVMPOL		LINUT		
COLOR	PARAMETER	SYMBOL -	MIN.	TYP.	MAX.	UNIT
	Forward voltage	V_{F}	2.8	-	3.4	V
	Luminous flux	Ф	40	-	50	lm
	Dominant wavelength ⁽¹⁾	λ_{D}	624	628	634	nm
PC-red	Peak wavelength ⁽¹⁾	λ_{P}	-	647	-	nm
	View angle	2θ _{1/2}	-	120	-	Deg
	Reverse current	l _r	-	-	10 (V _r = 5V)	μA
	Thermal resistance	$R_{\theta JS}$	-	0.7(2)	-	°C/W

- (1). Yujileds® promises the chromaticity coordinate tolerance of ± 0.0015 (CIE 1931 x,y) based on Yuji standard equipment shall prevail.
- (2). This data is for reference only.

LED Electrical-optical characteristics ($T_A = 25$ °C, 1500mA, single color)

				VALUE			
COLOR	PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	
	Forward voltage	V _F	3.0	-	4.0	V	
	Luminous flux	Ф	90	-	100	lm	
0.71	Dominant wavelength ⁽¹⁾	$\lambda_{ extsf{D}}$	455	-	460	nm	
Blue	Peak wavelength ⁽¹⁾	λ_{P}	-	452	-	nm	
• blue	View angle	2θ _{1/2}	-	120	-	Deg	
	Reverse current	l _r	-	-	10 (V _r = 5V)	μΑ	
	Thermal resistance	$R_{\theta JS}$	-	0.7(2)	-	°C/W	
	Forward voltage	V_{F}	2.8	-	3.6		
	Luminous flux	Ф	260	-	330		
	Dominant wavelength ⁽¹⁾	$\lambda_{ extsf{D}}$	490	-	500		
Cyan	Peak wavelength ⁽¹⁾	λ_{P}	-	494	-		
	View angle	2θ _{1/2}	-	120	-		
	Reverse current	l _r					
	Thermal resistance	$R_{\theta JS}$		0.7(2)			
	Forward voltage	V _F	2.6	-	3.6	٧	
	Luminous flux	Ф	450	-	500	lm	
	Dominant wavelength ⁽¹⁾	λ_{D}	520	-	535	nm	
Green	Peak wavelength ⁽¹⁾	λ_{P}	-	520	-	nm	
	View angle	2θ _{1/2}	-	120	-	Deg	
	Reverse current	l _r	-	-	10 (V _r = 5V)	μΑ	
	Thermal resistance	$R_{\theta JS}$	-	0.7(2)	-	°C/W	
	Forward voltage	V_{F}	3.0	-	4.0	٧	
	Luminous flux	Ф	600	-	660	lm	
	Dominant wavelength ⁽¹⁾	$\lambda_{ extsf{D}}$	547	-	557	nm	
PC-lime	Peak wavelength ⁽¹⁾	λ_{P}	-	516	-	nm	
	View angle	2θ _{1/2}	-	120	-	Deg	
	Reverse current	l _r	-	-	10 (V _r = 5V)	μΑ	
	Thermal resistance	$R_{\theta JS}$	-	0.7(2)	-	°C/W	
	Forward voltage	V_{F}	2.8	-	3.4	٧	
	Luminous flux	Ф	170	-	215	lm	
	Dominant wavelength ⁽¹⁾	$\lambda_{ extsf{D}}$	595	-	605	nm	
PC-amber	Peak wavelength ⁽¹⁾	λ_{P}	-	602	-	nm	
	View angle	2θ _{1/2}	-	120	-	Deg	
	Reverse current	l _r	-	-	10 (V _r = 5V)	μΑ	
	Thermal resistance	$R_{\theta JS}$	-	0.7(2)	-	°C/W	

LED Electrical-optical characteristics (T_A = 25°C, 1500mA, single color, continued)

COLOR	DADAMETER	CVMPOL		UNUT		
COLOR	PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
	Forward voltage	V_{F}	3.0	-	4.0	V
	Luminous flux	Ф	75	-	85	lm
	Dominant wavelength ⁽¹⁾	λ_{D}	623	-	633	nm
PC-red	Peak wavelength ⁽¹⁾	λ_{P}	-	647	-	nm
	View angle	2θ _{1/2}	-	120	-	Deg
	Reverse current	l _r	-	-	10 (V _r = 5V)	μA
	Thermal resistance	$R_{\theta JS}$	-	0.7(2)	-	°C/W

- (1). Yujileds® promises the chromaticity coordinate tolerance of ± 0.0015 (CIE 1931 x,y) based on Yuji standard equipment shall prevail.
- (2). This data is for reference only.

Absolute maximum ratings ($T_A = 25$ °C)

PARAMETER	SYMBOL	LIMIT	UNIT
Power Consumption	P_D	5000	mW
DC Forward Current (pulsed) ⁽¹⁾	I _{Fp}	1600 ⁽²⁾	mA
DC Forward Current	I _F	1500	mA
Reverse Voltage	V_R	5	V
Junction Temperature	T _j	150	°C
Solder Point Temperature ⁽³⁾	Ts	105	°C
Operating Temperature	T_{opr}	-40 ~ +85	°C
Storage Temperature	T_{stg}	-30 ~ +85	°C
Soldering Temperature	T _{sol}	260 ± 5	°C
Reflow Cycles Allowed	-	2	-

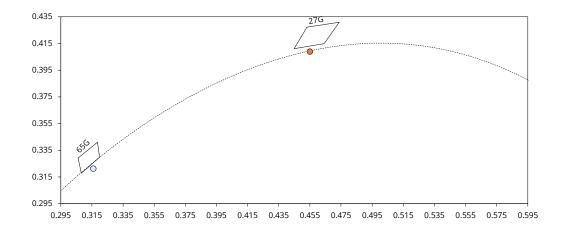
- (1). Pulse width ≤ 0.1 ms, duty $\leq 1/10$.
- (2). Theoretical data.
- (3). See page Package material and dimension.

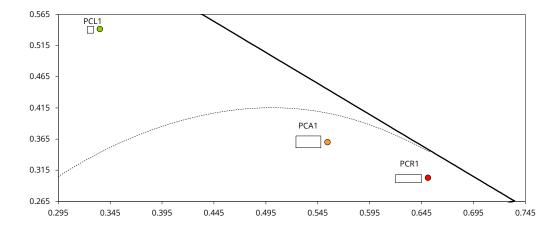
Chromaticity group and diagram

Chromaticity bins & coordinates (T_A = 25°C, 700mA, white light, PC-lime, PC-amber, PC-red)

CCT / COLOR	BIN			C	IE 1931 CO	ORDINATE	S		
CCI/COLOR	BIIN -	X0	YO	X1	Y1	X2	Y2	ХЗ	Y3
2700K	27G	0.4532	0.4272	0.4449	0.4111	0.4642	0.4149	0.4739	0.4309
○ 6500K	65G	0.3061	0.3292	0.3082	0.3178	0.3199	0.3298	0.3186	0.3410
PC-lime	PCL1	0.3230	0.5350	0.3290	0.5350	0.3290	0.5460	0.3230	0.5460
PC-amber	PCA1	0.5240	0.3510	0.5480	0.3510	0.5480	0.3700	0.5240	0.3700
• PC-red	PCR1	0.6200	0.2950	0.6450	0.2950	0.6450	0.3080	0.6200	0.3080

CIE 1931 diagram





Chromaticity group and diagram

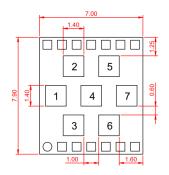
Dominant wavelength bins (T_A = 25°C, 700mA, blue, cyan, green, red)

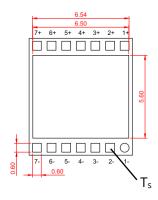
COLOR	DIN	WAVELENGTH	1	LINUT
COLOR	BIN	MIN.	MAX.	UNIT
• Blue	B1	455	460	nm
O. Chan	C1	490	495	nm
O Cyan	C2	495	500	nm
Green	G1	522	527	nm
Green	G2	527	532	nm
• Red	R1	615	618	nm
	R2	618	621	nm

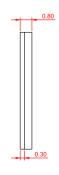
Package material and dimension

Package layout

All dimensions in mm, tolerance unless mentioned is ±0.1mm.







Package materials (white light, PC-lime, PC-amber, PC-red)

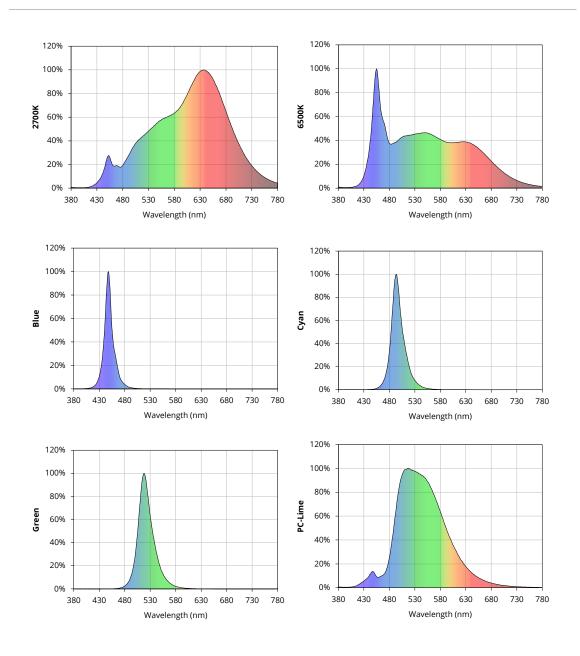
ITEM	DESCRIPTION
Die material	InGaN
Lead frame material	AIN

Package materials (blue, cyan, green, red)

ITEM	BLUE	CYAN	GREEN	RED	
Die material	InGaN	InGaN	InGaN	AlGaInP	
Lead frame material	AIN				

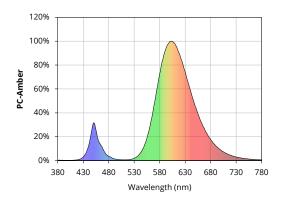
Characteristic graph

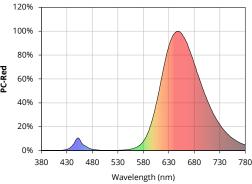
Typical spectral power distribution (normalized)



Characteristic graph

Typical spectral power distribution (normalized) (Continued)

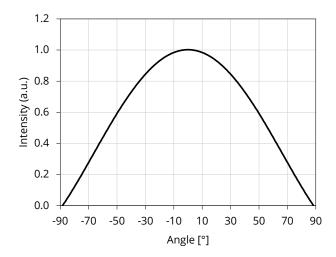




Characteristic graph

Spatial distribution ($T_A = 25$ °C, $I_F = 700$ mA)

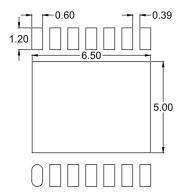
All characteristic curves are for reference only and not guaranteed.

