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Snowdragon Industrial Co.,Ltd

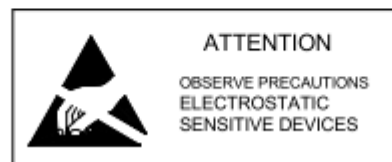
DATA SHEET

MODEL N.O.: SDP5WCOB20FC-W1

SDP7WCOB20FC-W1

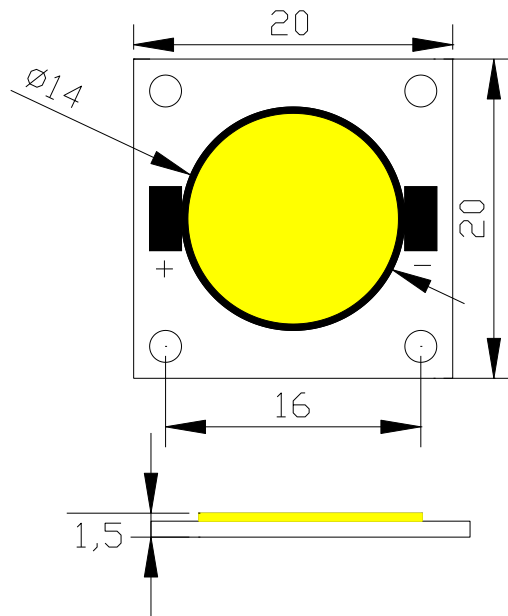
ENG. N.O.: 13042501

PREPARED BY	CHECKED BY	APPROVED BY
CUSTOMER APPROVED SIGNATURES		



Technology support or Order ,pls email us :powerledmanufacturer@gmail.com

■ Mechanical Dimensions:



Note:

1. All dimensions are in millimeters
2. All dimensions without tolerances are for reference only.

Absolute Maximum Ratings (Ta = 25°C) :

Items	Symbol	Absolute maximum Rating		Unit
		White (5W)	White(7W)	
Power Dissipation *	P _D	5100	7100	mW
DC Forward Current	I _F	320	320	mA
Peak Pulse Forward Current*	I _{FP}	600	600	mA
Reverse Voltage	V _R	--	--	V
LED Junction Temperature	T _j	125	125	°C
Operating Temperature	T _{op}	-30 ~ +80	-30 ~ +80	°C
Storage Temperature	T _{stg}	-40 ~ +100	-40 ~ +100	°C
Manual Soldering Temperature	T _{sol}	Max.350°C ± 20°C for 3 sec Max		

*Pulse width \leq 0.1msec Duty cycle \leq 1/10

Typical Electrical & Optical Characteristics (Ta = 25°C):

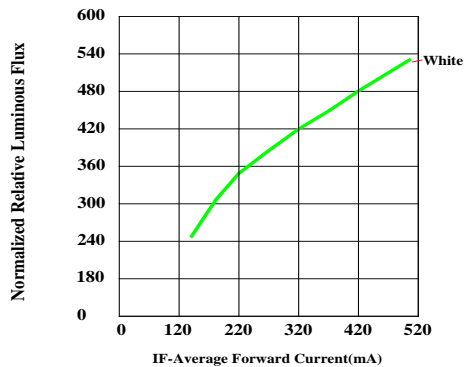
Part No	Color Temperature	Forward Voltage(V)			Test Condition	Viewing Angle	Luminous Flux
		Min.	Avg.	Max.			
SDP5WCOB20FC-W1	6000-6500K	--	16	--	I _F =320 mA	120	400-500lm
SDP7WCOB20FC-W1	6000-6500K	--	23	--	I _F =320 mA	120	600-700lm

Notes

- 1.Absolute maximum ratings Ta=25°C.
- 2.Tolerance of measurement of forward voltage \pm 0.1V.
- 3.Tolerance of measurement of Luminous Flux \pm 5%.

