



LED Middle POWER

5630 Product Data Sheet

AQLxx Series

Created Date: 06 / 24 / 2014
Version: 3



LED Middle POWER 5630AQLxx Series

1. Description

The LiteON 5630 Product series is a wide beam angle standard-dimension package, combining the lifetime and reliability advantages of Light Emitting Diodes with the brightness of conventional lighting. It gives you total design freedom and unmatched brightness, creating a new opportunities for solid state lighting to displace conventional lighting technologies.

1.1 Features

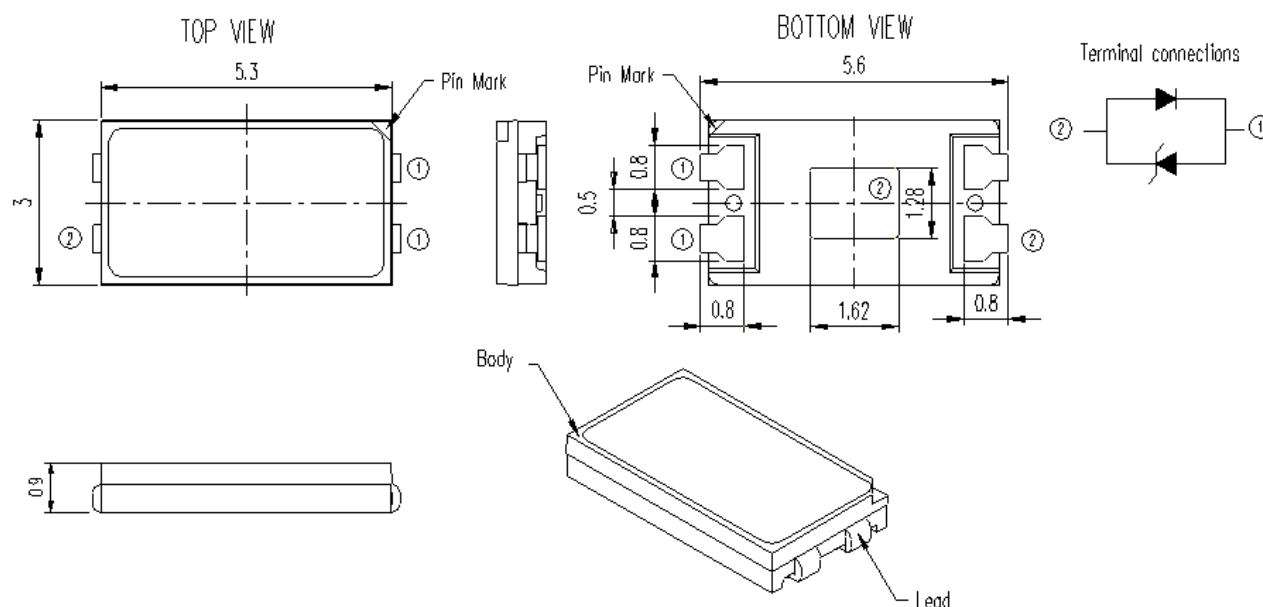
- Package in 8mm tape on 7" diameter reels.
- Compatible with automatic placement equipment.
- Compatible with infrared and vapor phase reflow solder process.
- EIA STD package.
- I.C. compatible.
- Meet green product and Pb-free(According to RoHS)

1.2 Available Part Numbers

CCT	Part Number
6500K	LTW-5630AQL65
5700K	LTW-5630AQL57
5000K	LTW-5630AQL50
4000K	LTW-5630AQL40
3500K	LTW-5630AQL35
3000K	LTW-5630AQL30
2700K	LTW-5630AQL27

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2. Outline Dimensions



Part No.	Lens Color	Source Color
LTW-5630AQL65	Orange	InGaN Blue
LTW-5630AQL57		
LTW-5630AQL50		
LTW-5630AQL40		
LTW-5630AQL35		
LTW-5630AQL30		
LTW-5630AQL27		

Notes:

1. All dimensions are in millimeters.
2. Tolerance is ± 0.2 mm (.008") unless otherwise noted.

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3. Absolute Maximum Ratings at $T_a=25^{\circ}\text{C}$

Parameter	Symbol	Rating	Unit
Power Dissipation	P_o	700	mW
Continuous Forward Current	I_F	200	mA
Pulse Forward Current	I_{FP}	260	mA
Operating Temperature Range	T_{opr}	$-40 \sim +85$	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	$-40 \sim +100$	$^{\circ}\text{C}$
Junction Temperature	T_j	≤ 120	$^{\circ}\text{C}$

Notes :

1. 1/10 duty cycle, Pulse width $\leq 100 \mu\text{s}$.
2. Forbid to operating at reverse voltage condition for long.
3. It is recommended to follow de-rating curve to use maximum rating to ensure LED can operated normally.

