





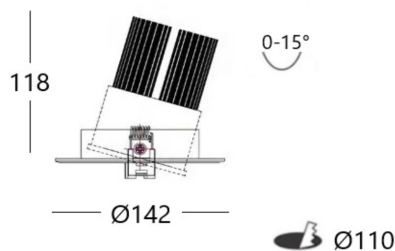
INTERIOR LED RECESSED DOWNLIGHT - RGBW

L03016R



-  IP20
-  CLASS III
-  Europe Standard & CE Certificate. 220-240V 50/60Hz
-  Aluminium die casting material and powder coating
-  Ceiling recessed
-  400-600mm cable with quick connector
-  COB LED RGBW WHITE 4000K 15W 21V DC 700mA 720lm
-  Flicker Free | Remote LED Driver version.
-  Recessed light source | Reflector
-  DALI | DMX RGBW dimming

UNIFORM DISTRIBUTION



Code	System Power W	Output Lumen lm	Dimension mm	Cut Hole mm	Power Supply mA
L03016R -39	39W	720lm	Ø 142xH118mm	Ø 110mm	700mA

FEATURES

The 15° adjustable downlight offer uniform distribution. 40° COB LED RGBW (white 4000K) and reflector optic either DALI or DMX RGBW is available , The basic model comes in white or black color. Customized color finishing, power changes are possible depending on the request and the quantity. Simple installation with metal springs. Easy lighting demand, for a wide scala of projects, from hotels, retail , commercial areas and much more. The spotlight is presented to its customers as a clean and non-dazzling product. | RGBW WHITE 4000K 15W 21V DC 700mA 720lm

Remote LED Driver

Accessoires

Beam Angle




Color Temperature

Finishes

39W 700mA



-  2700K
-  3000K
-  4000K
-  5000K
-  6000K

-  Black
-  White
-  Customized

D4A、D4B DMX/RDM constant voltage decoder



Product Introduction

- Standard DMX/RDM interfaces; Set address via the LCD screen and buttons;
- RDM protocol; Browse and set parameters, change DMX address, and recognize devices via a RDM master;
- DMX mode and customized mode can be switched;
- PWM frequency options: 300/600/1200/1500/1800/2400/3600/7200/10800/14400/18000Hz (default is 1800Hz);
- 16bit (65536 levels)/8bit (256 levels) gray scale optional;
- Two dimming mode options: standard and smooth dimming;
- Set 1/2/3/4 DMX channel output (default is 4 channel output);
- Provide 10 lighting effects, 8 levels of dynamic mode speed, 255 brightness levels;
- Set screen timeout, LCD screen always on, and screen turning off after 30s of inactivity;
- Short circuit, over-temperature, over-current protection and auto recovery;
- D4A has green terminal DMX interfaces, D4B has RJ-45 DMX interfaces.

Product Parameters

Model	D4A	D4B
Input Signal	DMX512, RDM	DMX512, RDM
Input Voltage	12-48V $\overline{=}$	12-48V $\overline{=}$
Input Voltage	Max.8A/CH Max.24A(4CH)	Max.8A/CH Max.24A(4CH)
Output Power	0-96W...384W/CH Max.1152W(4CH)	0-96W...384W/CH Max.1152W(4CH)
Dimming Range	0-100%	0-100%
DMX Signal Port	Green termina	RJ45
Working Temp.	-30°C-55°C	-30°C-55°C
Dimensions	L175×W46×H30mm	L175×W46×H30mm
Package Size	L187×W52×H36mm	L187×W52×H36mm
Weight(G.W.)	325g±5g	325g±5g
Protection	Short circuit, over temperature, over current protection, auto recovery.	