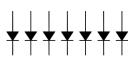


Solder and reflow profile

Recommended solder pad layout

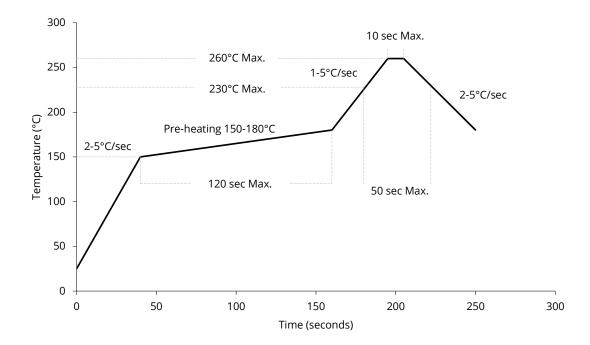
All dimensions in mm, tolerance unless mentioned is ±0.1mm.





Reflow profile

Soldering ramp-up time (Pb-FREE).



Note: Soldering paste with the melting point at 230°C is recommended.

SMT instruction

Problems caused by improper selection of collet

Choosing the right collet is important in ensuring product quality after SMT. LEDs are different from other electronic components, as they are not only concerned with electrical output but also optical output. This characteristic makes LEDs more fragile in the process of SMT. If the collet's lowering height is not well set, it will bring damage to the gold wire at the time of collet's pick-and-place process which can cause the LED to not illuminate, flicker or contribute to other quality problems, some of which may not be immediately detectable.

Collet selection

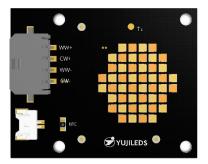
During SMT, please choose the appropriate collet in order to avoid damage the gold wire inside the LED or insufficient suction. Setting the height of the collet is crucial in order to avoid damage to the top view SMD. If the collet setting is set to too low of an altitude, the collet will press down on the SMD, causing damage or breakage to the encapsulant and cause distortion or breakage of the gold wire.

Other notes of caution

- No pressure should be exerted to the epoxy shell of the SMD under high temperature.
- Do not scratch or wipe the lens since the lens and gold wire inside are rather fragile and cross out easy to
- LED should be used as soon as possible when being taken out of the original package, and should be stored in anti-moisture and anti-ESD package.
- This usage and handling instructions are for reference only.

Specification

(Chip-on-Board bicolor / Rated 100W; Max 240W / Bicolor)



Ordering information

PRODUCT CODE	ССТ	CHROMATICITY BINS
B3220001.26	• 2700K	27L, 27R
B3220001.20	○ 6500K	65L, 65R

Characteristics

LED electrical-optical characteristics ($T_A = 25$ °C, 1400mA, rated power)

PARAMETER	SYMBOL		VALUE		UNIT	TOLERANCE
PARAMETER	STIMBUL	MIN.	TYP.	MAX.	UNII	TOLERANCE
Forward voltage	V_{F}	33	-	41	V	-
Luminous flux	• Ф _{2700К}	=	3100	-	– Im	
Luminous nux	○ Ф _{6500К}	=	3900	-	1111	- -
Correlated color	 CCT_{2700K} 	2540	2700	2860	– к	
temperature ⁽¹⁾	○ CCT _{6500K}	6000	6500	7000	– ĸ	-
Color rendering index	Ra	95 ⁽²⁾	-	=	-	±1
TCS R9 (CRI red)	R9	-	90	-	-	-
Fidelity index ⁽³⁾	Rf	-	92	-	-	-
Gamut index ⁽³⁾	Rg	=	100	=	-	-
TLCI 2012 ⁽⁴⁾	-	=	97	-	-	-
SSI ⁽⁵⁾	SSI _{2700K}	-	87	-	-	-
331**	SSI _{6500K}	=	67	=	-	-
Reverse current	I _r	=	-	10	μΑ	±0.1 (V _r = 5V)
View angle	$2\theta_{1/2}$	-	120	-	Deg	±5
Thermal resistance	$R_{\theta JS}$	=	0.7(6)	=	°C/W	-

- (1). Yujileds® promises the chromaticity coordinate tolerance of ±0.0015 (CIE 1931 x,y) based on Yuji standard equipment shall prevail.
- (2). Typical Ra = 95 at 6500K.
- (3). Defined by the IES TM-30-18 method, this data is for trial.
- (4). Defined by the EBU, TLCI is the abbreviation of Television Lighting Consistency Index, this data is for trial.
- (5). Defined by the Academy of Motion Picture Arts and Sciences, this data is for trial.
- (6). This data is for reference only.

Absolute maximum ratings ($T_A = 25$ °C)

PARAMETER	SYMBOL	LIMIT	UNIT
Power Consumption	P_D	120	W
DC Forward Current (pulsed) ⁽¹⁾	I _{Fp}	3.2 ⁽²⁾	A
DC Forward Current	I _F	3.0	A
Reverse Voltage	V_R	60	V
Case Temperature ⁽³⁾	Ts	105	°C

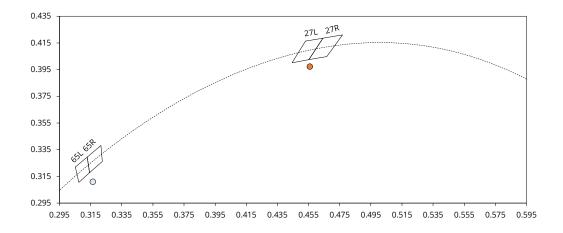
- (1). Pulse width \leq 0.1ms, duty \leq 1/10.
- (2). Theoretical data.
- (3). See page Mechanical dimension.

Chromaticity group and diagram

Chromaticity bins & coordinates

CCT / COLOR	BIN	CIE 1931 COORDINATES							
		X0	YO	X1	Y1	X2	Y2	ХЗ	Y3
• 2700K	27R	0.4642	0.4185	0.4552	0.4025	0.4667	0.4047	0.4768	0.4210
	27L	0.4530	0.4164	0.4444	0.4001	0.4552	0.4025	0.4642	0.4185
○ 6500K	65R	0.3128	0.3295	0.3143	0.3178	0.3225	0.3262	0.3216	0.3382
	65L	0.3052	0.3220	0.3074	0.3105	0.3143	0.3178	0.3128	0.3295

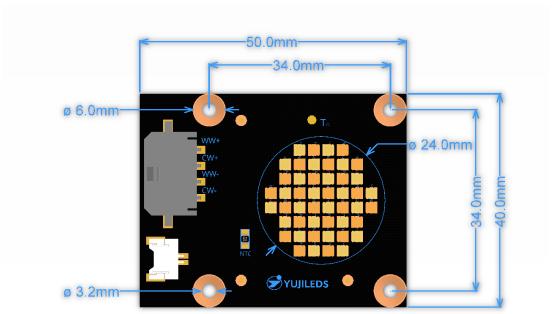
CIE 1931 diagram



Mechanical dimension

Package layout

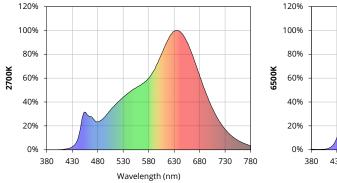
All dimensions in mm, tolerance unless mentioned is ±0.1mm.

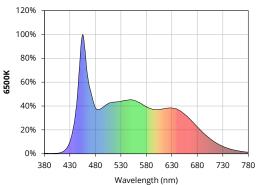


Characteristic graph

Typical spectral power distribution (normalized)

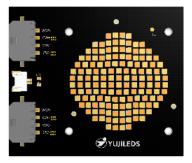
All characteristic curves are for reference only and not guaranteed.





Specification

(Chip-on-Board bicolor / Rated 300W; Max 720W / Bicolor)



Ordering information

PRODUCT CODE	ССТ	CHROMATICITY BINS
D2220002.26	• 2700K	27L, 27R
B3220003.26	○ 6500K	65L, 65R

Characteristics

LED electrical-optical characteristics (T_A = 25°C, 4000mA, rated power)

PARAMETER	SYMBOL -	VALUE			- UNIT	TOLERANCE
PARAMETER		MIN.	TYP.	MAX.	UNII	TOLERANCE
Forward voltage	V_{F}	33	-	41	V	-
Luminous flux	• Ф _{2700К}	=	10800	-	– lm	-
Luminous nux	○ Ф _{6500К}	=	13800	-		
Correlated color	 CCT_{2700K} 	2540	2700	2860	– к	-
temperature ⁽¹⁾	○ CCT _{6500K}	6000	6500	7000		
Color rendering index	Ra	95 ⁽²⁾	-	=	-	±1
TCS R9 (CRI red)	R9	-	90	-	-	-
Fidelity index ⁽³⁾	Rf	-	92	-	-	-
Gamut index ⁽³⁾	Rg	=	100	=	-	-
TLCI 2012 ⁽⁴⁾	-	=	97	=	-	-
SSI ⁽⁵⁾	SSI _{2700K}	=	87	=	-	-
331 ^e ,	SSI _{6500K}	-	67	-	-	-
Reverse current	I _r	=	-	10	μΑ	±0.1 (V _r = 60V)
View angle	$2\theta_{1/2}$	-	120	-	Deg	±5
Thermal resistance	$R_{\theta JS}$	=	0.7(6)	=	°C/W	-

- (1). Yujileds® promises the chromaticity coordinate tolerance of ±0.0015 (CIE 1931 x,y) based on Yuji standard equipment shall prevail.
- (2). Typical Ra = 95 at 6500K.
- (3). Defined by the IES TM-30-18 method, this data is for trial.
- (4). Defined by the EBU, TLCI is the abbreviation of Television Lighting Consistency Index, this data is for trial.
- (5). Defined by the Academy of Motion Picture Arts and Sciences, this data is for trial.
- (6). This data is for reference only.

