

**Part No.: S12NW6C**

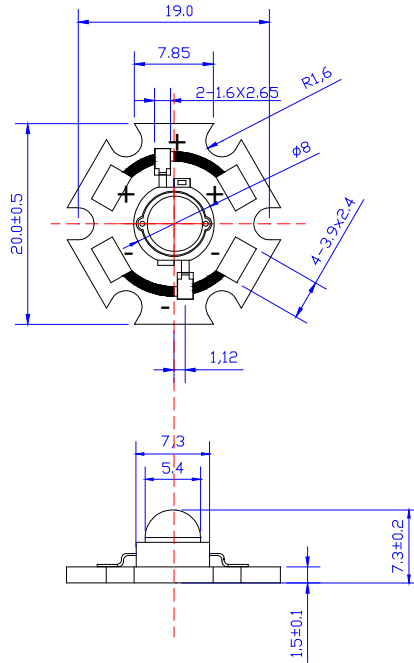


**Features:**

- Highest Flux White
- High reliability and Very long operating life (up to 100K hours)
- Low voltage DC operated
- More Energy Efficient than Incandescent and most Halogen lamps
- NO UV
- Superior ESD protection

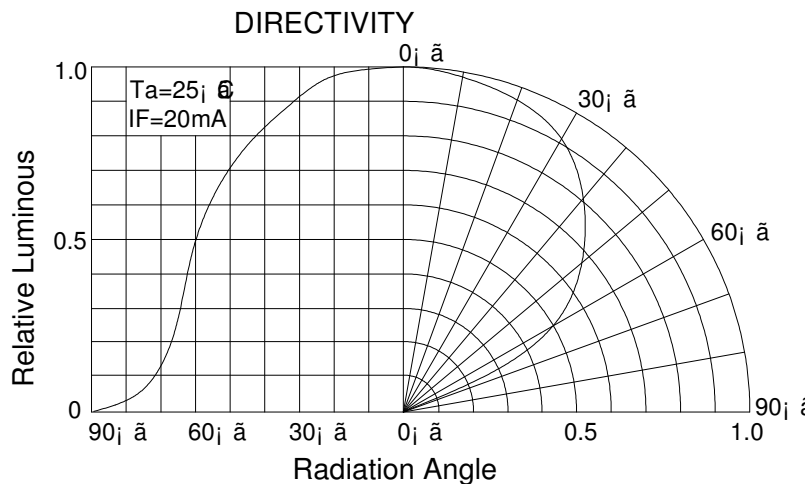
**Typical Applications:**

- Reading lights(car,bus,aircraft)
- Portable(flashlight,bicycle)
- Automotive Exterior(Stop-Tail-Turn, CHMSL,Mirror Side Repeat)
- Decorative



**NOTE:**

- All dimensions are millimetres.
- Tolerance is  $\pm 0.1$ mm unless otherwise noted





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**Absolute maximum ratings (Ta = 25°C)**

Parameter	Symbol	Test Condition	Value		Unit
			Min.	Max.	
DC Forward Current	IF	----	----	350	mA
Peak Pulse Current	Ipeak	Duty=0.1mS, 1kHz	----	500	mA
Power Dissipation	Pd	----	----	1.4	W
LED Junction Temperature	Tj	----		120	°C
Operating Temperature	Topr	----	-25	+100	°C
Storage Temperature	Tstr	----	-40	+120	°C
ESD Sensitivity	---	HBM	8000	---	V
Soldering Temperature	---	-----	260°C for 5 Seconds max		

**Electrical and optical characteristics (Ta = 25°C)**

Parameter	Symbol	Test Condition	Value			Unit
			Min.	Typ.	Max.	
Forward Voltage	VF	IF = 350mA	----	3.5	4.0	V
Luminous Flux	Φv	IF = 350mA	25	30	-	lm
Viewing Angle	2 θ 1/2	IF = 350mA	----	120	----	Deg.
Color Temperature	CCT	IF = 350mA	6500	----	8000	K
Chromaticity Coordinates	X,Y	IF = 350mA	WC			--