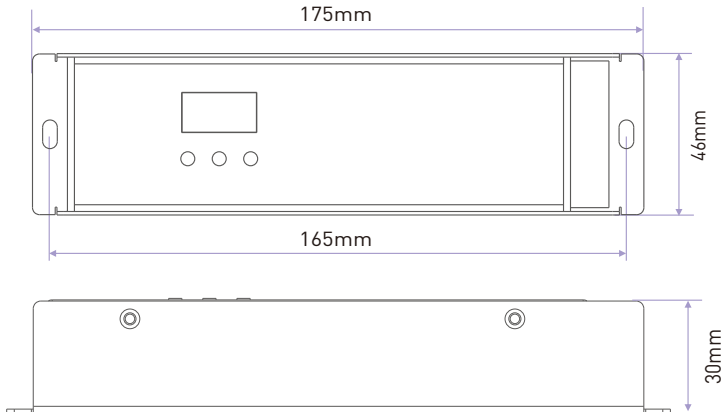
Load Parameters

Current/power Voltage	Frequency 300Hz (F=0)	600Hz (F=1)	1.2kHz (F=2)	1.5kHz (F=3)	1.8kHz (F=4)	2.4kHz (F=5)
12V	6A×4CH/288W 8A×3CH/288W	6A×4CH/288W 8A×3CH/288W	6A×4CH/288W 8A×3CH/288W	6A×4CH/288W 8A×3CH/288W	6A×4CH/288W	6A×4CH/288W
24V	6A×4CH/576W 8A×3CH/576W	6A×4CH/576W 8A×3CH/576W	6A×4CH/576W 8A×3CH/576W	6A×4CH/576W 8A×3CH/576W	6A×4CH/576W	6A×4CH/576W
36V	6A×4CH/864W	6A×4CH/864W	6A×4CH/864W	6A×4CH/864W	6A×4CH/864W	5A×4CH/720W
48V	6A×4CH/1152W	6A×4CH/1152W	6A×4CH/1152W	6A×4CH/1152W	6A×4CH/1152W	5A×4CH/960W
Current/power Voltage	Frequency 3.6kHz (F=6)	7.2kHz (F=7)	10.8kHz (F=8)	14.4kHz (F=9)	18kHz (F=A)	/
12V	6A×4CH/288W	4A×4CH/192W	3.5A×4CH/168W	3A×4CH/144W	2.5A×4CH/120W	
24V	5A×4CH/480W	3.5A×4CH/336W	3A×4CH/288W	2.5A×4CH/240W	2.5A×4CH/240W	
36V	4.5A×4CH/648W	3A×4CH/432W	2.5A×4CH/360W	2.5A×4CH/360W	2A×4CH/288W	
48V	4A×4CH/768W	3A×4CH/576W	2.5A×4CH/480W	2.5A×4CH/480W	2A×4CH/384W	

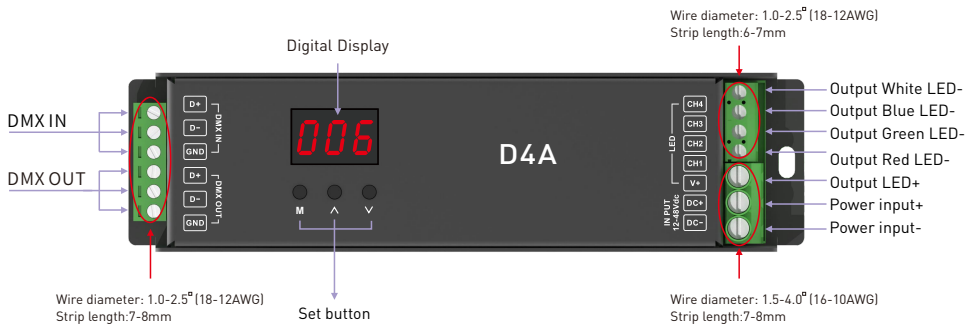
Note: The load capacity of all the above PWM frequency gears has been tested at high temperature (55°C) for 4 hours.

Product Size

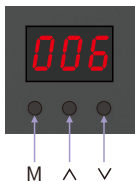
Unit: mm



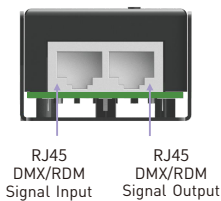
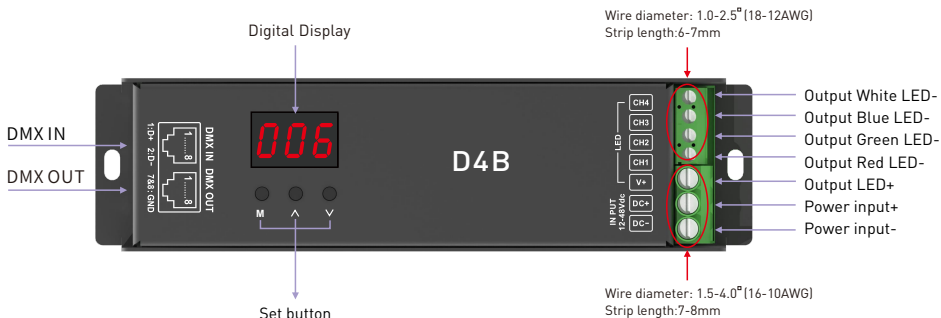
Main Component Description



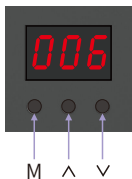
Digital Display:



- Access configuration: Long press the M button for more than 2s.
- Adjust Value: Short press ^ or V button.
- Exit Menu: Long press M button for 2s again to save the setting, then exit the menu.
- Long press M, ^ and V button simultaneously for 2s. When the screen displays RES, it has been reset to factory defaults.
- The display locks automatically after 15 seconds of inactivity.



Digital Display:



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- Adjust Value: Short press ^ or V button.
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- Long press M, ^ and V button simultaneously for 2s. When the screen displays RES, it has been reset to factory defaults.
- The display locks automatically after 15 seconds of inactivity.

