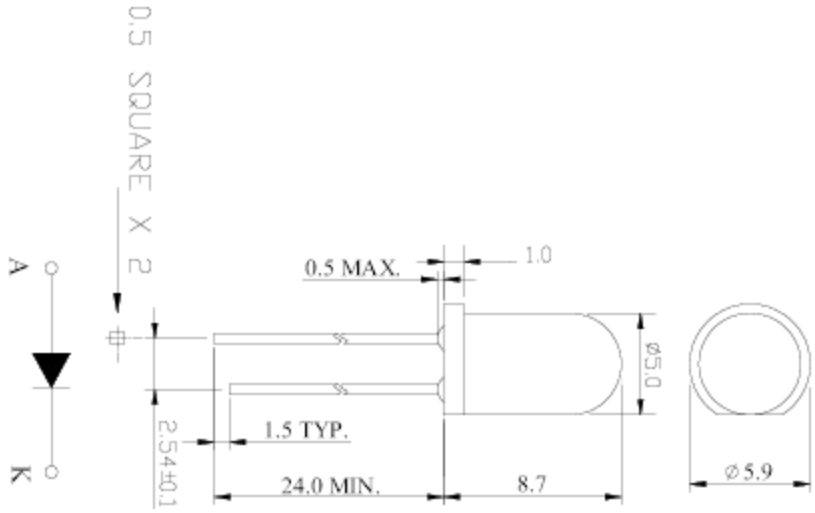
This white LED lamp is made with an Indium Gallium Nitride/Sapphire chip and a water clear epoxy resin.



SELECTOR GUIDE

Part Number	Dice	Lens Color / Type	Pack Size	View Angle 2θ 1/2
MT0318-WH-A	White	Water Clear	5mm Round 07° - 12°	10 °

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

Parameter	Symbol	Device	Min.	Typ.	Max.	Units	Test Conditions
Forward Voltage	V_F	White	-	3.2	4.0	V	20mA
Reverse Current	I_R	White	-	-	50	µA	5V
Luminous Intensity	I_V	White	4800	15000	-	mcd	20mA
Peak Wavelength	λpeak	White	-	465	-	nm	20mA
Dominant Wavelength	λD	White	-	X=.31, Y=.32	-	nm	20mA
Spectral Line Half-Width	Δλ1/2	White	-	26	-	nm	20mA

ABSOLUTE MAXIMUM RATINGS AT T_A=25°C

Parameter	Rating	Units
Forward Current (I_F)	30	mA
Power Dissipation (P_D)	120	mW
Reverse Voltage (V_R)	5	V
Operating Temperature (T_{OPR})	-25 ~ +85	°C
Storage Temperature (T_{STG})	-40 ~ +100	°C
Lead Solder Temperature (T_{SOL}) 260	@ for 5 sec. max	

1. All Dimensions Are In Millimeters (inches).
2. Tolerance Is +-0.25(0.01") Unless Otherwise Noted.
3. Specifications Are Subject To Change Without Notice.