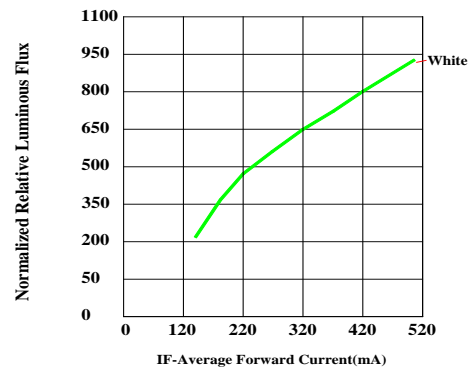
Typical Electrical/ Optical Characteristics Curves
 (Ta=25 °C Unless Otherwise Noted) :

5W

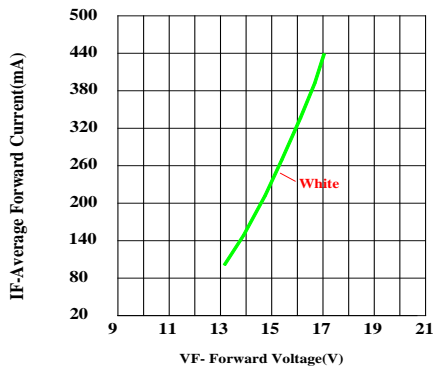


Relative Luminous Flux vs. Forward Current for White

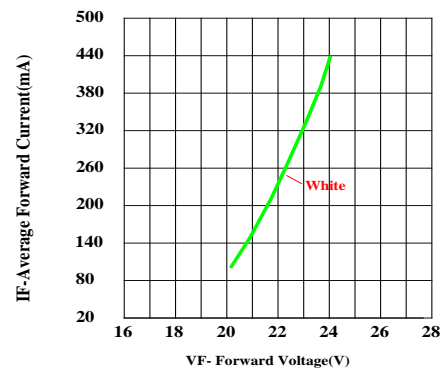
7W



Relative Luminous Flux vs. Forward Current for White

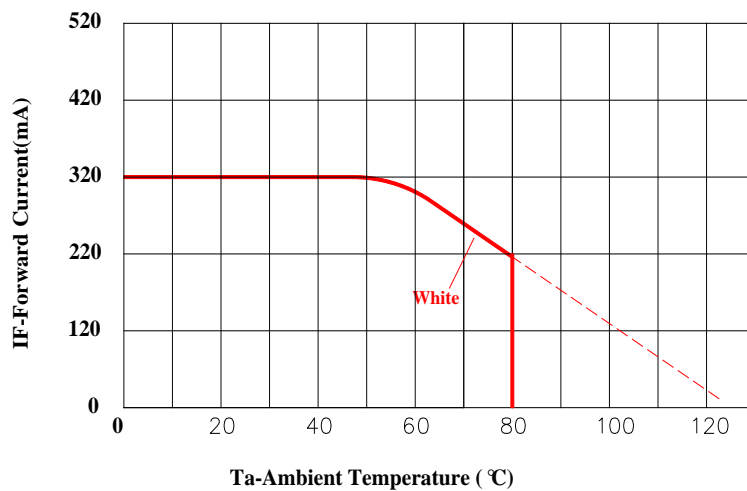


Forward Current vs. Forward Voltage for White

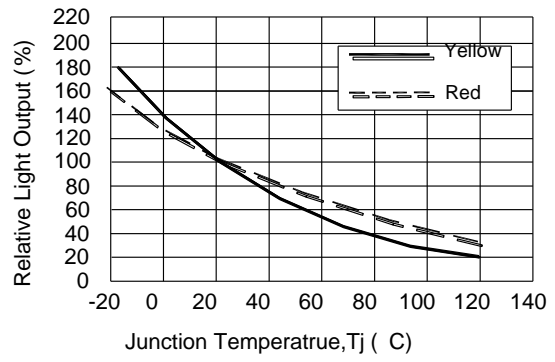
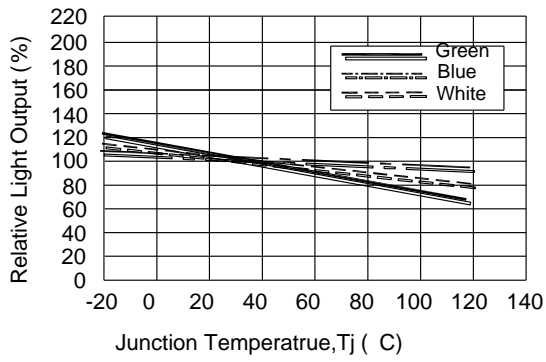