OLED Display Interface

DMX decoder mode



Long press M and ^ button simultaneously. When the screen displays "L-1", it enters the DMX decoder mode. Long press M button for 2s to enter the menu.

1. DMX address settings



Press ^ or V button to set the DMX address.
DMX address range: 001-512

2. Resolution



Short press M button to switch the menu to "r".
Press ^ or V button to select resolution and the third value on the screen will display 1 or 2.
Options: **r-1 (8bit)**
r-2 (16bit)

3. PWM frequency



Short press M button to switch the menu to "F".
Press ^ or V button to select PWM frequency and the third value on the screen will display H or L.
Options: **F-4 (1800Hz)** F-0 (300Hz) F-1 (600Hz) F-2 (1200Hz)
F-3 (1500Hz) F-5 (2400Hz) F-6 (3600Hz) F-7 (7200Hz)
F-8 (10800Hz) F-9 (14400Hz) F-A (18000Hz)

4. Dimming mode



Short press M button to switch the menu to "d".
Press ^ or V button to select the dimming mode and the third value on the screen will display 1 or 2.
Options: **d-1 (Smooth dimming)**
d-2 (Standard dimming)

5. DMX channels



Short press M button to switch the menu to "C".
Press ^ or V button to select the channels and the third value on the screen will display 1, 2, 3 or 4.
Options: **C-4 (4 channel output occupies corresponding 4 DMX addresses)**
C-1 (4 channel output occupies DMX address 1)
C-2 (1 and 3 channel output occupy DMX address 1, 2 and 4 channel output occupy DMX address 2)
C-3 (1 channel output occupies DMX address 1, 2 channel output occupies DMX address 2, 3 and 4 channel output occupy DMX address 3)

6. Screen timeout



Short press M button to switch the menu to "n".
Press ^ or V button to select screen timeout and the third value on the screen will display 1 or 2.
Options: **n-1 (Screen stays on)**
n-2 (Screen turns off after 30seconds of inactivity)

Customized mode



Long press M and V button simultaneously. When the screen displays "L-2", it enters the Customized mode. Long press M button for 2s to enter the menu.

1. Lighting effects



e.g. E-1 (no lighting effect)



e.g. E-A (7-color gradient)

Short press M button to switch the menu to "E".

Press ^ or V button to select the lighting effect and the third value on the screen will display 1, 2, 3, 4, 5, 6, 7, 8, 9 or A.

Options:

- | | |
|--------------------------|------------------------|
| E-1 (no lighting effect) | E-6 (Purple) |
| E-2 (Red) | E-7 (Cyan) |
| E-3 (Green) | E-8 (White) |
| E-4 (Blue) | E-9 (7-color jumping) |
| E-5 (Yellow) | E-A (7-color gradient) |

2. Color-changing speed



Short press M button to switch the menu to "S".

Press ^ or V button to select speed and the third value on the screen will display 1, 2, 3, 4, 5, 6, 7 or 8.

Default: S-5

Options: S-1/S-2 S-7/S-8



Speed levels, speed increases one by one

3. Brightness



Short press M button to switch the menu to "B".

Press ^ or V button to select the brightness level and the third value on the screen will display 1, 2, 3, 4, 5, 6, 7 or 8.

