

**FEATURES**

- Maximum drive current: up to 700 mA
- Maximum junction temperature: 150 °C
- Electrically neutral thermal path

**White Chromaticity Region**

Region	x	y
7D	.4259	.3853
	.4342	.4028
	.4465	.4071
	.4373	.3893

**Brightness**

Code	Min.	Max.
P4	80.6	87.4

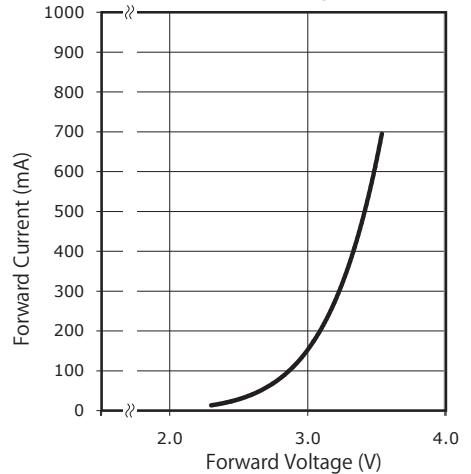
@I<sub>F</sub>: 350mA (unit : lumen)

**7090 size**  
(7.0 x 9.0mm)

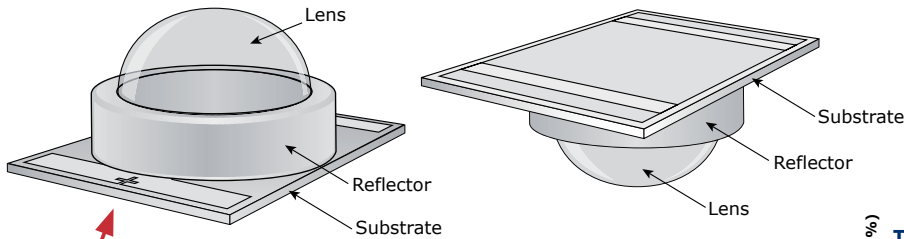
**CHARACTERISTICS**

Characteristics	Unit	Typical	Maximum
Thermal Resistance, junction to solder point	°C/w	8	
Viewing Angle (FWHM)	degrees	90	
Temperature Coefficient of Voltage	mV/°C	-4.0	
DC Forward Current	mA		700
DC pulse Current (@ 1 kHz, 10% duty cycle)	A		1.8
Reverse Voltage	V		5
Forward Voltage (@ 350 mA)	V	3.3	3.9
Forward Voltage (@ 700 mA)	V	3.5	
LED Junction Temperature	°C		150

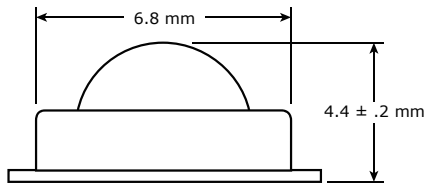
**ELECTRICAL CHARACTERISTICS**  
(T<sub>J</sub> = 25 °C)



**MECHANICAL DIMENSIONS**

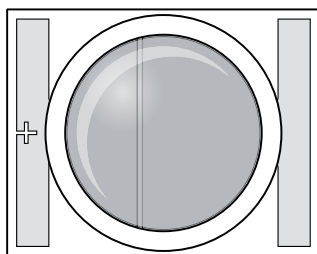
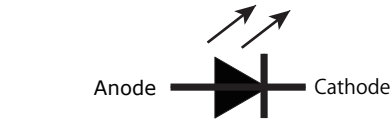
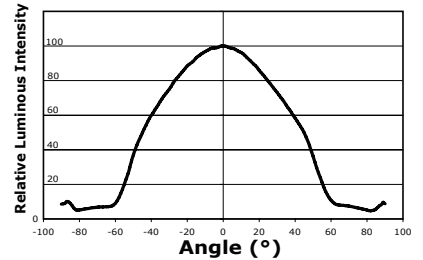


all measurements are ± .1mm unless otherwise indicated.