Forward Current vs. Forward Voltage for White

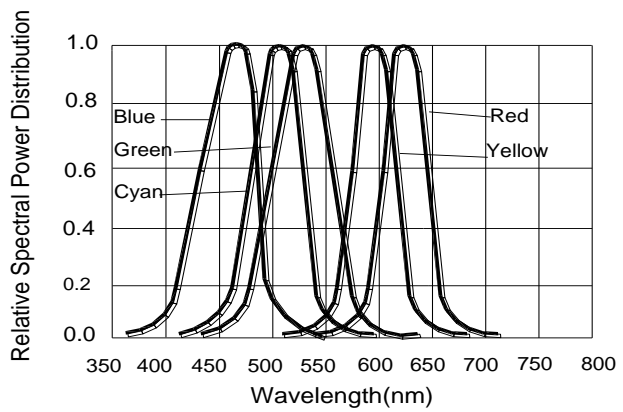
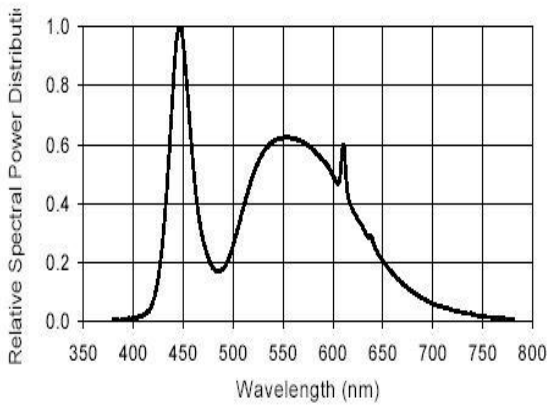
Forward Current VS Ambient Temperature



Light Output Characteristics

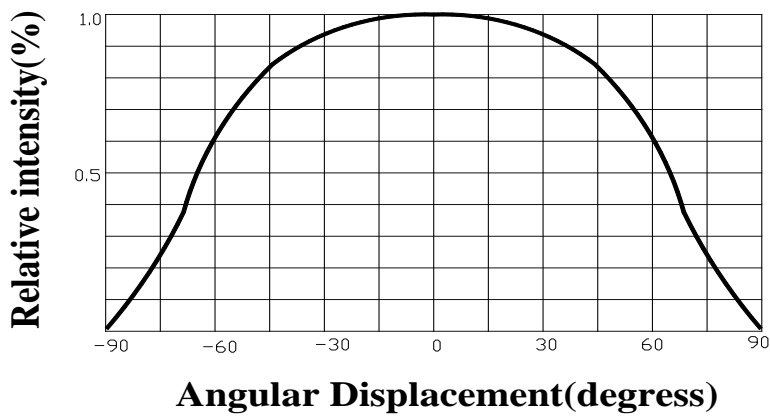


Wavelength Characteristics



Relative Intensity vs. Wavelength(nm)

Angular displacement VS Relative intensity



Reliability

1. Test Items And Results

	Test Item	Reference Standard	Test Conditions	Test Hours/cycle	Units Tested	Ac/Re
Operation Test	Operating Life Test		5W) $T_A=25^{\circ}\text{C}\pm 5^{\circ}\text{C}$, $I_F=320\text{mA}$ (7W) $T_A=25^{\circ}\text{C}\pm 5^{\circ}\text{C}$, $I_F=320\text{mA}$	1000 Hrs	22	0/22
Environment Test (	High Temperature Storage	JEITA ED-4701 200 201	$T_A=100^{\circ}\text{C}\pm 5^{\circ}\text{C}$	1000 Hrs	22	0/22
	Low Temperature Storage (	JEITA ED-4701 200 201	$T_A= - 40^{\circ}\text{C}\pm 5^{\circ}\text{C}$	1000 Hrs	22	0/22
	High Temperature.& Humidity Storage		$T_A=85^{\circ}\text{C}\pm 5^{\circ}\text{C}$, $\text{RH}=85\%\pm 5\%\text{RH}$	1000 Hrs	22	0/22
	Thermal Shock	JEITA ED-4701 300 307	$-40^{\circ}\pm 5^{\circ}\text{C} \leftrightarrow +85^{\circ}\text{C}\pm 5^{\circ}\text{C}$ 30min dwell / 5 min transfer	50 Cycles	22	0/22
Soldering Test	Solder ability		$350\pm 5^{\circ}\text{C}$, 5 ± 1 sec	1 time Over 95%Wetting	22	0/22
	Resistance to Soldering Heat (		$350\pm 5^{\circ}\text{C}$, 5 ± 1 sec	1 time	22	0/22

Note : It is required that the LEDs should be attached heat-sink when these LEDs are Operating.