B00-BFF, 255 levels, default maximum of 255

Options: B00/B01 BFF



Brightness levels, brightness increases one by one

4. Screen timeout



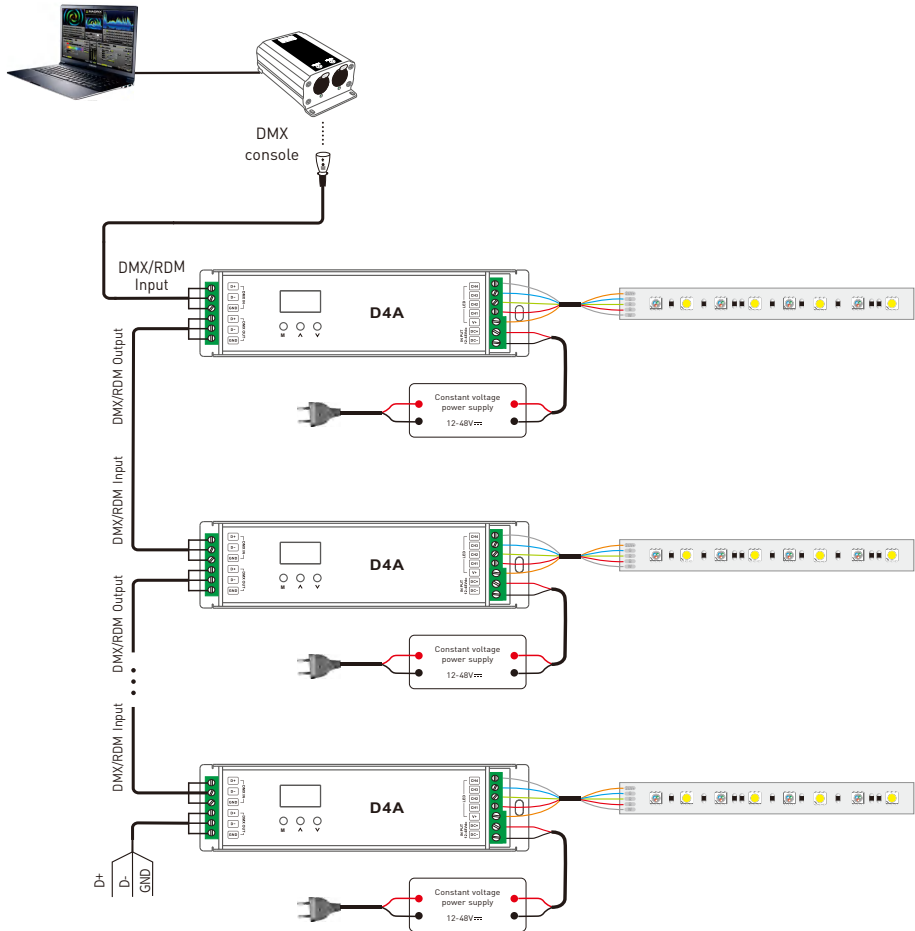
Short press M button to switch the menu to "n".

Press ^ or V button to select screen timeout and the third value on the screen will display 1 or 2.

Options: n-1 (Screen stays on)

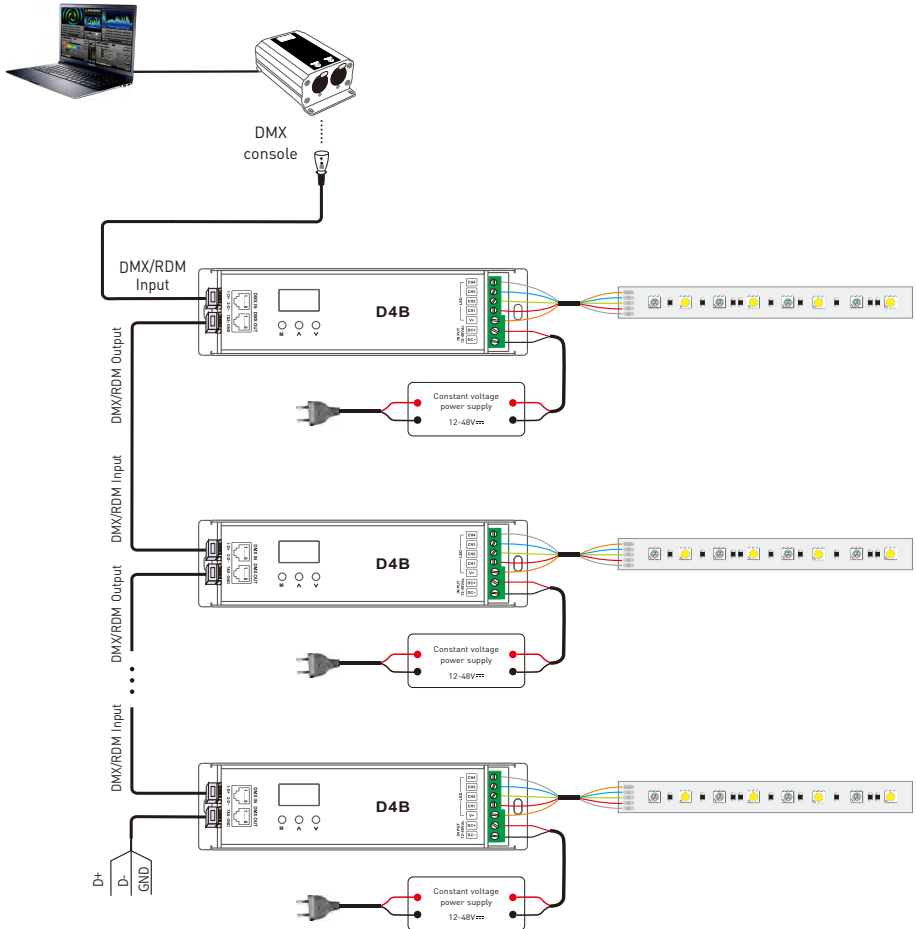
n-2 (Screen turns off after 30 seconds of inactivity)

D4A Wiring Diagram



- * When more than 32 DMX decoders are connected, DMX signal amplifiers are needed and signal amplification should not be more than 5 times continuously. If you need to modify the parameter settings of connected DMX/RDM decoders that exceed 32, you can add 1 RDM signal amplifier. Or you can add 1-5 DMX signal amplifiers after completing the parameter settings.
- * If the recoil effect occurs because of long signal line or poor quality wires, please try to connect a 0.25W 90-120Ω terminal resistor at the end of each line.