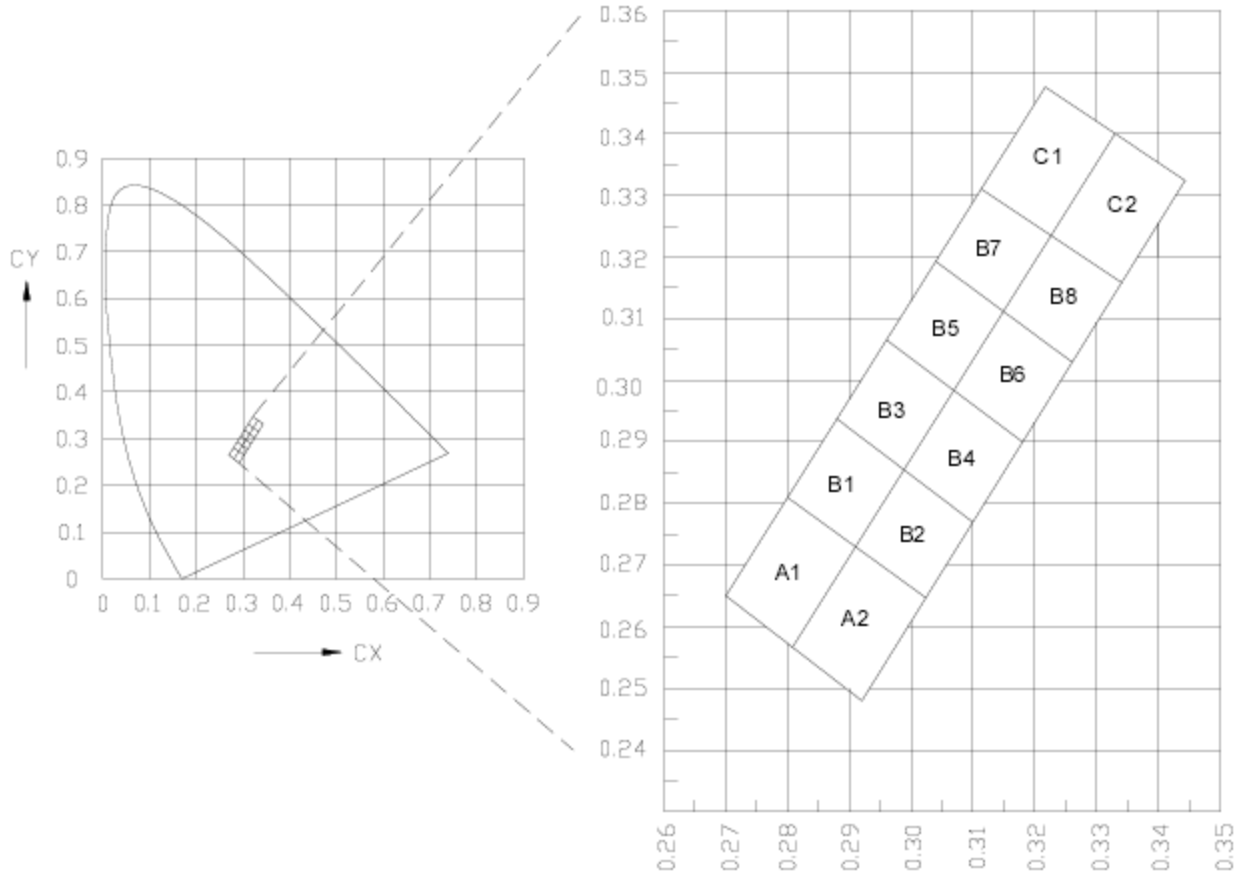
Chromaticity Coordinates Specifications for Bin Grading:

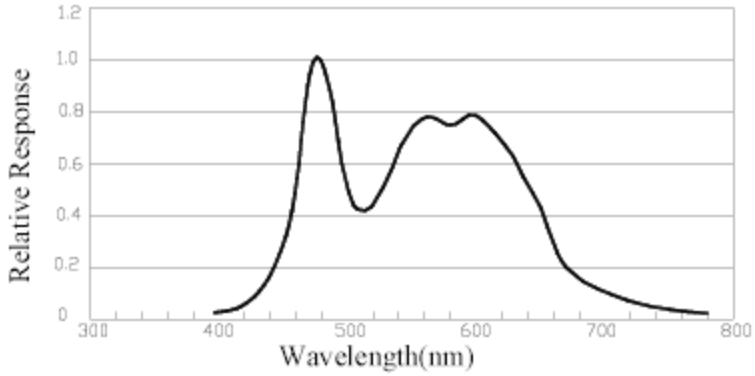
COLOR RANKS(IF=20Ma.Ta=25)

BiN	RANK					BiN	RANK				
A1	X	0.27	0.28	0.291	0.281	B5	X	0.296	0.304	0.315	0.307
	Y	0.265	0.282	0.273	0.256		Y	0.307	0.319	0.311	0.298
A2	X	0.281	0.291	0.302	0.292	B6	X	0.307	0.315	0.326	0.318
	Y	0.256	0.273	0.265	0.248		Y	0.298	0.311	0.303	0.29
B1	X	0.28	0.288	0.299	0.291	B7	X	0.304	0.312	0.323	0.315
	Y	0.282	0.294	0.286	0.273		Y	0.319	0.331	0.323	0.311
B2	X	0.291	0.299	0.31	0.302	B8	X	0.315	0.323	0.334	0.326
	Y	0.273	0.286	0.277	0.265		Y	0.311	0.323	0.315	0.303
B3	X	0.288	0.296	0.307	0.299	C1	X	0.312	0.322	0.333	0.323
	Y	0.294	0.307	0.298	0.286		Y	0.331	0.348	0.34	0.323
B4	X	0.299	0.307	0.318	0.31	C2	X	0.323	0.333	0.344	0.334
	Y	0.286	0.298	0.29	0.277		Y	0.323	0.34	0.332	0.315