Absolute maximum ratings ($T_A = 25$ °C)

PARAMETER	SYMBOL	LIMIT	UNIT
Power Consumption	P_D	360	W
DC Forward Current (pulsed) ⁽¹⁾	I _{Fp}	9.6 ⁽²⁾	A
DC Forward Current	I _F	9.0	A
Reverse Voltage	V_R	60	V
Case Temperature ⁽³⁾	Ts	105	°C

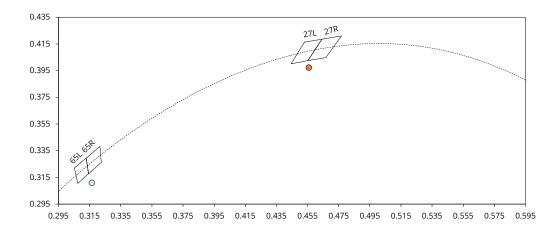
- (1). Pulse width \leq 0.1ms, duty \leq 1/10.
- (2). Theoretical data.
- (3). See page Mechanical dimension.

Chromaticity group and diagram

Chromaticity bins & coordinates

CCT / COLOR	OR BIN			CIE 1931 COORDINATES					
CCI / COLOR	C DIN	X0	YO	X1	Y1	X2	Y2	ХЗ	Y3
• 2700K	27R	0.4642	0.4185	0.4552	0.4025	0.4667	0.4047	0.4768	0.4210
2/UUK	27L	0.4530	0.4164	0.4444	0.4001	0.4552	0.4025	0.4642	0.4185
○ 6500K	65R	0.3128	0.3295	0.3143	0.3178	0.3225	0.3262	0.3216	0.3382
○ 6500K	65L	0.3052	0.3220	0.3074	0.3105	0.3143	0.3178	0.3128	0.3295

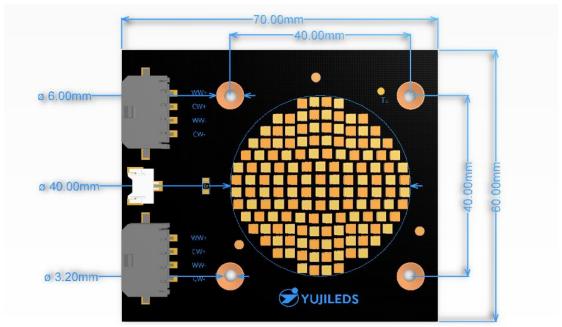
CIE 1931 diagram



Mechanical dimension

Package layout

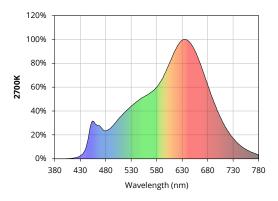
All dimensions in mm, tolerance unless mentioned is ±0.1mm.

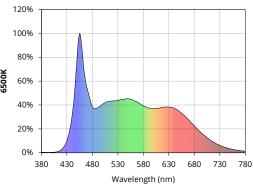


Characteristic graph

Typical spectral power distribution (normalized)

All characteristic curves are for reference only and not guaranteed.





Specification

(Chip-on-Board bicolor / Rated 500W; Max 1440W / Bicolor)



Ordering information

PRODUCT CODE	ССТ	CHROMATICITY BINS	
D222000E 26	• 2700K	27L, 27R	
B3220005.26	O 6500K	65L, 65R	

Characteristics

LED electrical-optical characteristics (T_A = 25°C, 8400mA, rated power)

PARAMETER	SYMBOL		VALUE			TOLERANCE
PARAMETER	STWBOL	MIN.	TYP.	MAX.	- UNIT	TOLERANCE
Forward voltage	V_{F}	33	-	41	٧	-
Luminous flux	• Ф _{2700К}	-	20000	-	– Im	
Luminous nux	О Ф _{6500К}	-	25600	-		=
Correlated color	 CCT_{2700K} 	2540	2700	2860	– к	
temperature ⁽¹⁾	○ CCT _{6500K}	6000	6500	7000	— К	-
Color rendering index	Ra	95 ⁽²⁾	-	-	-	±1
TCS R9 (CRI red)	R9	-	90	-	-	-
Fidelity index ⁽³⁾	Rf	-	92	-	-	-
Gamut index ⁽³⁾	Rg	-	100	-	-	-
TLCI 2012 ⁽⁴⁾	-	-	97	-	-	-
SSI ⁽⁵⁾	SSI _{2700K}	-	87	-	-	-
221°	SSI _{6500K}	-	67	-	-	-
Reverse current	I _r	-	-	10	μΑ	±0.1 (V _r = 60V)
View angle	2θ _{1/2}	-	120	-	Deg	±5
Thermal resistance	$R_{\theta JS}$	-	0.7(6)	-	°C/W	-

- (1). Yujileds® promises the chromaticity coordinate tolerance of ±0.0015 (CIE 1931 x,y) based on Yuji standard equipment shall prevail.
- (2). Typical Ra = 95 at 6500K.
- (3). Defined by the IES TM-30-18 method, this data is for trial.
- (4). Defined by the EBU, TLCI is the abbreviation of Television Lighting Consistency Index, this data is for trial.
- (5). Defined by the Academy of Motion Picture Arts and Sciences, this data is for trial.
- (6). This data is for reference only.

Absolute maximum ratings ($T_A = 25$ °C)

PARAMETER	SYMBOL	LIMIT	UNIT
Power Consumption	P_D	720	W
DC Forward Current (pulsed) ⁽¹⁾	I _{Fp}	19.2 ⁽²⁾	A
DC Forward Current	I _F	18.0	A
Reverse Voltage	V_R	60	V
Case Temperature ⁽³⁾	Ts	105	°C

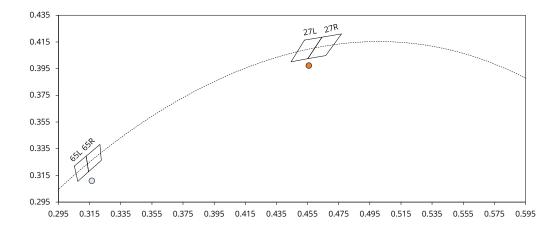
- (1). Pulse width \leq 0.1ms, duty \leq 1/10.
- (2). Theoretical data.
- (3). See page Mechanical dimension.

Chromaticity group and diagram

Chromaticity bins & coordinates

CCT / COLOR	OR BIN			CIE 1931 COORDINATES					
CCI / COLOR	C DIN	X0	YO	X1	Y1	X2	Y2	ХЗ	Y3
• 2700K	27R	0.4642	0.4185	0.4552	0.4025	0.4667	0.4047	0.4768	0.4210
2/UUK	27L	0.4530	0.4164	0.4444	0.4001	0.4552	0.4025	0.4642	0.4185
○ 6500K	65R	0.3128	0.3295	0.3143	0.3178	0.3225	0.3262	0.3216	0.3382
○ 6500K	65L	0.3052	0.3220	0.3074	0.3105	0.3143	0.3178	0.3128	0.3295

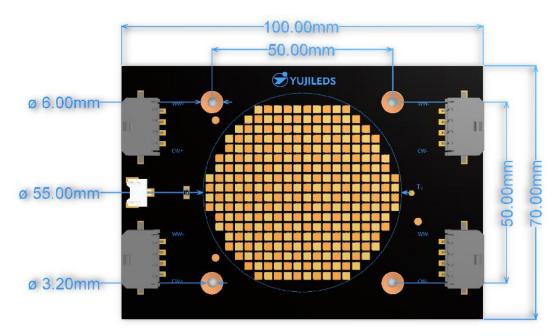
CIE 1931 diagram



Mechanical dimension

Package layout

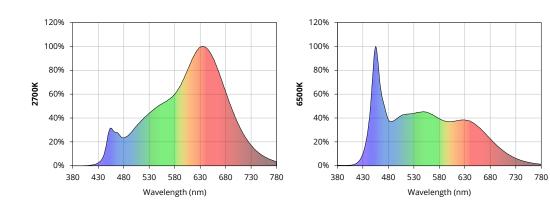
All dimensions in mm, tolerance unless mentioned is ±0.1mm.



Characteristic graph

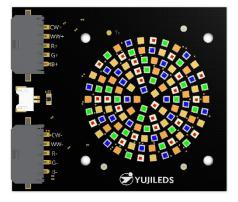
Typical spectral power distribution (normalized)

All characteristic curves are for reference only and not guaranteed.



Specification

(Chip-on-Board / Rated 200W; Max 540W / RGBWW)



Ordering information

PRODUCT CODE	CCT / COLOR	CHROMATICITY BINS / DOMINANT WAVELEGNTH
	2700K	27L, 27R
	○ 6500K	65L, 65R
B3220002.01	Blue	B1
	Green	G1, G2
	• Red	R1, R2

Characteristics

LED electrical-optical characteristics (T_A = 25°C, 1400mA, white light, rated power)

DADAMETED	SYMBOL	VALUE			UNIT	TOUEDANICE
PARAMETER	STIMBOL	MIN.	TYP.	MAX.	UNII	TOLERANCE
Forward voltage	V_{F}	33	-	41	٧	-
Luminous flux	Φ_{2700K}	-	3600	-	las	
Luminous flux	О Ф _{6500К}	-	4600	-	– lm	-
Correlated color	 CCT_{2700K} 	2540	2700	2860	1/	
temperature ⁽¹⁾	○ CCT _{6500K}	6000	6500	7000	– K	-
Color rendering index	Ra	95 ⁽²⁾	-	-	-	±1
TCS R9 (CRI red)	R9	-	90	-	-	-
Fidelity index ⁽³⁾	Rf	-	92	-	-	-
Gamut index ⁽³⁾	Rg	-	100	-	-	-
TLCI 2012 ⁽⁴⁾	-	-	97	-	-	-
CC1(5)	SSI _{2700K}	-	87	-	-	-
SSI ⁽⁵⁾	SSI _{6500K}	-	67	-	-	-
Reverse current	l _r	-	-	10	μA	±0.1 (V _r = 60V)
View angle	2θ _{1/2}	-	120	-	Deg	±5
Thermal resistance	$R_{\theta JS}$	-	0.7(6)	-	°C/W	-

- (1). Yujileds $^{\circ}$ promises the chromaticity coordinate tolerance of ± 0.0015 (CIE 1931 x,y) based on Yuji standard equipment shall prevail.
- (2). Typical Ra = 95 at 6500K.
- (3). Defined by the IES TM-30-18 method, this data is for trial.
- (4). Defined by the EBU, TLCI is the abbreviation of Television Lighting Consistency Index, this data is for trial.
- (5). Defined by the Academy of Motion Picture Arts and Sciences, this data is for trial.
- (6). This data is for reference only.

