

LD200-0CW-40D

Super Cool White

5mm, Domed, 8.6mm Height

37° viewing angle

62 Lumens per Watt

(If = 20mA, Ta = 25°C)

DWG BY:
LL / JAG
04-07-06

CHK BY:
PL
08-25-06

QA:
__
08-__-06

MFG:
__
__-__-__

REVISION:
Version: 1.0
08-24-06

Absolute Maximum Ratings at Ta=25°C

Parameter	MAX.	Unit
Power Dissipation	80	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	20	mA
Derating Linear From 50°C	0.4	mA/!C
Reverse Voltage	5	V
Electrostatic Discharge (ESD)	150	V
Operating Temperature Range	-20°C to +80°C	
Storage Temperature Range	-30°C to +100°C	
Lead Soldering Temperature [4mm (.157") From Body]	260°C for 5 Seconds	

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _V	4900	6500	---	mcd	I _F =20mA (Note 1)
Viewing Angle	2q _{1/2}	---	37	---	Deg	(Note 2)
Forward Voltage	V _F	---	3.2	4.0	V	I _F =20mA
Reverse Current	I _R	---	---	50	μA	V _R =5V
SCP	---	---	0.30	---	---	---
Lumens	---	---	3.8	---	lm	---
Radiant Intensity	---	---	24	---	mW/sr	---
Color Rendering Index	CRI	79	---	83	---	---

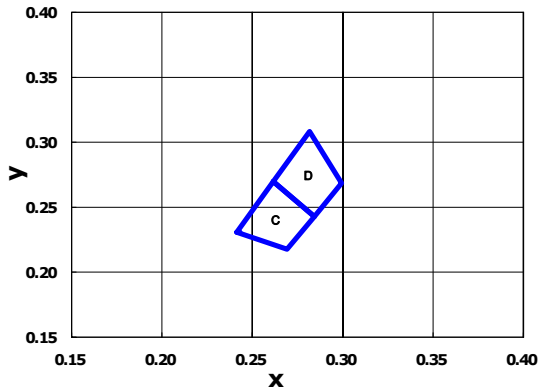
Color Rank	x	y	x	y	x	y	x	y
LTC & LTD	0.270	0.285	0.288	0.250	0.305	0.275	0.295	0.325

Notes:

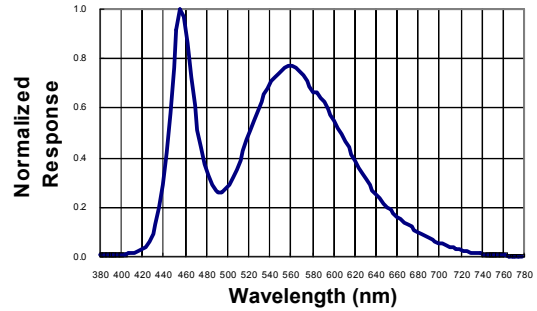
- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- q_{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- Forward voltage measurement allowance is ±0.1V
- Luminous Intensity Measurement Allowance is ±10%.

Typical Electrical / Optical Characteristics Curves
 (25°C Ambient Temperature Unless Otherwise Noted)

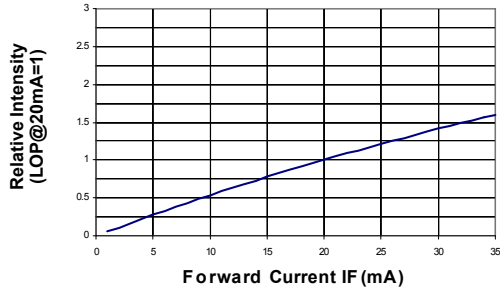
CIE 1931 Chromaticity Diagram



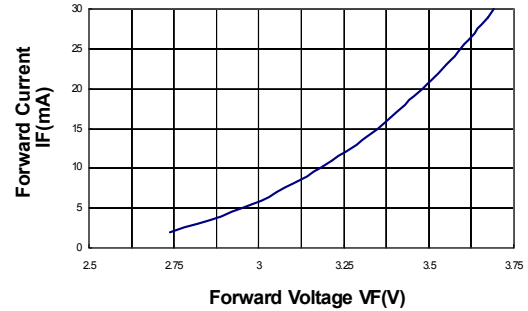
Spectral Radiance



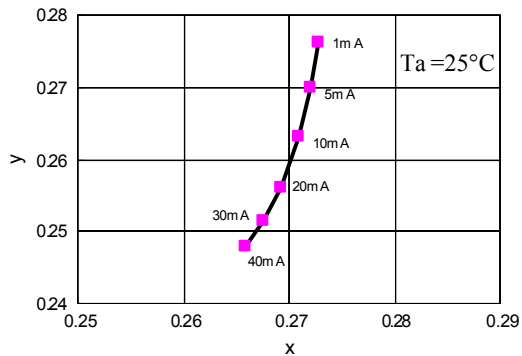
Relative Intensity vs Forward Current



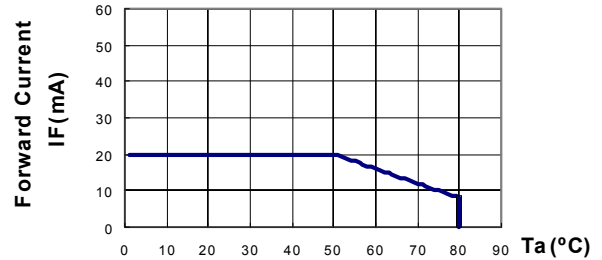
Forward Current vs Forward Voltage



Forward Current vs. Chromaticity coordinate



Forward Current Derating Curve



Beam Pattern