D4B Wiring Diagram



- * When more than 32 DMX decoders are connected, DMX signal amplifiers are needed and signal amplification should not be more than 5 times continuously. If you need to modify the parameter settings of connected DMX/RDM decoders that exceed 32, you can add 1 RDM signal amplifier. Or you can add 1-5 DMX signal amplifiers after completing the parameter settings.
- * If the recoil effect occurs because of long signal line or poor quality wires, please try to connect a 0.25W 90-120Ω terminal resistor at the end of each line.

Attentions

- This product must be installed and adjusted by a qualified professional.
 - LTECH products are not lightningproof non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning protection devices.
 - Good heat dissipation will extend the life the product. Please install the product in a environment with good ventilation.
 - When you install this product, please avoid being near a large area of metal objects or stacking them to prevent signal interference.
 - Please keep the product away from a intense magnetic field, a high pressure area or a place where lightning is easy to occur.
 - Please check whether the working voltage used complies with the parameter requirements of the product.
 - Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that may cause a short circuit and damage the components, or trigger a accident.
 - If a fault occurs, please do not attempt to fix the product by yourself. If you have any question, please contact the supplier.
- * This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

Warranty Agreement

Warranty periods from the date of delivery : 5 years.

Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

- Beyond warranty periods.
 - Any artificial damage caused by high voltage, overload, or improper operations.
 - Products with severe physical damage.
 - Damage caused by natural disasters and force majeure.
 - Warranty labels and barcodes have been damaged.
 - No any contract signed by LTECH.
1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.
 2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.

TX-1919RGBS40D180-001H90

PRODUCT SPECIFICATION

Features:

- ◆ Excellent transiting heat from LED chip operating under RGB:350mA S:700mA.
- ◆ Mixing any two colors of light,there will be no partial color and color spots uneven phenomenon.
- ◆ High luminous output.
- ◆ No UV.
- ◆ Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆ Red:AlGaInP
- ◆ Green:GaInN
- ◆ Blue:GaN
- ◆ Warm White:GaN

Emitting Color:

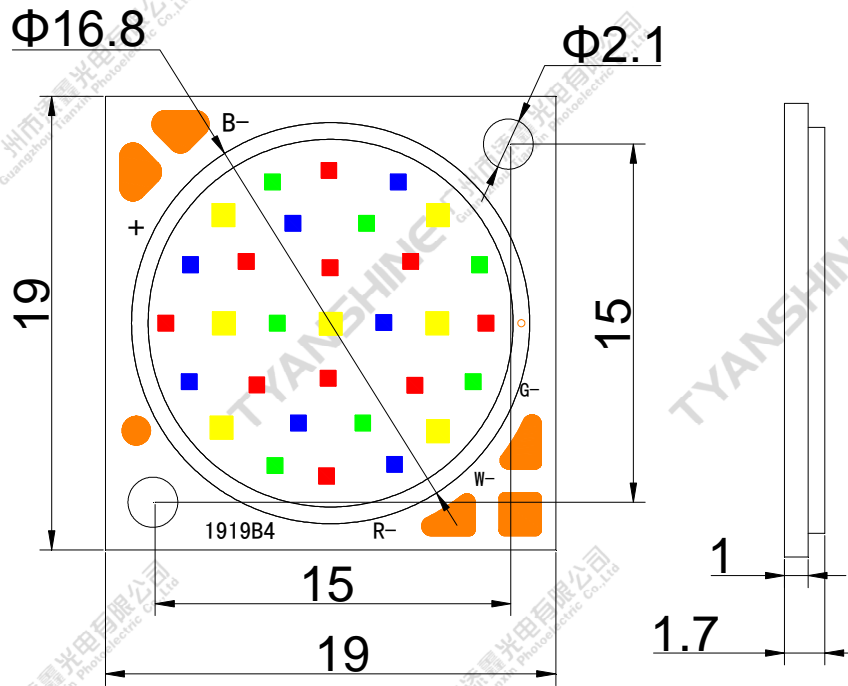
- ◆ Red
- ◆ Green
- ◆ Blue
- ◆ Warm White

Applications:

- ◆ Indoor lighting
- ◆ Outdoor lighting
- ◆ Industrial Lighting
- ◆ Consumer Lighting

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Package Dimensions:



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 mm (0.01") unless otherwise noted.