LED Electrical-optical characteristics (T_A = 25°C, 1400mA, single color, rated power)

COLOR	DADAMETED	CVMPOL		VALUE			
COLOR	PARAMETER	SYMBOL -	MIN.	TYP.	MAX.	UNIT	
-	Forward voltage	V_{F}	33	-	41	٧	
	Luminous flux	Ф	-	840	-	lm	
	Dominant wavelength ⁽¹⁾	λ_{D}	455	-	460	nm	
Blue	Peak wavelength ⁽¹⁾	$\lambda_{ extsf{P}}$	-	452	-	nm	
	View angle	$2\theta_{1/2}$	-	120	-	Deg	
	Reverse current	I_r	-	-	$10 (V_r = 60V)$	μΑ	
	Thermal resistance	$R_{\theta JS}$	-	0.7(2)	-	°C/W	
	Forward voltage	V_{F}	27	-	35	٧	
	Luminous flux	Ф	-	4950	-	lm	
	Dominant wavelength ⁽¹⁾	λ_{D}	520	-	535	nm	
Green	Peak wavelength ⁽¹⁾	$\lambda_{ extsf{P}}$	-	520	-	nm	
	View angle	$2\theta_{1/2}$	-	120	-	Deg	
	Reverse current	l _r	-	-	$10 (V_r = 60V)$	μΑ	
	Thermal resistance	R_{\thetaJS}	-	0.7(2)	-	°C/W	
	Forward voltage	V_{F}	21	-	33	٧	
	Luminous flux	Ф	-	1800	-	lm	
	Dominant wavelength ⁽¹⁾	λ_{D}	617	-	624	nm	
• Red	Peak wavelength ⁽¹⁾	λ_{P}	-	630	-	nm	
	View angle	2θ _{1/2}	-	120	-	Deg	
	Reverse current	l _r	-	-	20 (V _r = 120V)	μΑ	
	Thermal resistance	$R_{\theta JS}$	-	0.7(2)	-	°C/W	

^{(1).} Yujileds $^{\circ}$ promises the chromaticity coordinate tolerance of ± 0.0015 (CIE 1931 x,y) based on Yuji standard equipment shall prevail.

^{(2).} This data is for reference only.

Absolute maximum ratings ($T_A = 25$ °C, white light, blue)

PARAMETER	SYMBOL	LIMIT	UNIT
Power Consumption	P_D	120	W
DC Forward Current (pulsed) ⁽¹⁾	I _{Fp}	3.2 ⁽²⁾	A
DC Forward Current	I _F	3.0	A
Reverse Voltage	V_R	60	V
Case Temperature ⁽³⁾	Ts	105	°C

Absolute maximum ratings (T_A = 25°C, green)

PARAMETER	SYMBOL	LIMIT	UNIT
Power Consumption	P_D	100	W
DC Forward Current (pulsed) ⁽¹⁾	I _{Fp}	3.2 ⁽²⁾	А
DC Forward Current	I _F	3.0	А
Reverse Voltage	V_R	60	V
Case Temperature ⁽³⁾	Ts	105	°C

Absolute maximum ratings (T_A = 25°C, red)

PARAMETER	SYMBOL	LIMIT	UNIT
Power Consumption	P_D	72	W
DC Forward Current (pulsed) ⁽¹⁾	I _{Fp}	3.2 ⁽²⁾	А
DC Forward Current	I _F	3.0	А
Reverse Voltage	V_R	120	V
Case Temperature ⁽³⁾	Ts	85	°C

- (1). Pulse width \leq 0.1ms, duty \leq 1/10.
- (2). Theoretical data.
- (3). See page Mechanical dimension.

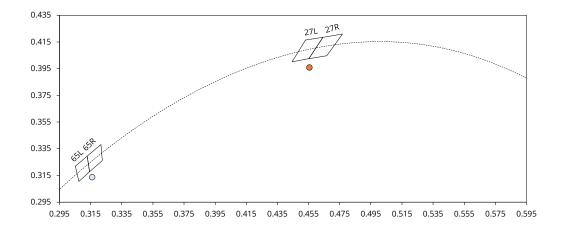
١

Chromaticity group and diagram

Chromaticity bins & coordinates (TA = 25°C, 1400mA)

CCT / COLOR	BIN			C	IE 1931 CO	ORDINATE	S		
CCI / COLOR	DIIN	X0	YO	X1	Y1	X2	Y2	ХЗ	Y3
• 2700K	27R	0.4642	0.4185	0.4552	0.4025	0.4667	0.4047	0.4768	0.4210
2700K	27L	0.4530	0.4164	0.4444	0.4001	0.4552	0.4025	0.4642	0.4185
○ 6500K	65R	0.3128	0.3295	0.3143	0.3178	0.3225	0.3262	0.3216	0.3382
○ 6500K	65L	0.3052	0.3220	0.3074	0.3105	0.3143	0.3178	0.3128	0.3295

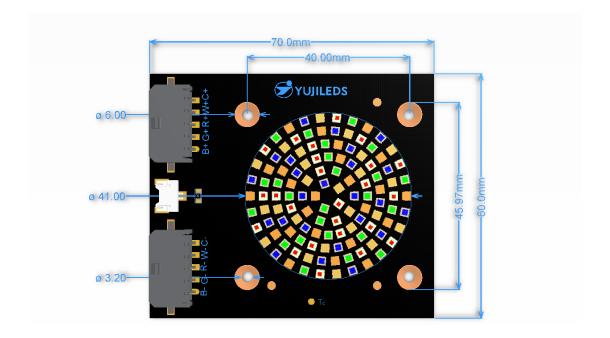
CIE 1931 diagram



Mechanical dimension

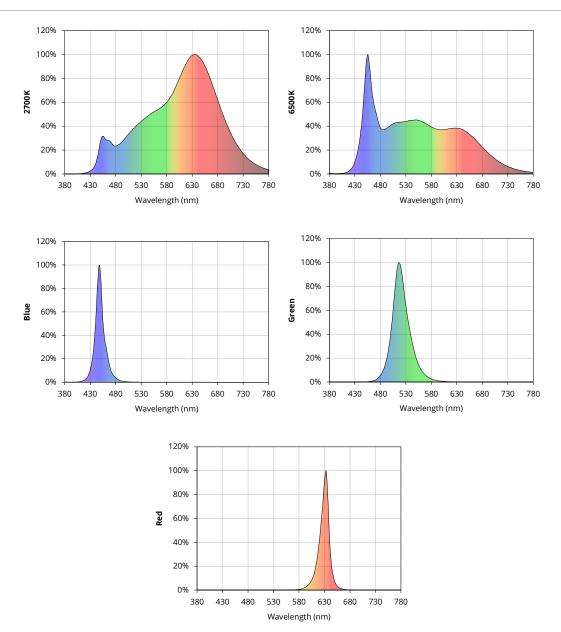
Package layout

All dimensions in mm, tolerance unless mentioned is ±0.1mm.



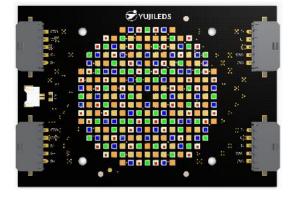
Typical spectral power distribution (normalized)

All characteristic curves are for reference only and not guaranteed.



Specification

(Chip-on-Board / Rated 500W; Max 1050W / RGBWW)



Ordering information

PRODUCT CODE	CCT / COLOR	CHROMATICITY BINS / DOMINANT WAVELEGNTH
	• 2700K	27L, 27R
	O 6500K	65L, 65R
B3220004.01	• Blue	B1
	Green	G1, G2
	• Red	R1, R2

Characteristics

LED electrical-optical characteristics (T_A = 25°C, 2800mA, white light, rated power)

DADAMETED	CVMPOL		VALUE		LINUT	TOLEDANICE
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	- UNIT	TOLERANCE
Forward voltage	V_{F}	33	-	41	٧	-
Luminous flux	Φ_{2700K}	-	6700	-	– Im	
Luminous nux	О Ф _{6500К}	-	8600	-		-
Correlated color	 CCT_{2700K} 	2540	2700	2860	– К	
temperature ⁽¹⁾	○ CCT _{6500K}	6000	6500	7000	– K	-
Color rendering index	Ra	95 ⁽²⁾	-	-	-	±1
TCS R9 (CRI red)	R9	-	90	-	-	-
Fidelity index ⁽³⁾	Rf	-	92	-	-	-
Gamut index ⁽³⁾	Rg	-	100	-	-	-
TLCI 2012 ⁽⁴⁾	-	-	97	-	-	-
SSI ⁽⁵⁾	SSI _{2700K}	-	87	-	-	-
221 ₆₄	SSI _{6500K}	-	67	-	-	-
Reverse current	l _r	-	-	10	μΑ	±0.1 (V _r = 60V)
View angle	2θ _{1/2}	-	120	-	Deg	±5
Thermal resistance	$R_{\theta JS}$	-	0.7(6)	-	°C/W	-

- (1). Yujileds $^{\circ}$ promises the chromaticity coordinate tolerance of ± 0.0015 (CIE 1931 x,y) based on Yuji standard equipment shall prevail.
- (2). Typical Ra = 95 at 6500K.
- (3). Defined by the IES TM-30-18 method, this data is for trial.
- (4). Defined by the EBU, TLCI is the abbreviation of Television Lighting Consistency Index, this data is for trial.
- (5). Defined by the Academy of Motion Picture Arts and Sciences, this data is for trial.
- (6). This data is for reference only.

