

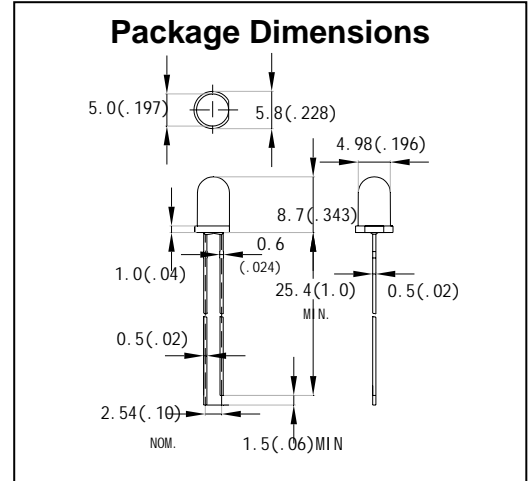
## Data Sheet For 5mm Super White LED Angle 30°

**Features**

- Standard T-1 Diameter Type Package.
- General Purpose Leads
- Reliable and Rugged

**Absolute Maximum Ratings at Ta=25**

Parameter	MAX.	Unit
Power Dissipation	100	mW
Peak Forward Current ( 1/10 Duty Cycle, 0.1ms Pulse Wide)	100	mA
Continuous Forward Current	20	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-40°C to +80°C	
Storage Temperature Range	-40°C to +80°C	
Lead Soldering Temperature [ 4mm(.157") From Body]	260°C for 3 Seconds	

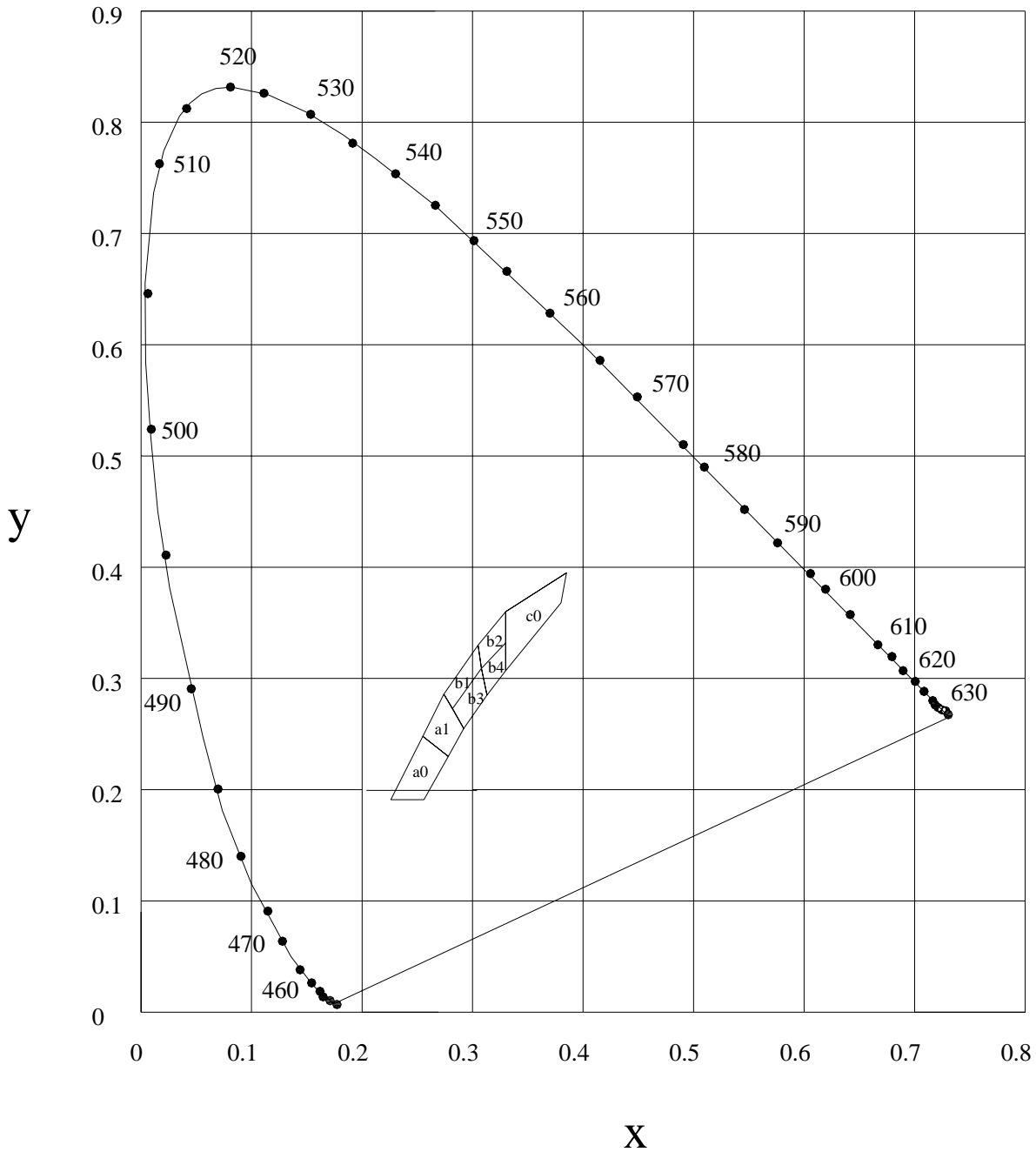


**Electrical Optical Characteristics at Ta=25°C**

Part Number	Lens color	Source Color	Luminous Intensity Iv / mcd at I <sub>F</sub> = 20mA (Note 5)			Forward Voltage / V at I <sub>F</sub> = 20mA			Viewing Angle / Deg (Note 6)
			Min.	Typ.	Max.	Min.	Typ.	Max.	
NC503TWN1-30Q	Water Clear	White	4900	6300	---	---	3.2	4.0	30°
Reverse Voltage = 5V					Reverse Current = 50µA				

- Notes:**
1. All dimensions are in millimeter.
  2. Tolerance of measurement is ±0.25mm(.01") unless others otherwise noted.
  3. Protruded resin under flanges is 1.0mm(0.4") max.
  4. Lead spacing is measured where the leads emerge from the package.
  5. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve. Tolerance of measurement of luminous intensity is ±15%
  6.  $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity. It use many parameters that correspond to the CIE 1931 2° Tolerance of measurement of angle is ±10 degree
  7. Caution in ESD: Static 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.
  8. X,Y, and Z are CIE1931 2° values of Red, Green and Blue content of the measurement. Color Coordinates Measurement allowance is ±0.01
  9. Specifications are subject to change without notice.

# CIE Diagram



\* Color Coordinates Measurement allowance is  $\pm 0.01$

**Color Ranks (Note 8)**

a0				a1				b1				b2							
x	0.256	0.226	0.255	0.278	x	0.278	0.255	0.274	0.292	x	0.282	0.274	0.305	0.308	x	0.308	0.305	0.33	0.33
y	0.191	0.191	0.248	0.23	y	0.23	0.248	0.286	0.255	y	0.273	0.286	0.33	0.309	y	0.309	0.33	0.36	0.332
b3				b4				c0											
x	0.292	0.282	0.308	0.313	x	0.313	0.308	0.33	0.33	x	0.33	0.33	0.385	0.38					
y	0.255	0.273	0.309	0.285	y	0.285	0.309	0.332	0.307	y	0.307	0.36	0.395	0.368					

Color Coordinates Measurement allowance is  $\pm 0.01$