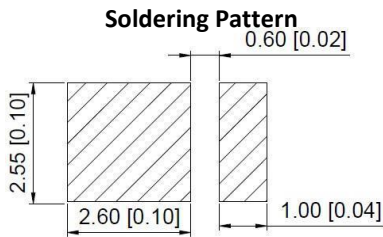
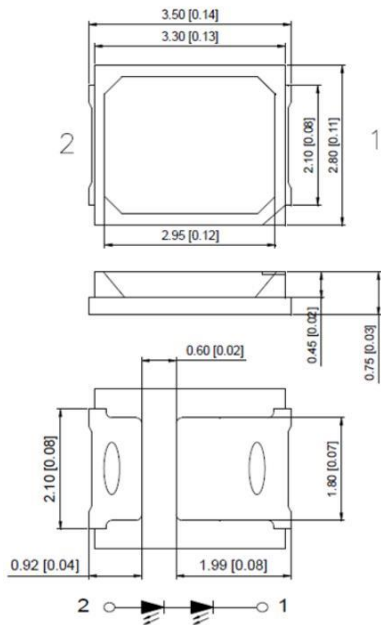


Packaging Dimensions

LM80



• **DEVELOPED SPECIALLYFOREESL STREETLIGHT**

Electrical/Optical Characteristics at Ta = 25°C

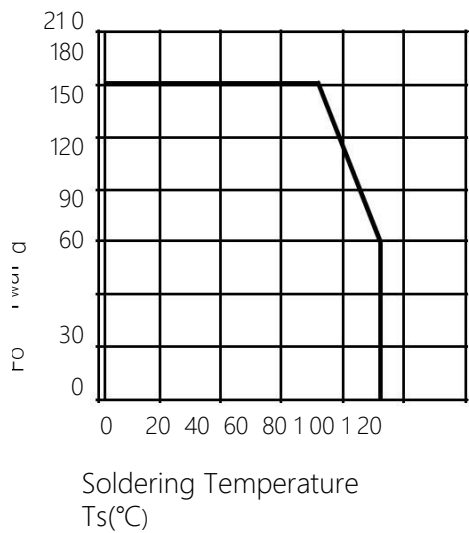
Parameters	Symbol	Min	TYP	Max.	Units	Test Condition
Forward Voltage	V _F	5.8	--	6.8	V	IF =150mA
Reverse Current	I _R	--	--	10	μA	V _R =5V
Luminous Flux (145LPW)	∅V	135	--	145	Lm	IF =150mA
Color Coordinated	X	--	0.32	--	--	IF =150mA
	Y	--	0.34	--	--	IF =150mA
Color Temperature	T _c	6000	--	6500	K	IF =150mA
Color Rendering Index	CRI	80	--	--	Ra	IF =150mA
Viewing Angle	2θ1/2		120°			IF =150mA

Absolute Maximum Rating at Ta = 25°C

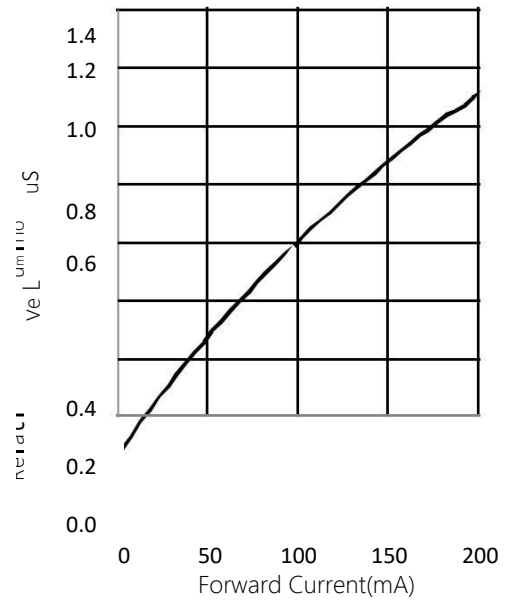
Parameter	Symbol	Rating	Units
Power Dissipation	P _d	1225	mW
DC Forward Current	I _F	225	mA
Peak Forward Current	I _{FP}	300	mA
Junction Temperature	T _j	115	°C
Electrostatic Discharge (HBM)	ESD	1000	V
Operating Temperature	T _{opr}	-40°C to +85°C	°C
Storage Temperature	T _{stg}	-40°C to +100°C	
Thermal Resistance (Junction/ Soldering point)	R _{thj-s}	21	°C/W

Typical optical characteristics curves

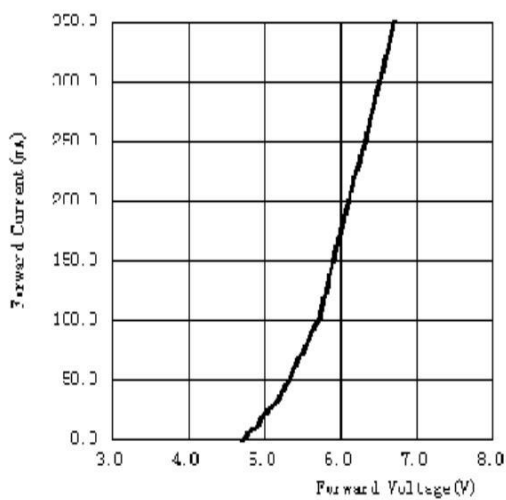
Soldering Temperature vs. Forward Current