LED Electrical-optical characteristics (T_A = 25°C, 2200mA⁽¹⁾, single color)

COLOR	PARAMETER	SYMBOL -		UNIT		
		STWIBOL	MIN.	TYP.	MAX.	UNIT
	Forward voltage	V_{F}	33	-	41	V
	Luminous flux	Ф	-	1250	-	lm
	Dominant wavelength ⁽²⁾	λ_{D}	455	-	460	nm
Blue	Peak wavelength ⁽²⁾	λ_{P}	-	452	-	nm
	View angle	2θ _{1/2}	-	120	-	Deg
	Reverse current	I _r	-	-	10 (V _r = 60V)	μΑ
	Thermal resistance	$R_{\theta JS}$	-	0.7(3)	-	°C/W

LED Electrical-optical characteristics (T_A = 25°C, 2800mA, single color, rated power, continued)

COLOR	PARAMETER	SYMBOL -		UNIT		
COLOR	PARAMETER	STINIBUL	MIN.	TYP.	MAX.	UNIT
	Forward voltage	V_{F}	27	=	35	٧
	Luminous flux	Ф	-	9000	-	lm
	Dominant wavelength(2)	λ_{D}	520	=	535	nm
Green	Peak wavelength ⁽²⁾	λ_{P}	-	520	-	nm
	View angle	$2\theta_{1/2}$	-	120	-	Deg
	Reverse current	l _r	-	=	10 ($V_r = 60V$)	μΑ
	Thermal resistance	$R_{\theta JS}$	-	0.7(3)	-	°C/W
	Forward voltage	V_{F}	21	=	33	٧
• Green	Luminous flux	Ф	-	3300	-	lm
	Dominant wavelength(2)	λ_{D}	617	=	624	nm
Red	Peak wavelength ⁽²⁾	λ_{P}	-	630	-	nm
	View angle	$2\theta_{1/2}$	-	120	-	Deg
	Reverse current	I _r	-	-	20 (V _r = 120V)	μΑ
	Thermal resistance	$R_{\theta JS}$	-	0.7(3)	-	°C/W

- (1). The test current is limited by the measuring range of Yuji standard equipment and the rated current us 2800mA.
- (2). Yujileds® promises the chromaticity coordinate tolerance of ± 0.0015 (CIE 1931 x,y) based on Yuji standard equipment shall prevail.
- (3). This data is for reference only.

Absolute maximum ratings ($T_A = 25$ °C, white light, blue)

PARAMETER	SYMBOL	LIMIT	UNIT
Power Consumption	P_D	240	W
DC Forward Current (pulsed) ⁽¹⁾	I _{Fp}	6.4 ⁽²⁾	Α
DC Forward Current	I _F	6.0	A
Reverse Voltage	V _R	60	V
Case Temperature ⁽³⁾	T _s	105	°C

Absolute maximum ratings (T_A = 25°C, green)

PARAMETER	SYMBOL	LIMIT	UNIT
Power Consumption	P_D	200	W
DC Forward Current (pulsed) ⁽¹⁾	I _{Fp}	6.4 ⁽²⁾	А
DC Forward Current	l _F	6.0	А
Reverse Voltage	V_R	60	V
Case Temperature ⁽³⁾	Ts	105	°C

Absolute maximum ratings ($T_A = 25$ °C, red)

PARAMETER	SYMBOL	LIMIT	UNIT
Power Consumption	P_D	144	W
DC Forward Current (pulsed) ⁽¹⁾	I _{Fp}	6.4 ⁽²⁾	А
DC Forward Current	I _F	6.0	Α
Reverse Voltage	V_R	120	V
Case Temperature ⁽³⁾	T _s	85	°C

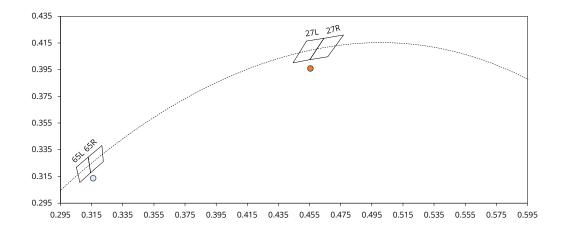
- (1). Pulse width \leq 0.1ms, duty \leq 1/10.
- (2). Theoretical data.
- (3). See page Mechanical dimension.

Chromaticity group and diagram

Chromaticity bins & coordinates (TA = 25°C, 2800mA)

CCT / COLOR	BIN			C	IE 1931 CO	ORDINATE	S		
CCI / COLOR	DIIN	X0	YO	X1	Y1	X2	Y2	ХЗ	Y3
• 2700K	27R	0.4642	0.4185	0.4552	0.4025	0.4667	0.4047	0.4768	0.4210
2700K	27L	0.4530	0.4164	0.4444	0.4001	0.4552	0.4025	0.4642	0.4185
○ 6500K	65R	0.3128	0.3295	0.3143	0.3178	0.3225	0.3262	0.3216	0.3382
○ 6500K	65L	0.3052	0.3220	0.3074	0.3105	0.3143	0.3178	0.3128	0.3295

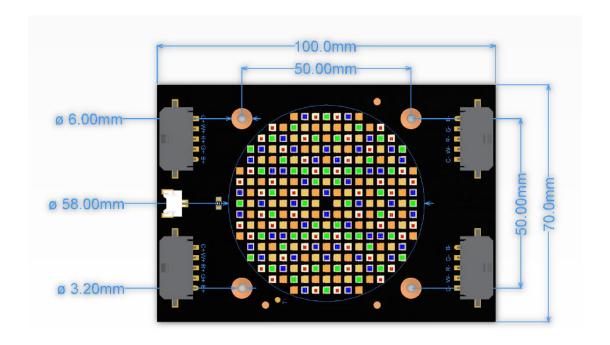
CIE 1931 diagram



Mechanical dimension

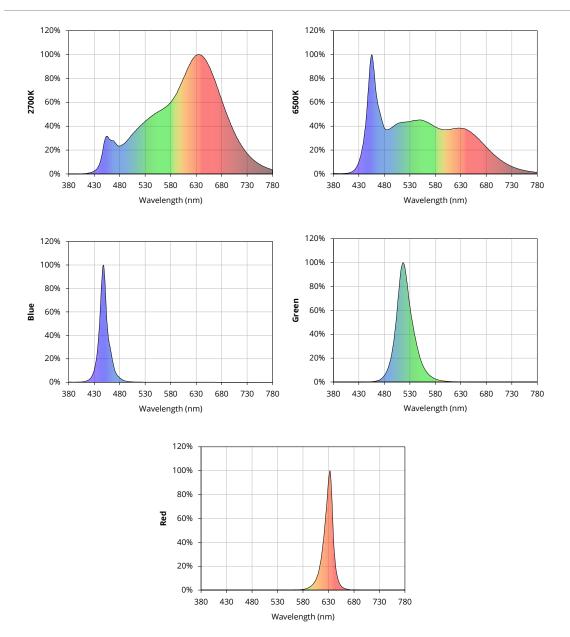
Package layout

All dimensions in mm, tolerance unless mentioned is ±0.1mm.



Typical spectral power distribution (normalized)

All characteristic curves are for reference only and not guaranteed.



Specification

(LED componant)



Ordering information

		CHROMATICITY BINS	
PRODUCT CODE	CCT / COLOR	1	VOLTAGE RANGE
		DOMINANT WAVELEGNTH	
P3220001.27	• 2700K	27L, 27R	0.2V
P3220001.65	○ 6500K	65L, 65R	0.2V
P3220001.01	Blue	B1	0.2V
P3220001.02	Cyan	C1, C2	0.2V
P3220001.03	Green	G1, G2	0.2V
P3220001.04	PC-lime	PCL1	0.2V
P3220001.05	PC-amber	PCA1	0.2V
P3220001.06	• Red	R1, R2	0.2V
P3220001.07	PC-red	PCR1	0.2V
P3220001.XX	- Custom	Custom	0.2V

LED electrical-optical characteristics (T_A = 25°C, 700mA, white light)

PARAMETER	SYMBOL -		VALUE		LINUT	TOLEDANICE
PARAMETER	STIMBUL	MIN.	TYP.	MAX.	V ±0.05 - Im - - K - - ±1	
Forward voltage	V_{F}	2.8	-	3.4	V	±0.05
Luminous flux	• Ф _{2700К}	165	175	185	Im	
Luminous nux	О Ф _{6500К}	210	225	240		-
Correlated color	 CCT_{2700K} 	2540	2700	2860	IZ.	
temperature ⁽¹⁾	○ CCT _{6500K}	6000	6500	7000	— қ	-
Color rendering index	Ra	95 ⁽²⁾	-	-	-	±1
TCS R9 (CRI red)	R9	-	90	-	-	-
Fidelity index ⁽³⁾	Rf	-	92	-	-	-
Gamut index ⁽³⁾	Rg	-	100	-	-	-
TLCI 2012 ⁽⁴⁾	-	-	97	-	-	-
SSI ⁽⁵⁾	SSI _{2700K}	-	87	-	-	-
22I ₀ ,	SSI _{6500K}	-	67	-	-	-
Reverse current	l _r	-	-	10	μΑ	±0.1 (V _r = 5V)
View angle	2θ _{1/2}	-	120	-	Deg	±5
Thermal resistance	$R_{\theta JS}$	-	0.7(6)	-	°C/W	-

- (1). Yujileds® promises the chromaticity coordinate tolerance of ±0.0015 (CIE 1931 x,y) based on Yuji standard equipment shall prevail.
- (2). Typical Ra = 95 at 6500K.
- (3). Defined by the IES TM-30-18 method, this data is for trial.
- (4). Defined by the EBU, TLCI is the abbreviation of Television Lighting Consistency Index, this data is for trial.
- (5). Defined by the Academy of Motion Picture Arts and Sciences, this data is for trial.
- (6). This data is for reference only.