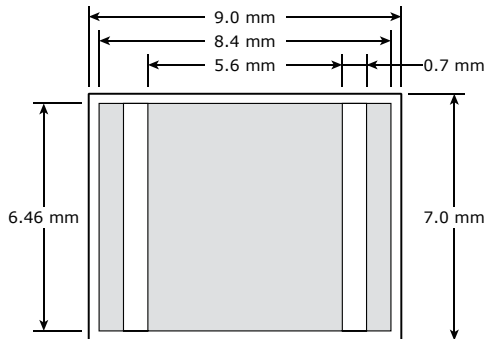


Side View

**TYPICAL SPATIAL DISTRIBUTION**

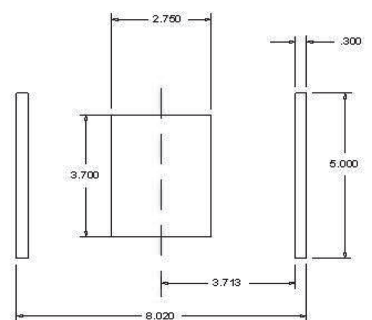


Top View



Bottom View

**Recommended PC Board Solder pad**



# XREWHT-L1-0000-009E7 ( XREWHT-L1-7D-P4 ) 3000K 80 lumen [ 7D-P4 ]

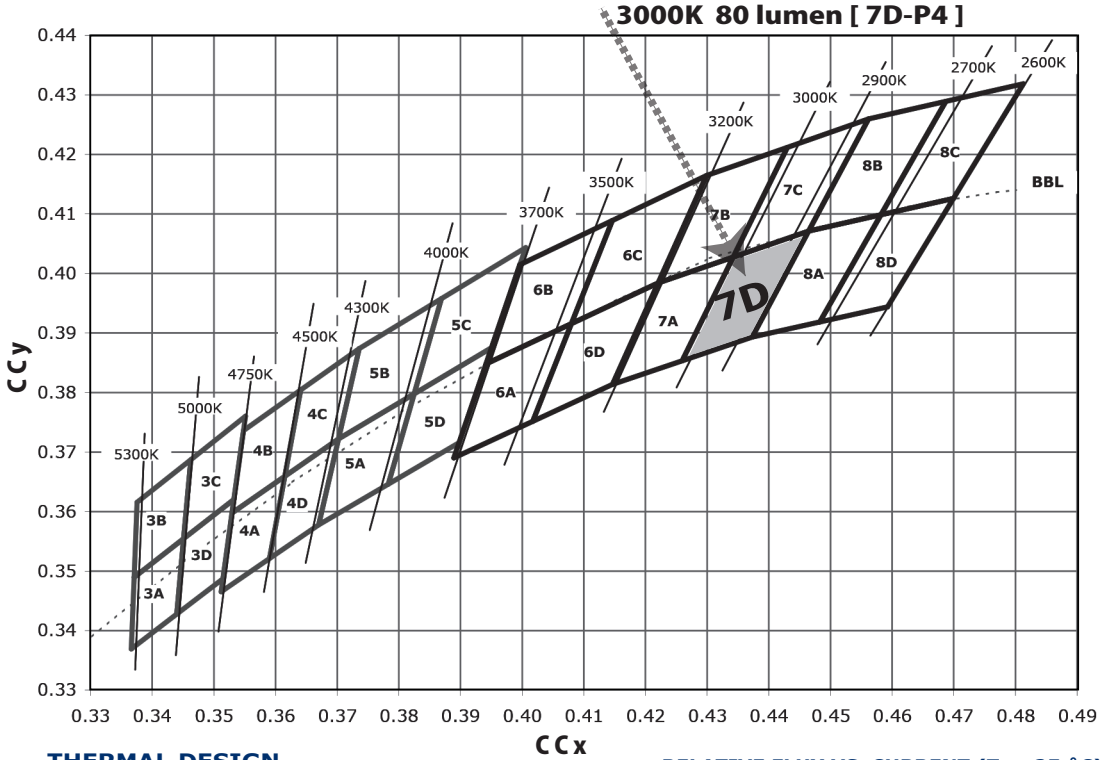
## Warm White

参考資料

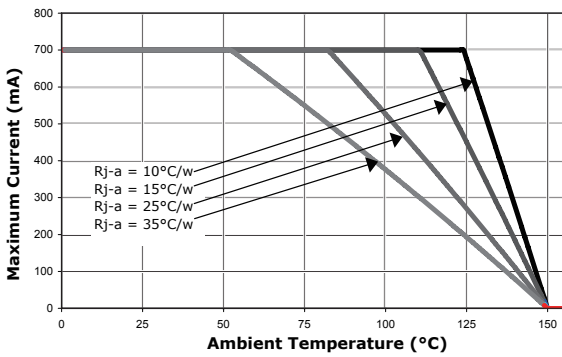
CREE'S STANDARD CHROMATICITY REGIONS PLOTTED ON THE 1931 CIE CURVE

### White Chromaticity Region

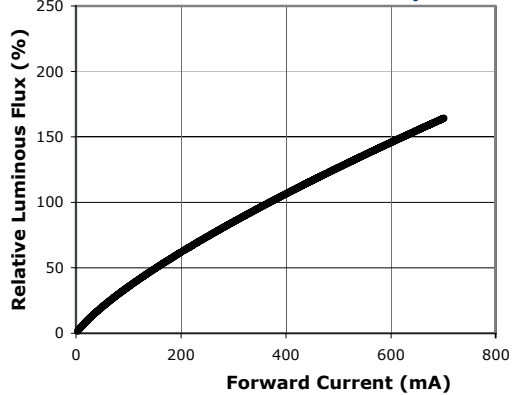
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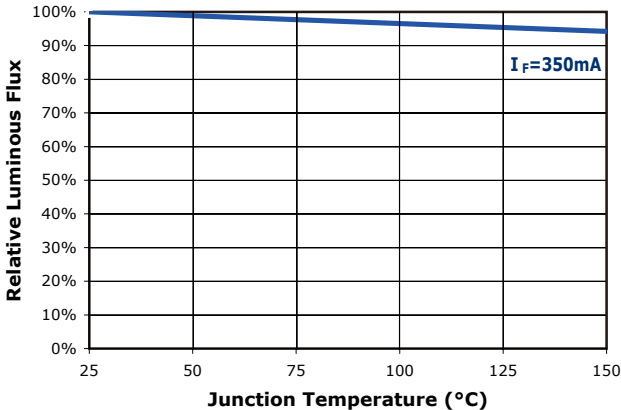
### THERMAL DESIGN



### RELATIVE FLUX VS. CURRENT ( $T_j = 25^{\circ}\text{C}$ )



### RELATIVE FLUX VS. JUNCTION TEMPERATURE



### RELATIVE SPECTRAL POWER DISTRIBUTION