**Luminous Flux Bins (Ta = 25°C)**

**Unit:lm**

Bin	C	D	E	F	G	H
Min	10	15	20	25	30	40
Max	15	20	25	30	40	50

**Dominant Wavelength- λd (Ta = 25°C)**

**Unit: nm**

Bin	B	C	D	E		
Min	8000K	6500K	5000K	3500K		
Max	10000K	8000K	6500K	5000K		

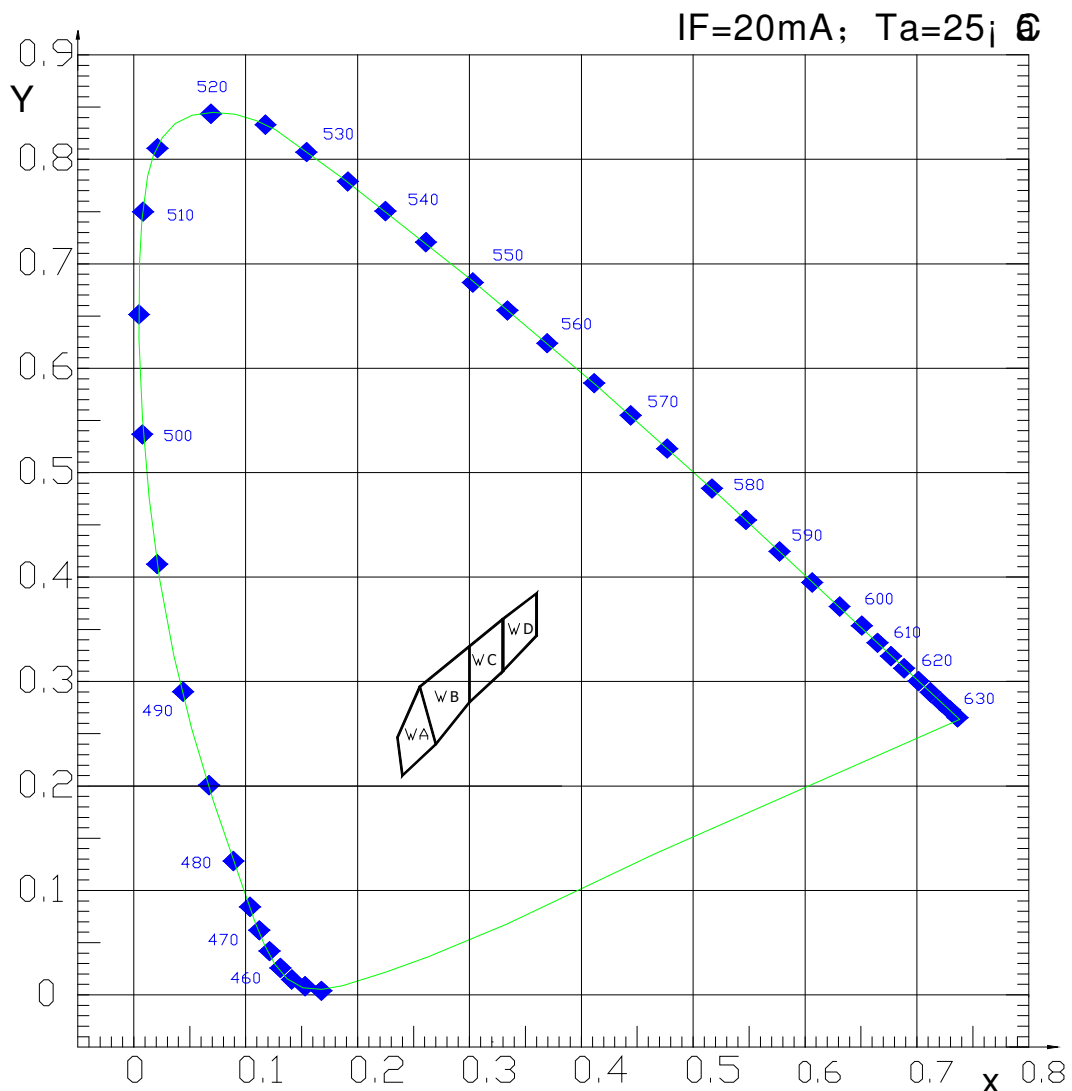


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**Chromaticity Coordinates Ranks (IF=20mA Ta=25°C)**

WA	X	0.240	0.235	0.265	0.270	WC	X	0.300	0.300	0.330	0.330
	Y	0.210	0.248	0.295	0.240		Y	0.280	0.335	0.360	0.310
WB	X	0.270	0.265	0.300	0.300	WD	X	0.330	0.330	0.360	0.360
	Y	0.240	0.295	0.335	0.280		Y	0.310	0.360	0.385	0.345

**CIE 1931 Chromaticity diagram**





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**Typical electrical/optical characteristic curves:**