LED Electrical-optical characteristics ($T_A = 25$ °C, 700mA, single color)

COLOR	PARAMETER	METER SYMBOL -		VALUE			
COLOR	PARAMETER	STIVIDOL	MIN.	TYP.	MAX.	UNIT	
	Forward voltage	V_{F}	2.8	-	3.4	V	
	Luminous flux	Ф	40	-	47	lm	
	Dominant wavelength ⁽¹⁾	λ_{D}	455	-	460	nm	
Blue	Peak wavelength ⁽¹⁾	λ_{P}	-	452	-	nm	
	View angle	$2\theta_{1/2}$	-	120	=	Deg	
	Reverse current	l _r	-	-	10 ($V_r = 5V$)	μΑ	
	Thermal resistance	$R_{\theta JS}$	-	0.7(2)	-	°C/W	

LED Electrical-optical characteristics (T_A = 25°C, 700mA, single color, continued)

				VALUE			
COLOR	PARAMETER	SYMBOL -	MIN.	TYP.	MAX.	UNIT	
	Forward voltage	V _F	2.5	2.8	3.2	V	
	Luminous flux	Ф	130	-	170	lm	
	Dominant wavelength ⁽¹⁾	$\lambda_{ extsf{D}}$	490	-	500	nm	
Cyan	Peak wavelength ⁽¹⁾	λ_{P}	-	493	-	nm	
	View angle	2θ _{1/2}	-	120	-	Deg	
	Reverse current	l _r	-	-	10 (V _r = 5V)	μΑ	
	Thermal resistance	$R_{\theta JS}$	-	0.7(2)	-	°C/W	
	Forward voltage	V_{F}	2.3	-	3.0	٧	
	Luminous flux	Ф	220	-	280	lm	
	Dominant wavelength ⁽¹⁾	λ_{D}	520	-	535	nm	
Green	Peak wavelength ⁽¹⁾	λ_{P}	-	520	-	nm	
	View angle	2θ _{1/2}	-	120	-	Deg	
	Reverse current	l _r	-	-	10 (V _r = 5V)	μΑ	
	Thermal resistance	R_{\thetaJS}	-	0.7(2)	-	°C/W	
	Forward voltage	V_{F}	2.8	-	3.4	٧	
	Luminous flux	PARAMETER SYMBOL MIN. TYP. MAX. rward voltage V _F 2.5 2.8 3.2 minous flux Φ 130 - 170 minant wavelength ⁽¹⁾ λ _P - 493 - aw wavelength ⁽¹⁾ λ _P - 493 - aw angle 20 _{1/2} - 120 - awa angle 20 _{1/2} - 10 (V _r = 5V) errad voltage V _F 2.3 - 3.0 minous flux Φ 220 - 280 mininant wavelength ⁽¹⁾ λ _D 520 - 535 ak wavelength ⁽¹⁾ λ _P - 520 - ewas angle 20 _{1/2} - 120 - ewas eurrent I _r - 0.7 ⁽²⁾ - ewas eurrent I _r - 550 - ewas eurrent I _r - 512 - ewas eurrent <td< th=""><th>lm</th></td<>	lm				
	Dominant wavelength ⁽¹⁾	λ_{D}	-	550	2.8 3.2 - 170 - 500 493 10 (V _r = 5V) 0.7 ⁽²⁾ - 3.0 - 280 - 535 520 - 120 10 (V _r = 5V) 0.7 ⁽²⁾ 3.4 - 405 550 - 3.4 - 405 550 - 120 10 (V _r = 5V) 0.7 ⁽²⁾ - 3.4 - 185 550 - 120 10 (V _r = 5V) 0.7 ⁽²⁾ 2.8 - 120 10 (V _r = 5V) 0.7 ⁽²⁾ 3.4 - 185 598 - 605 - 120 10 (V _r = 5V) 0.7 ⁽²⁾ - 2.8 - 10 (V _r = 5V) 0.7 ⁽²⁾ 2.8 - 105 - 624 630 - 120 120 - 624	nm	
PC-lime	Peak wavelength ⁽¹⁾	λ_{P}	-	512	-	nm	
	View angle	2θ _{1/2}	-	120	-	Deg	
	Reverse current	l _r	-	-	10 (V _r = 5V)	μΑ	
	Thermal resistance	$R_{\theta JS}$	-	0.7(2)	-	°C/W	
	Forward voltage	V_{F}	2.8	-	3.4	٧	
	Luminous flux	Ф	165	-	185	lm	
	Dominant wavelength ⁽¹⁾	λ_{D}	-	598	-	nm	
PC-amber	Peak wavelength ⁽¹⁾	λ_{P}	-	605	-	nm	
	View angle	2θ _{1/2}	-	120	-	Deg	
	Reverse current	l _r	-	-	10 (V _r = 5V)	μΑ	
	Thermal resistance	$R_{\theta JS}$	-	0.7(2)	-	°C/W	
	Forward voltage	V_{F}	1.8	-	2.8	٧	
	Luminous flux	Ф	75	-	105	lm	
	Dominant wavelength ⁽¹⁾	$\lambda_{ extsf{D}}$	617	-	624	nm	
Red	Peak wavelength ⁽¹⁾	λ_{P}	-	630	-	nm	
	View angle	2θ _{1/2}	-	120	-	Deg	
	Reverse current	l _r	-	-	20 (V _r = 10V)	μA	
	Thermal resistance	$R_{\theta JS}$	-	0.7(2)	-	°C/W	
-							

LED Electrical-optical characteristics (T_A = 25°C, 700mA, single color, continued)

COLOR	PARAMETER	SYMBOL -		UNIT		
COLOR	PARAMETER	STIVIBUL	MIN.	TYP.	MAX. 3.4 48 10 (V _r = 5V)	o i i i
• PC-red	Forward voltage	V_{F}	2.8	-	3.4	V
	Luminous flux	Ф	40	-	48	lm
	Dominant wavelength ⁽¹⁾	λ_{D}	-	618	-	nm
	Peak wavelength ⁽¹⁾	λ_{P}	-	651	-	nm
	View angle	2θ _{1/2}	-	120	-	Deg
	Reverse current	l _r	-	-	10 (V _r = 5V)	μΑ
	Thermal resistance	$R_{\theta JS}$	-	0.7(2)	-	°C/W

- (1). Yujileds® promises the chromaticity coordinate tolerance of ± 0.0015 (CIE 1931 x,y) based on Yuji standard equipment shall prevail.
- (2). This data is for reference only.

Absolute maximum ratings (T_A = 25°C, cyan, white light, PC-lime, PC-amber, PC-red, blue, green)

PARAMETER	SYMBOL	LIMIT	UNIT
Power Consumption	P_D	5000	mW
DC Forward Current (pulsed) ⁽¹⁾	I _{Fp}	1600 ⁽²⁾	mA
DC Forward Current	I _F	1500	mA
Reverse Voltage	V _R	5	V
Junction Temperature	T _j	150	°C
Solder Point Temperature ⁽³⁾	Ts	105	°C
Operating Temperature	T_{opr}	-40 ~ +85	°C
Storage Temperature	T_{stg}	-30 ~ +85	°C
Soldering Temperature	T_{sol}	260 ± 5	°C
Reflow Cycles Allowed	-	2	-

Absolute maximum ratings ($T_A = 25$ °C, red)

PARAMETER	SYMBOL	LIMIT	UNIT
Power Consumption	P_D	3000	mW
DC Forward Current (pulsed) ⁽¹⁾	I _{Fp}	1600 ⁽²⁾	mA
DC Forward Current	I _F	1500	mA
Reverse Voltage	V_R	10	V
Junction Temperature	T _j	115	°C
Solder Point Temperature ⁽³⁾	Ts	85	°C
Operating Temperature	T_{opr}	-25 ~ +85	°C
Storage Temperature	T_{stg}	-35 ~ +85	°C
Soldering Temperature	T_{sol}	260 ± 5	°C
Reflow Cycles Allowed	-	2	-

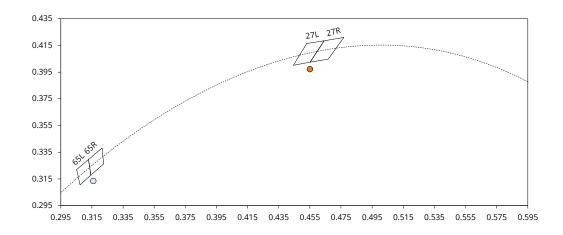
- (1). Pulse width ≤ 0.1 ms, duty $\leq 1/10$.
- (2). Theoretical data.
- (3). See page Package material and dimension.

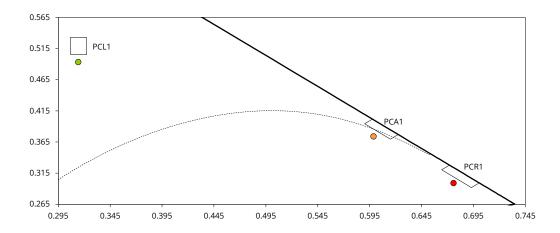
Chromaticity group and diagram

Chromaticity bins & coordinates (T_A = 25°C, 700mA, white light, PC-lime, PC-amber, PC-red)

CCT / COLOR	DIM	CIE 1931 COORDINATES							
	BIN	X0	Y0	X1	Y1	X2	Y2	ХЗ	Y3
• 2700K	27R	0.4642	0.4185	0.4552	0.4025	0.4667	0.4047	0.4768	0.4210
• 2700K	27L	0.4530	0.4164	0.4444	0.4001	0.4552	0.4025	0.4642	0.4185
○ 6500K	65R	0.3128	0.3295	0.3143	0.3178	0.3225	0.3262	0.3216	0.3382
○ 6500K	65L	0.3052	0.3220	0.3074	0.3105	0.3143	0.3178	0.3128	0.3295
PC-lime	PCL1	0.3068	0.5329	0.3068	0.5054	0.3223	0.5054	0.3223	0.5329
PC-amber	PCA1	0.5977	0.4018	0.5902	0.3943	0.6150	0.3695	0.6225	0.3770
• PC-red	PCR1	0.6719	0.3279	0.6644	0.3204	0.6931	0.2918	0.7006	0.2993

CIE 1931 diagram





Chromaticity group and diagram

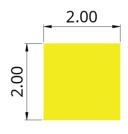
Dominant wavelength bins (T_A = 25°C, 700mA, blue, cyan, green, red)

	BIN	WAVELENGT	WAVELENGTH		
COLOR		MIN.	MAX.	UNIT	
Blue	B1	455	457.5	nm	
	C1	490	495	nm	
Cyan	C2	495	500	nm	
0.5	G1	522	527	nm	
Green	G2	527	532	nm	
• Red	R1	615	618	nm	
	R2	618	621	nm	

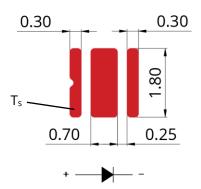
Package material and dimension

Package layout

All dimensions in mm, tolerance unless mentioned is ±0.1mm.







