

# L200-SIW-20D-LL

Warm White

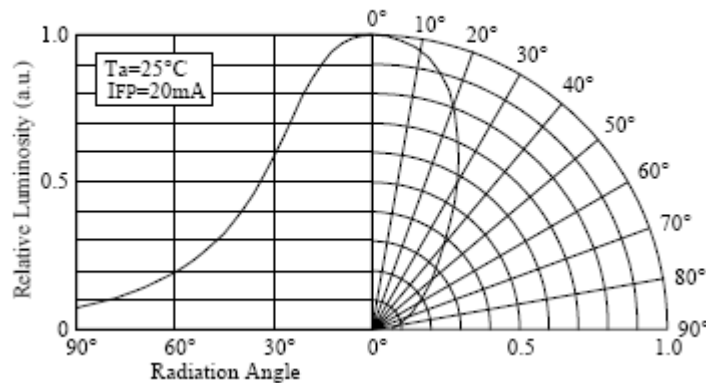
5mm, Flanged Cylindrical, 8.6mm Height  
21° viewing angle

DWG BY:  
SG / GP  
07-15-09

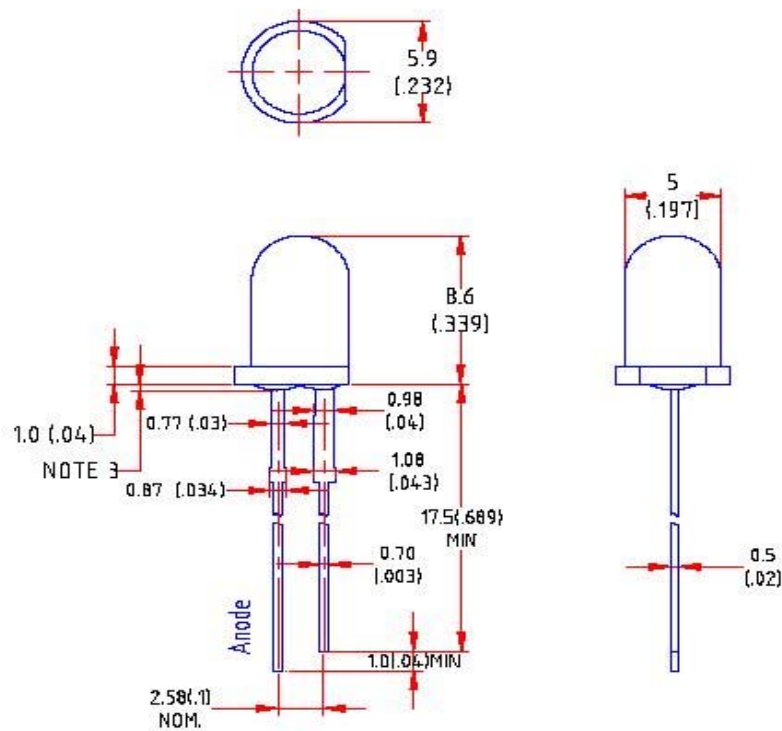
CHK BY:  
PL  
07-21-09

REVISION LTR: -  
  
07-21-09

## BEAM PATTERN



## OUTLINE DIMENSIONS:



### NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25$  (0.01") mm unless otherwise noted.
3. Protruded resin under flange is 1.0mm (0.04") max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice.

**ABSOLUTE MAXIMUM RATING:**

(Ta=25°C)

Item	Symbol	Absolute Maximum Rating	Unit
Power Dissipation	Pd	120	mW
Pulse Forward Current	Ifp	150	mA
Forward Current	If	20	mA
Derating Factor	--	0.40	mA/ C
Reverse Voltage	Vr	5	V
Operating Temperature	Topr	-30 -- +85	°C
Storage Temperature	Tstg	-40 -- +100	°C
Soldering Temperature	Tsld	265°C for 10 Sec	

 Ifp Condition : Pulse Width  $\leq 10$  msec. Duty  $\leq 1/10$ 
**ELECTRICAL/OPTICAL CHARACTERISTICS**