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	MAX.	Unit
LED Junction Temperature	T _j	110	°C
Power Dissipation	P _D	R	8000
		G	8000
		B	8000
		W	16000
Continuous Forward Current	I _F	R	350
		G	350
		B	350
		W	700
Reverse Voltage	V _R	—	V
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Operating Temperature Range	T _{opr}	-30 to +70	°C
Storage Temperature Range	T _{spr}	-30 to +100	

Notes:

- Specifications are subject to change without notice.
- The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.
- Precautions for ESD:
 STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

Characteristics (Ta=25°C,RGB:IF=350mA,S:IF=700mA):

Parameter	Symbol	Emitting Color	Values			Units
			Min.	Typ.	Max.	
Luminous Flux	ϕ_v	R	320	450	—	lm
		G	480	650	—	
		B	88	115	—	
		W	640	850	—	
Viewing Angle at 50% IV	$2\theta_{1/2}$	R	—	180	—	Deg
		G	—	180	—	
		B	—	180	—	
		W	—	180	—	
Peak Emission Wavelength	λ_p	R	627	632	637	nm
		G	515	520	525	
		B	447	452	457	
Dominant Wavelength	λ_d	R	618	623	628	nm
		G	522	525	530	
		B	452	455	460	
Spectral Line Half-Width	$\Delta\lambda$	R	15	20	25	nm
		G	25	30	35	
		B	15	20	25	
Forward Voltage	V_f	R	19	21	23	V
		G	19	21	23	
		B	19	21	23	
		W	19	21	23	
Correlated Colour Temperature	CCT	W	2700	—	3250	K
Color Rendering Index	Ra	W	—	90	—	
Reverse Current	I_R	—	—	—	—	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	—	1.5	—	K/W
Temperature Coefficient of Forward Voltage	$V\Delta F/T$	—	—	-2	—	mV/°C

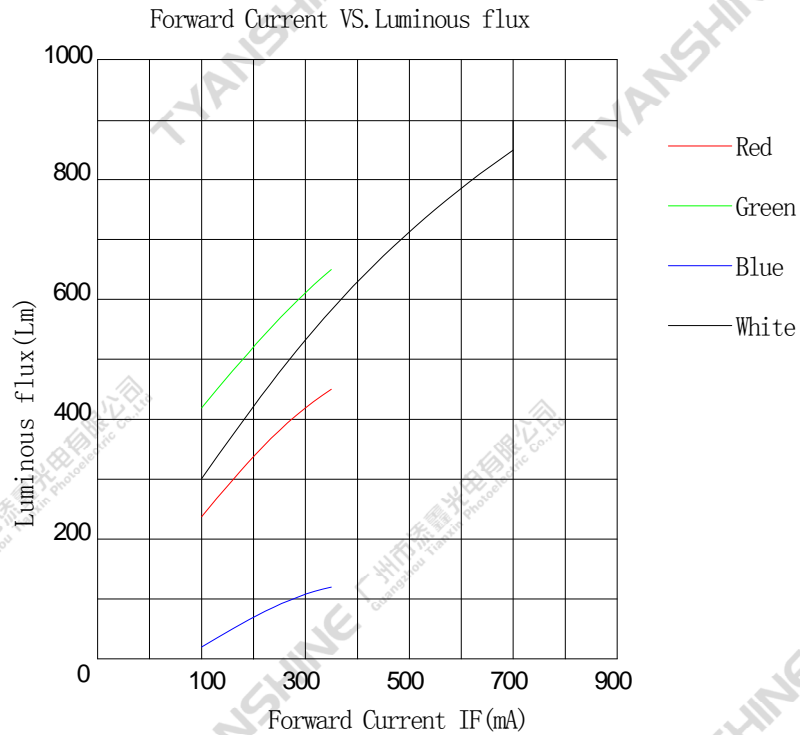
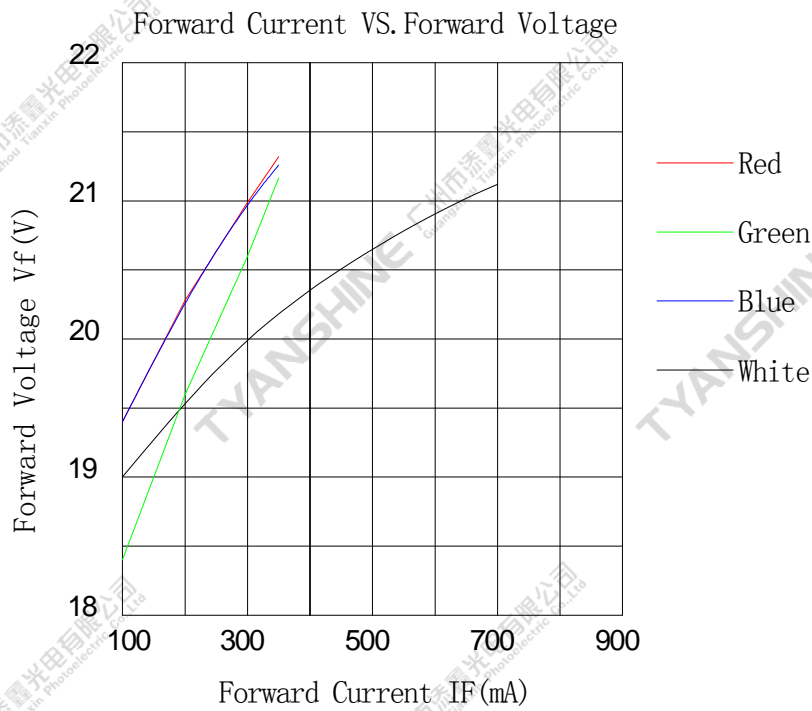
Notes:

- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity
- The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- Flux is measured with an accuracy of $\pm 15\%$.
- Forward voltage is measured with an accuracy of $\pm 0.15V$.

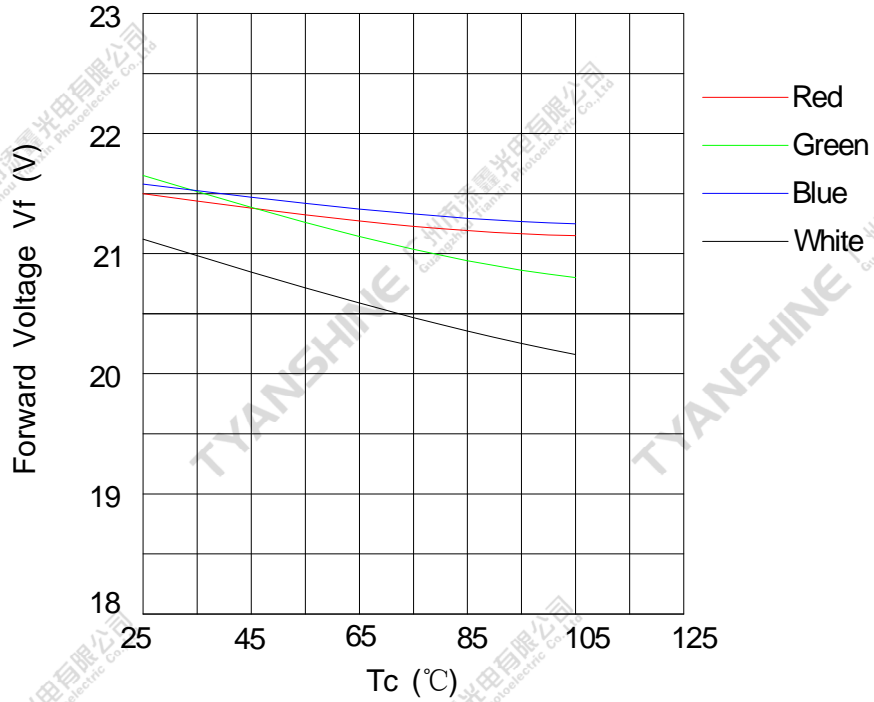
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Typical Electrical / Optical Characteristics Curves

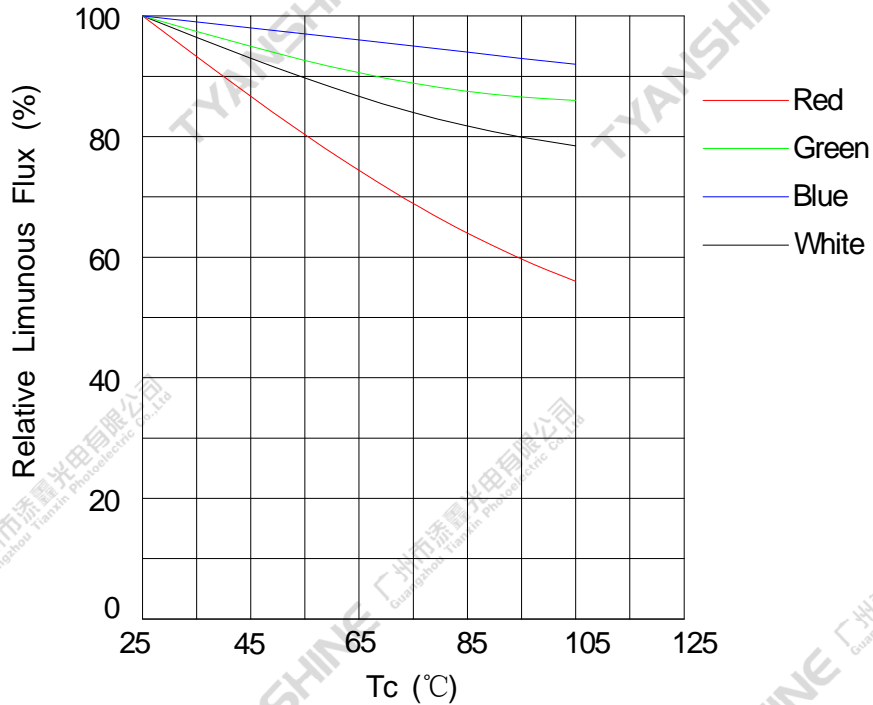
(25°C Ambient Temperature Unless Otherwise Noted)