CCT / COLOR	Height (mm)
2700K	0.75
6500K	0.72
Blue	0.87
Cyan	0.88
Green	0.88
PC-lime PC-lime	0.80
PC-amber	0.91
PC-red	0.88
Red	0.86

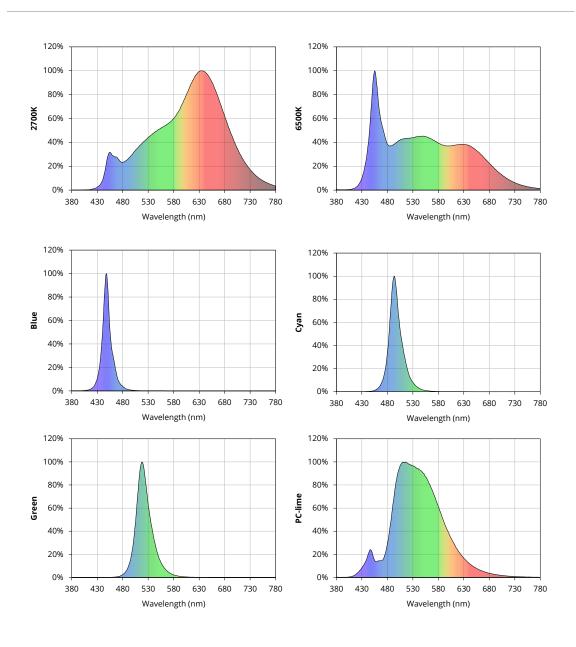
Package materials (white light, PC-lime, PC-amber, PC-red)

ITEM	DESCRIPTION
Die material	InGaN
Lead frame material	AIN
Encapsulant resin material	Silicon + Phosphor

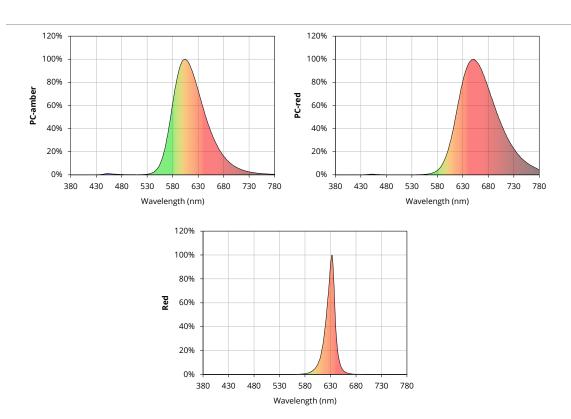
Package materials (blue, cyan, green, red)

ITEM	BLUE	CYAN	GREEN	RED		
Die material	InGaN	InGaN	InGaN	AlGaInP		
Lead frame material	AIN					
Encapsulant resin material		Silicon				

Typical spectral power distribution (normalized)



Typical spectral power distribution (normalized) (Continued)

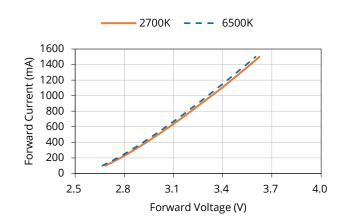


Forward current (white light)

All characteristic curves are for reference only and not guaranteed.

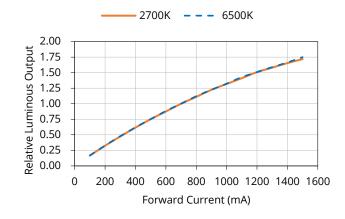
Vs. forward voltage

 $(T_A = 25^{\circ}C)$



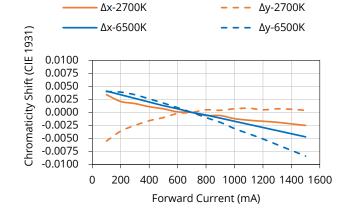
Vs. relative luminous flux

 $(T_A = 25^{\circ}C)$



Vs. relative chromaticity shift

 $(T_A = 25^{\circ}C)$

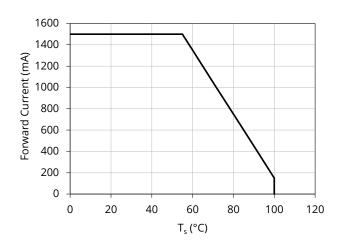


Forward current (white light) (continued)

All characteristic curves are for reference only and not guaranteed.

Derating based on solder point

Note: De-rating curves are meant for recommendation only and are not meant to provide guarantees of product stability and longevity.

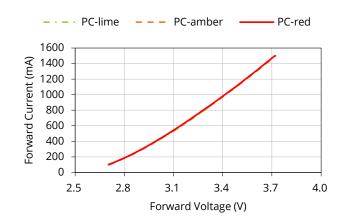


Forward current (PC-lime, PC-amber, PC-red)

All characteristic curves are for reference only and not guaranteed.

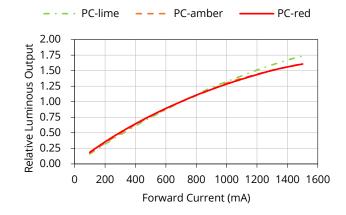
Vs. forward voltage

 $(T_A = 25^{\circ}C)$



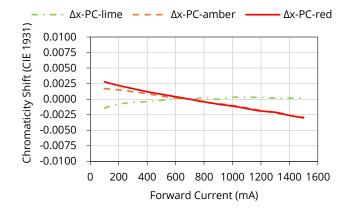
Vs. relative luminous flux

 $(T_A = 25^{\circ}C)$



Vs. relative chromaticity shift

 $(T_A = 25^{\circ}C)$

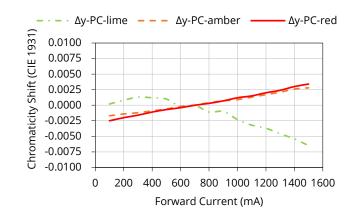


Forward current (PC-lime, PC-amber, PC-red) (continued)

All characteristic curves are for reference only and not guaranteed.

Vs. relative chromaticity shift

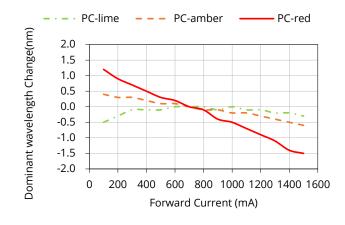
 $(T_A = 25^{\circ}C)$



Vs. relative dominant

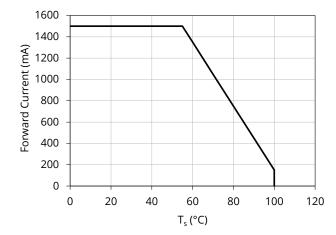
wavelength shift

 $(T_A = 25^{\circ}C)$



Derating based on solder point

Note: De-rating curves are meant for recommendation only and are not meant to provide guarantees of product stability and longevity.

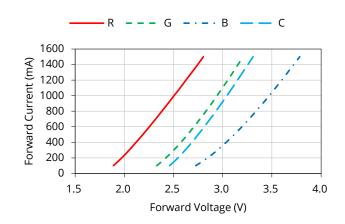


Forward current (B = blue, C = cyan, G = green, R = red)

All characteristic curves are for reference only and not guaranteed.

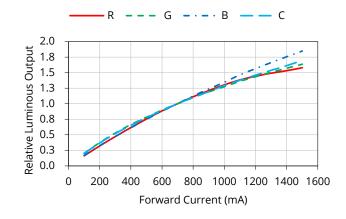
Vs. forward voltage

 $(T_A = 25^{\circ}C)$



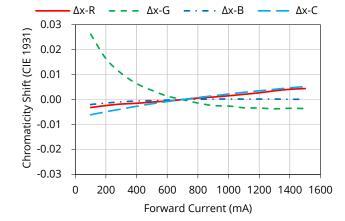
Vs. relative luminous flux

 $(T_A = 25^{\circ}C)$



Vs. relative chromaticity shift

 $(T_A = 25^{\circ}C)$

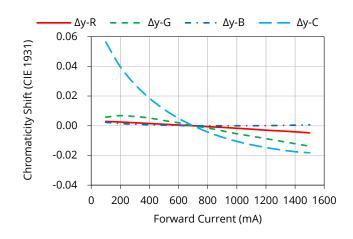


Forward current (B = blue, C = cyan, G = green, R = red) (continued)

All characteristic curves are for reference only and not guaranteed.

Vs. relative chromaticity shift

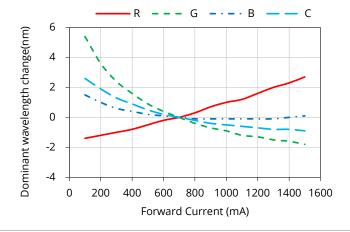
 $(T_A = 25^{\circ}C)$



Vs. relative dominant

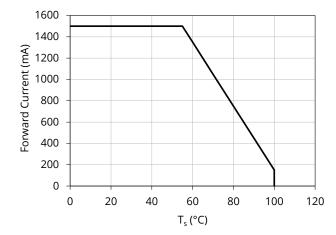
wavelength shift

 $(T_A = 25^{\circ}C)$



Derating based on solder point

Note: De-rating curves are meant for recommendation only and are not meant to provide guarantees of product stability and longevity.

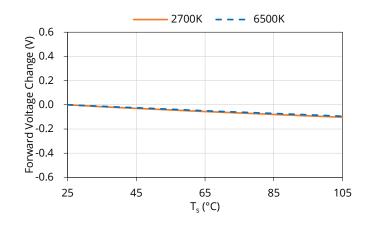


Solder point temperature (T_s) (white light)

All characteristic curves are for reference only and not guaranteed.

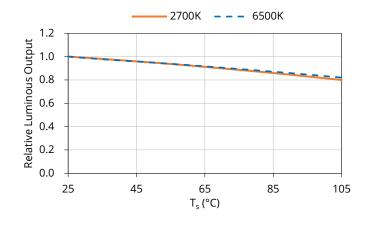
Vs. forward voltage

 $(I_F = 700 \text{mA})$



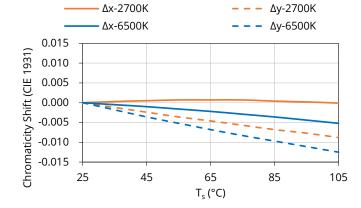
Vs. relative luminous flux

 $(I_F = 700 \text{mA})$



Vs. relative chromaticity shift

 $(I_F = 700 \text{mA})$

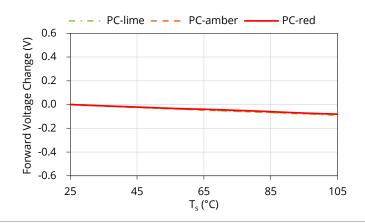


Solder point temperature (T_s) (PC-lime, PC-amber, PC-red)

All characteristic curves are for reference only and not guaranteed.