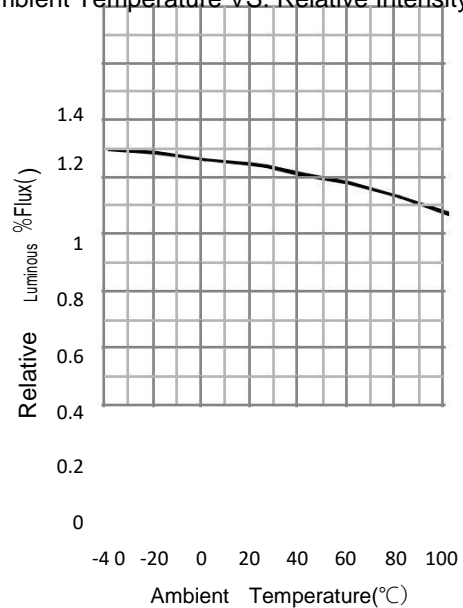
Forward Current VS. Relative Intensity



Forward Voltage VS. Forward Current

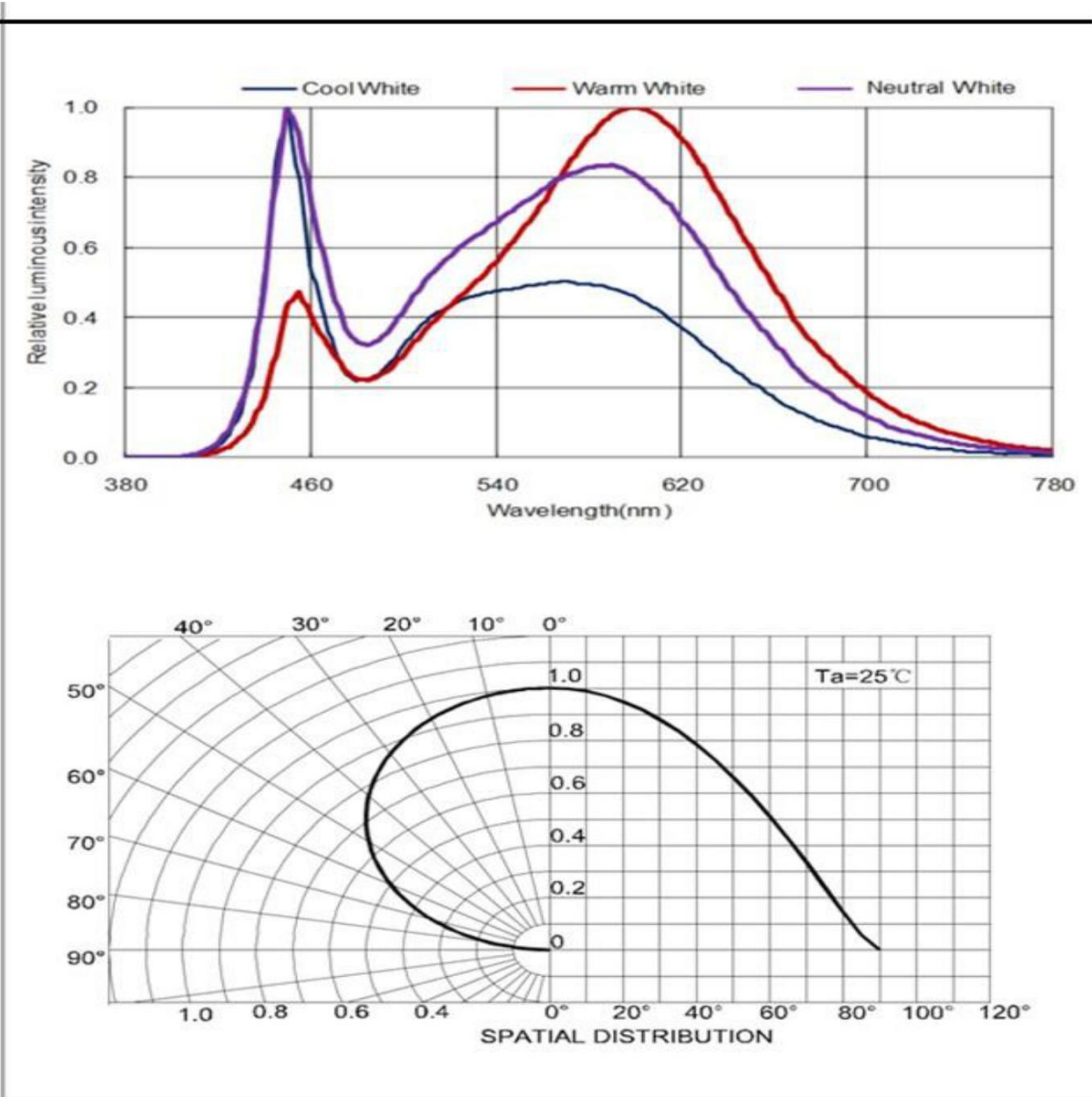


Ambient Temperature VS. Relative Intensity



Typical optical characteristics curves

Relative spectral emission



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