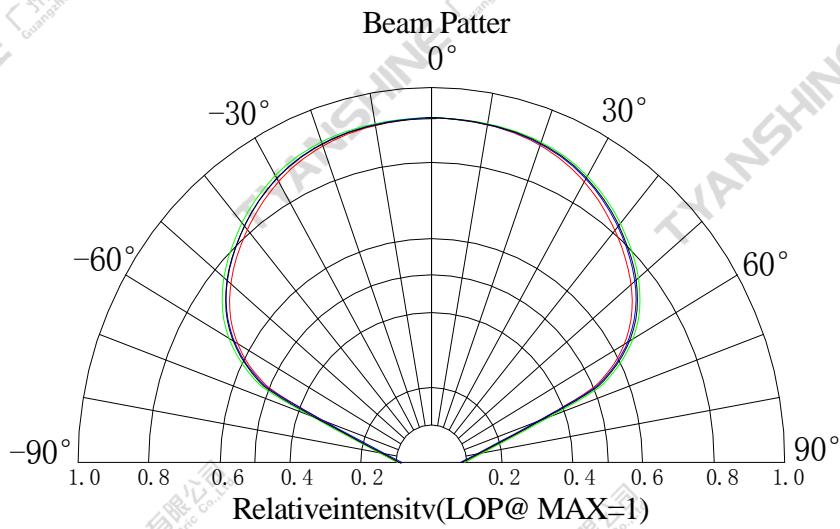
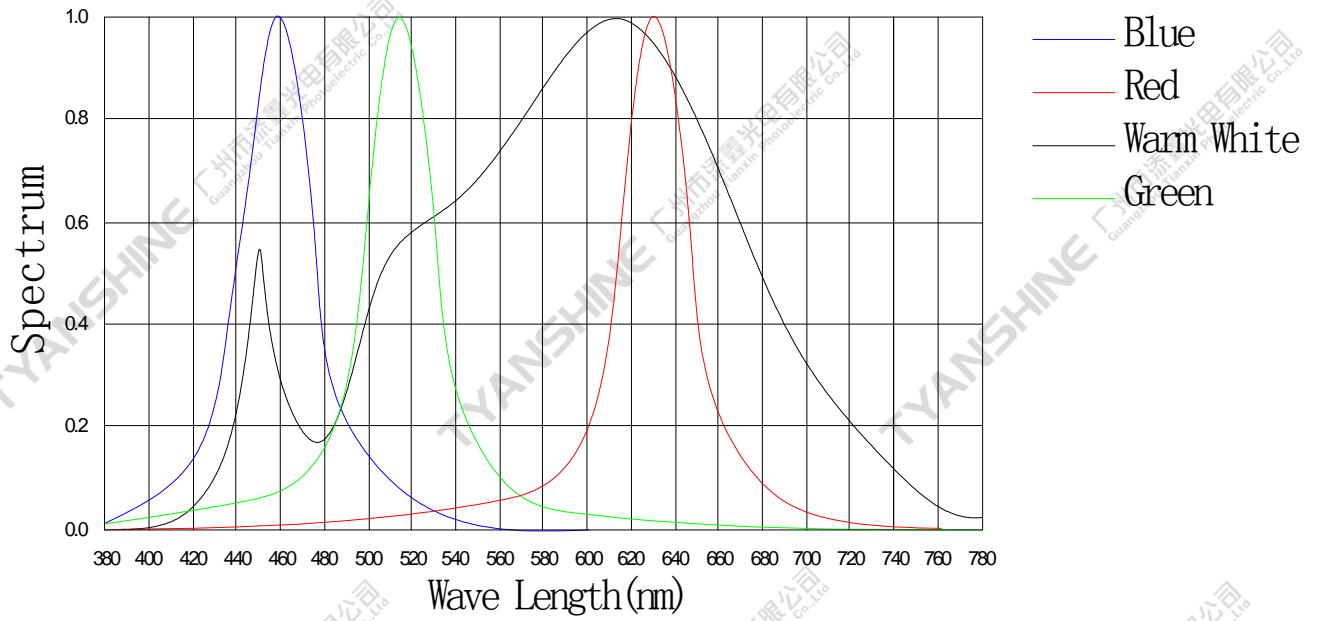
Temperature VS. Forward Voltage ($I_{F(RGB)}=350mA, I_{F(W)}=700mA$)



Temperature VS. Relative Luminous FLux ($I_{F(RGB)}=350mA, I_{F(W)}=700mA$)



Relative Spectral Distribution



Notes:

- 1.2θ 1/2 is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value.
- 2.View angle tolerance is±5°.

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