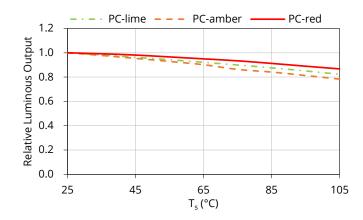
Vs. forward voltage

 $(I_F = 700 \text{mA})$



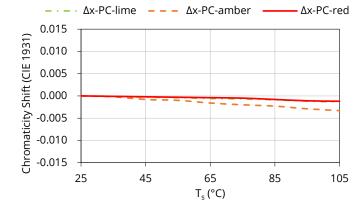
Vs. relative luminous flux

 $(I_F = 700 \text{mA})$



Vs. relative chromaticity shift

 $(I_F = 700 \text{mA})$

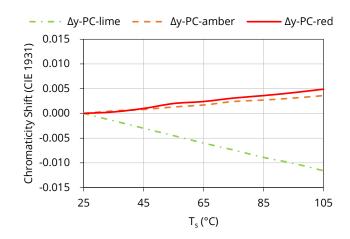


Solder point temperature (T_s) (PC-lime, PC-amber, PC-red) (continued)

All characteristic curves are for reference only and not guaranteed.

Vs. relative chromaticity shift

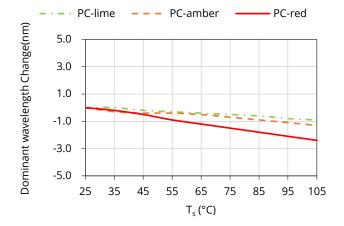
 $(I_F = 700 \text{mA})$



Vs. relative dominant

wavelength shift

 $(I_F = 700 mA)$

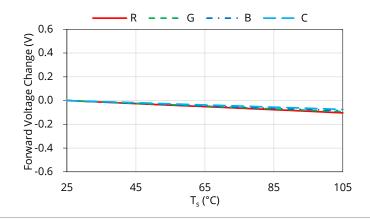


Solder point temperature (T_s) (B = blue, C = cyan, G = green, R = red)

All characteristic curves are for reference only and not guaranteed.

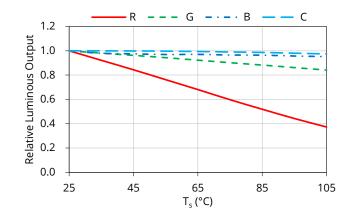
Vs. forward voltage

 $(I_F = 700 \text{mA})$



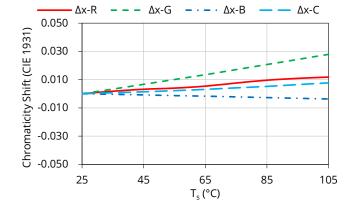
Vs. relative luminous flux

 $(I_F = 700 \text{mA})$



Vs. relative chromaticity shift

 $(I_F = 700 \text{mA})$

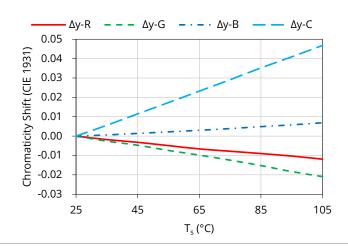


Solder point temperature (T_s) (B = blue, C = cyan, G = green, R = red) (continued)

All characteristic curves are for reference only and not guaranteed.

Vs. relative chromaticity shift

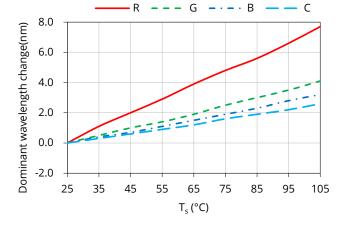
 $(I_F = 700 \text{mA})$



Vs. relative dominant

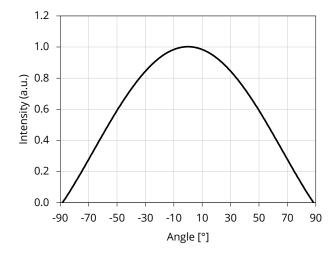
wavelength shift

 $(I_F = 700 mA)$



Spatial distribution ($T_A = 25$ °C, $I_F = 700$ mA)

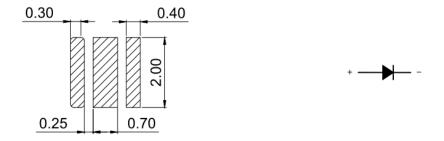
All characteristic curves are for reference only and not guaranteed.



Solder and reflow profile

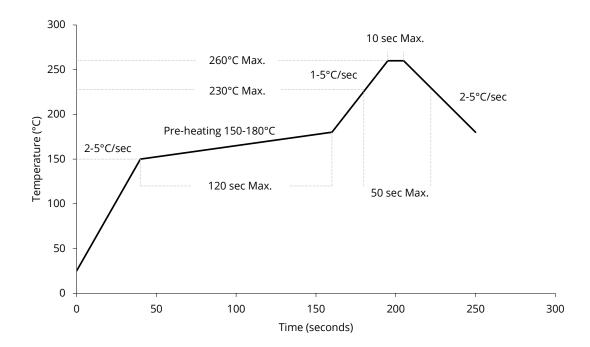
Recommended solder pad layout

All dimensions in mm, tolerance unless mentioned is ±0.1mm.



Reflow profile

Soldering ramp-up time (Pb-FREE).



Note: Soldering paste with the melting point at 230°C is recommended.

SMT instruction

Problems caused by improper selection of collet

Choosing the right collet is important in ensuring product quality after SMT. LEDs are different from other electronic components, as they are not only concerned with electrical output but also optical output. This characteristic makes LEDs more fragile in the process of SMT. If the collet's lowering height is not well set, it will bring damage to the gold wire at the time of collet's pick-and-place process which can cause the LED to not illuminate, flicker or contribute to other quality problems, some of which may not be immediately detectable.

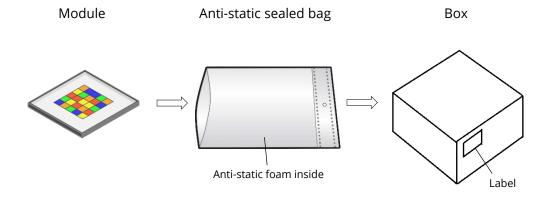
Collet selection

During SMT, please choose the appropriate collet in order to avoid damage the gold wire inside the LED or insufficient suction. Setting the height of the collet is crucial in order to avoid damage to the top view SMD. If the collet setting is set to too low of an altitude, the collet will press down on the SMD, causing damage or breakage to the encapsulant and cause distortion or breakage of the gold wire.

Other notes of caution

- No pressure should be exerted to the epoxy shell of the SMD under high temperature.
- Do not scratch or wipe the lens since the lens and gold wire inside are rather fragile and cross out easy to
- LED should be used as soon as possible when being taken out of the original package, and should be stored in anti-moisture and anti-ESD package.
- This usage and handling instructions are for reference only.

Packaging



The size of box depends on the PCB size and production quantity.

About Yujileds



Our story - Start from superior stable red LED phosphor.

We started to make LED phosphor materials in 2006. White LEDs were still in very early stage, the industry focused on improving device brightness and efficiency via yellow phosphor very much. No one cared about the light quality. Based on this situation, we took a different approach and focused on red phosphor technology, which is the most important phosphor recipe for high CRI and/or low CCT LEDs, and it made Yuji become a JV partner with Mitsubishi Chemical from 2012.

Today, we are well known for our comprehensive research and full line-up production of LED phosphor from ultra-violet to near-infrared, and we are proud to commit to providing superior stable and efficient phosphors to the worldwide markets.

Our technology - Focus on LED spectrum innovation.

The industrial structure on both phosphor and LED gives us a unique view to develop our spectrum recipes. Compared to the general LED manufacturers, we have comprehensive information in evaluating the feasibility for both technical and commercial aspects. LED spectrum technology is not only about the quality of white LEDs, but also for different applications which have specialized requirements in lighting.

Yuji is one of the few companies that provide the service of designing or customizing a specific spectrum for clients, our confidence comes from the years of accumulation in focusing on the spectrum technologies and the control of LED phosphor and LED die supply-chain with thousands of successful cases in the past years. Innovating LED technologies and giving them commercial values are our eternal driving force.

Our product - Yujileds®, stands for high-performance LED.

The trademark of Yujileds® is the identification of the LED products developed and manufactured by Yuji. We put our understanding of the LED technologies and the standard of our quality control into every LED we make. Regardless of any product series, we pay attention to expressing the high-performance feature and achieving the product value for clients and never compromise in pursuing the true performance.

Furthermore, we also care about every detail of any documentation we prepare for the product because we

Introduction & Datasheet **LED Matrix Solution** Rev Version: V1.4

understand the importance to transmit accurate information to clients. It is even more critical for clients to obtain

the truth to decide the solution, rather than just a nominal high-performance.

Our client - Outstanding game players in different fields.

Clients are our proudest achievements, now over 200 of our clients are the best game players in their fields in

more than 33 countries. We regard the clients' successes as our biggest accomplishments and appreciate their

contribution in different fields, clients use our LEDs not just for simple lighting, but to design the lighting for

plants, cameras, sensors, health, circadian rhythm, aminals, and other industries that we have never imagined

that our technologies can be utilized, that makes our work so meaningful.

Our service - Professional supporting team.

There is a group of people in Yuji passionate about creating maximum value for our clients. We have accumulated

experience in different projects. Currently, the company gathers more than 30 experts from various fields of

semiconductor, chemistry, optics, photoelectricity, circuitry, materials and color science.

Our sales team is well trained in deep LED technologies and has skilled global communication experience. Not

just for sales, our team is more like a specialized consultancy to help every client succeed in different projects,

and we do not only provide professional business service, but also support in the supply chain, logistics,

marketing and technical discussions.

Contact us - We look forward to providing our efficient service for you.

LED website: www.yujiintl.com

Find Yujileds® high-performance LEDs, read our insights into a variety of advanced technologies and

applications.

Contact: info@yujigroup.com

LED lighting website: www.yujilighting.com

Find the state-of-art LED lamps and luminaires designed for improving the lighting experience with our vision of

illuminating the future.

Contact: lighting@yujigroup.com

Online shop: store.yujiintl.com

Shop your favorite Yuji Lighting product with rapid and professional service.

Contact: webstore@yujigroup.com