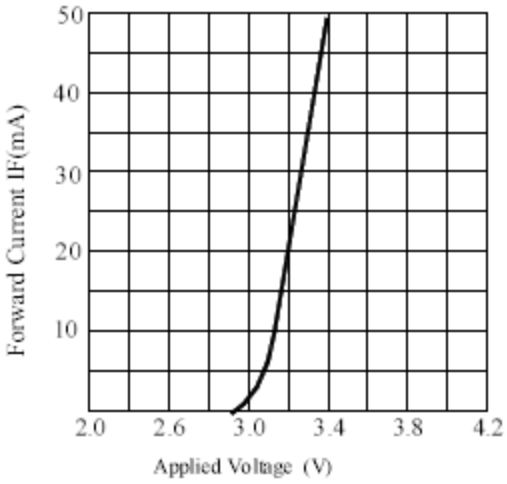
Notes:X.Y Tolereanceeach Bin limit is±0.01.

Chromaticity Coordinates & Bin grading diabram:

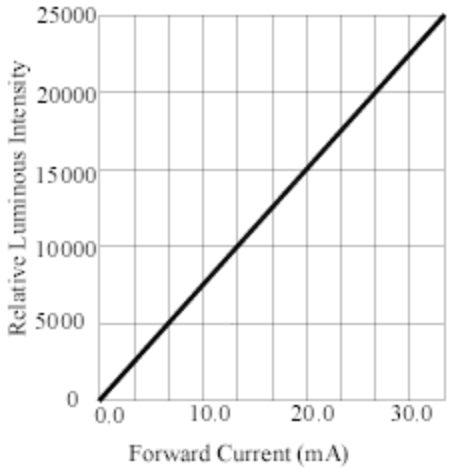




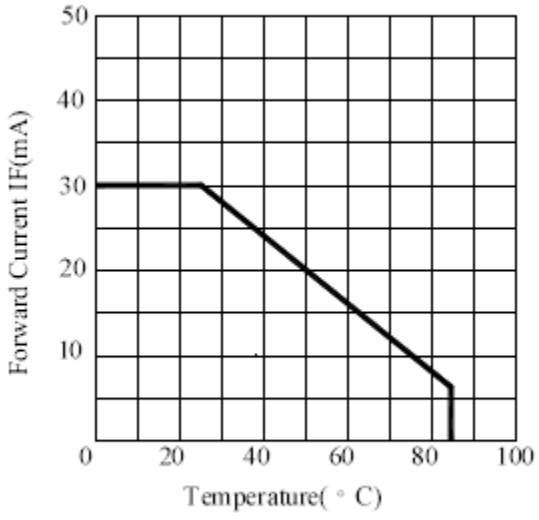
WHITE LED SPECTRUM VS. WAVELENGTH



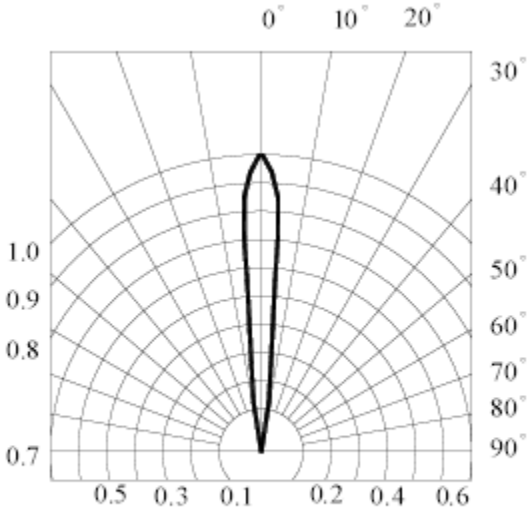
FORWARD CURRENT VS. APPLIED VOLTAGE



FORWARD CURRENT VS. LUMINOUS INTENSITY



FORWARD CURRENT VS. AMBIENT TEMPERATURE



RADIATION DIAGRAM