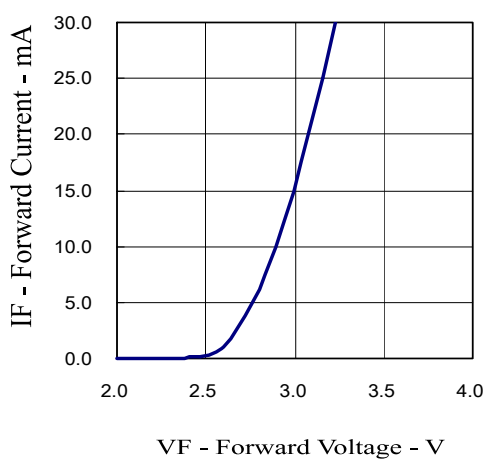
Item	Symbol	Condition	Typ.	Max.	Unit	
Forward Voltage	Vf	If=20mA	3.1	3.5	V	
Luminous Flux	--	If=20mA	5	--	lm	
Luminous Intensity	Iv	If=20mA	12,300	--	mcd	
Viewing Angle	2 $\theta_{1/2}$	If=20mA	21	--	deg	
SCP	--	If=20mA	0.37	--	cd	
Radiant Intensity	--	If=20mA	39	--	mW/sr	
Chromaticity Coordinate*	x	--	If=20mA	0.43	--	--
	y	--	If=20mA	0.39	--	--

\* Please refer to CIE1931 chromaticity coordinate.

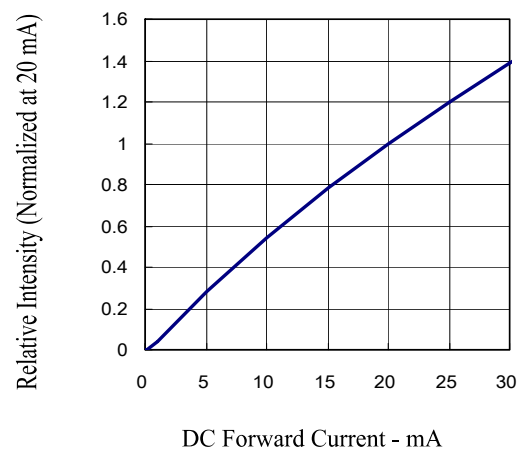
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Color Temperature	K	If=20mA	2850K	2950K	3050K	--

## TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

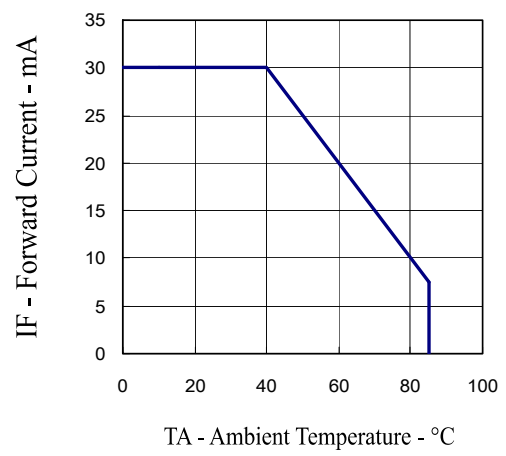
Forward Current vs. Forward Voltage



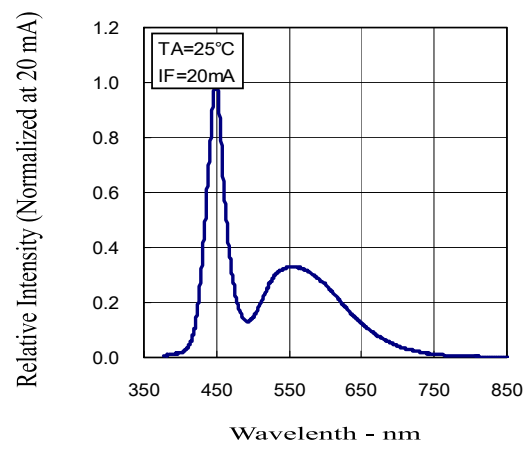
Relative Intensity vs. Forward Current



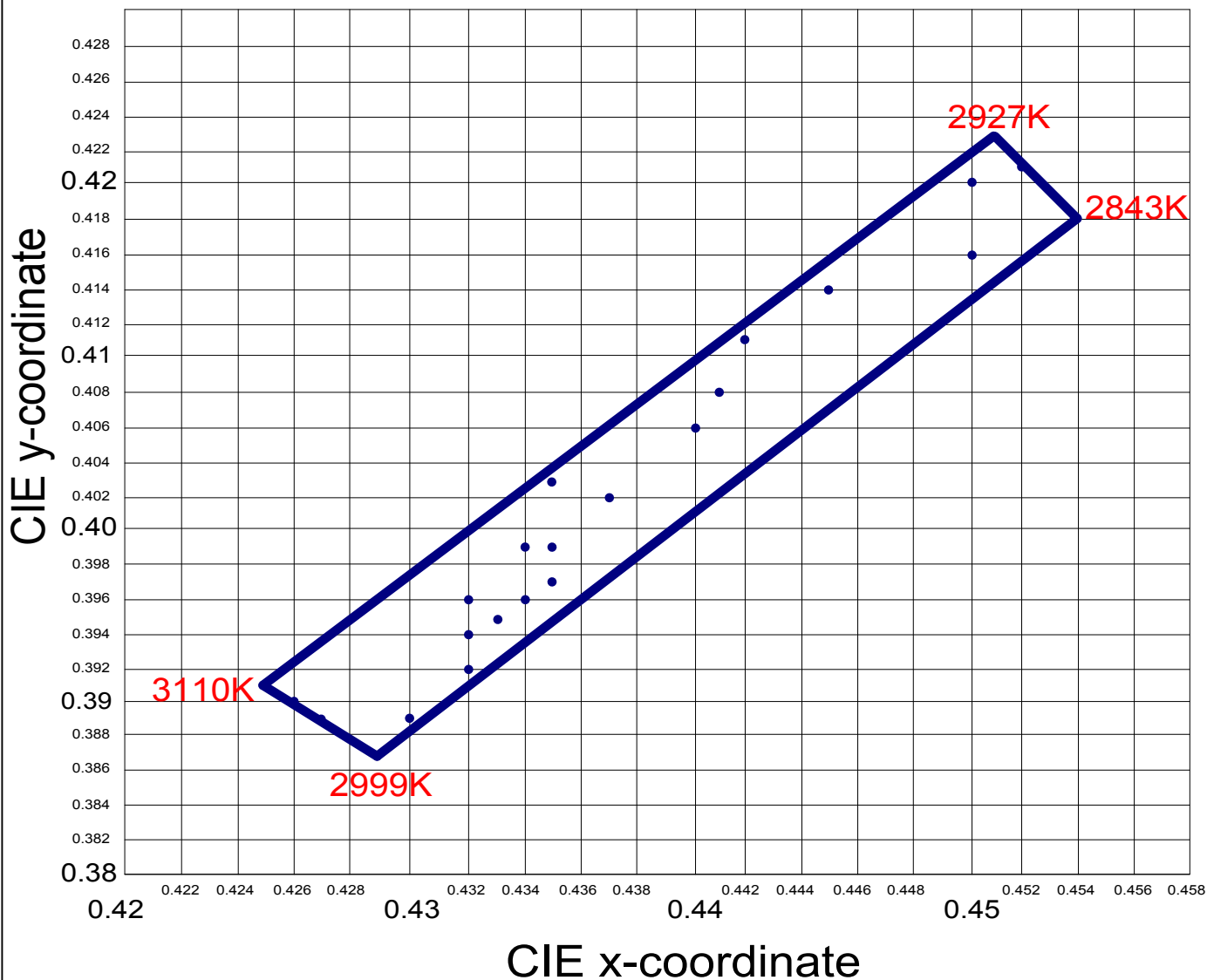
Forward Current vs. Ambient Temperature



Relative Intensity vs. Wavelength



### Color Bin Range



Color Code	Bin Code		CCT		CCT		CCT		CCT	
SIW	RANK A	X	0.429	2999K	0.425	3110K	0.451	2927K	0.454	2843K
		Y	0.387		0.391		0.423		0.418	
	-	X	-	-	-	-	-	-	-	-
		Y	-	-	-	-	-	-	-	-
	-	X	-	-	-	-	-	-	-	-
		Y	-	-	-	-	-	-	-	-
	-	X	-	-	-	-	-	-	-	-
		Y	-	-	-	-	-	-	-	-