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4. Electro-Optical Characteristics

4.1 Typical Performance

Parameter	Symbol	Values								Unit	Test Condition
Correlated Color Temp.	CCT	Typ.	2700	3000	3500	4000	5000	5700	6500	'K	
Chromaticity	x	Typ.	0.458	0.434	0.408	0.382	0.345	0.329	0.312	-	I _F = 120mA
Coordinates	y	Typ.	0.410	0.403	0.392	0.380	0.355	0.342	0.328		
Luminous Flux ¹	Φ _v	Min	33.5	35.0	36.5	36.5	36.5	36.5	36.5	lm	
		Typ.	40.7	43.1	43.9	43.9	43.9	44.7	43.1		
		Max.	47.0	48.5	50.0	50.0	50.0	50.0	50.0		
Optical Efficiency	η _{opt}	Typ.	108.4	110.5	117.2	118.5	118.5	118.5	117.2	lm/W	
Color Rendering Index	CRI	Min.	90							-	
Viewing Angle	2θ _{1/2}	Typ.	120							deg	
Forward Voltage	V _F	Min	2.9							V	
		Typ.	3.13								
		Max.	3.3								
Thermal Resistance	R _{jt}	Typ.	15							°C/W	
ESD-Withstand Voltage	ESD	Min	5K							HBM	V

Notes

1. Luminous flux is the total luminous flux output as measured with an integrating sphere.
2. Iv (flux Φ_v) classification code is marked on each packing bag.
3. The chromaticity coordinates (x, y) is derived from the 1931 CIE chromaticity diagram.
4. Caution in ESD:

Static Electricity and surge damages the LED. It is recommended using a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

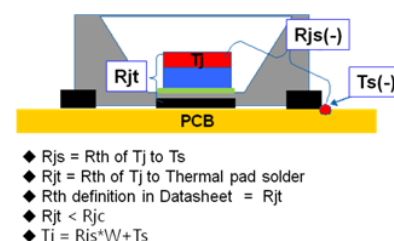
5. CAS140B is the test standard for the chromaticity coordinates (x, y) & Φ_v .
6. The chromaticity coordinates (x, y) guarantee should be added +/- 0.01 tolerances
7. CRI measurement allowance is ± 5 , R9 is >50.
8. The thermal resistance is defined

as the figure, R_{jt} is the R_{th} from T_j to thermal pad solder:

Reference for thermal resistance:

Using 2.5x 2.5x 0.17 cm aluminum MCPCB,

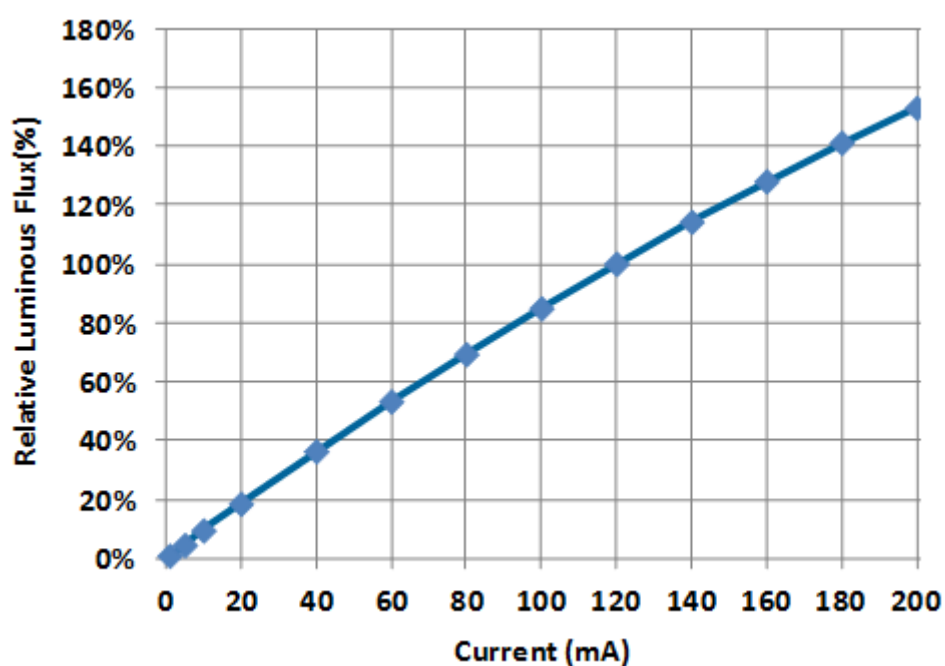
$R_{jt}=15^\circ\text{C/W}$, $R_{js}=19^\circ\text{C/W}$



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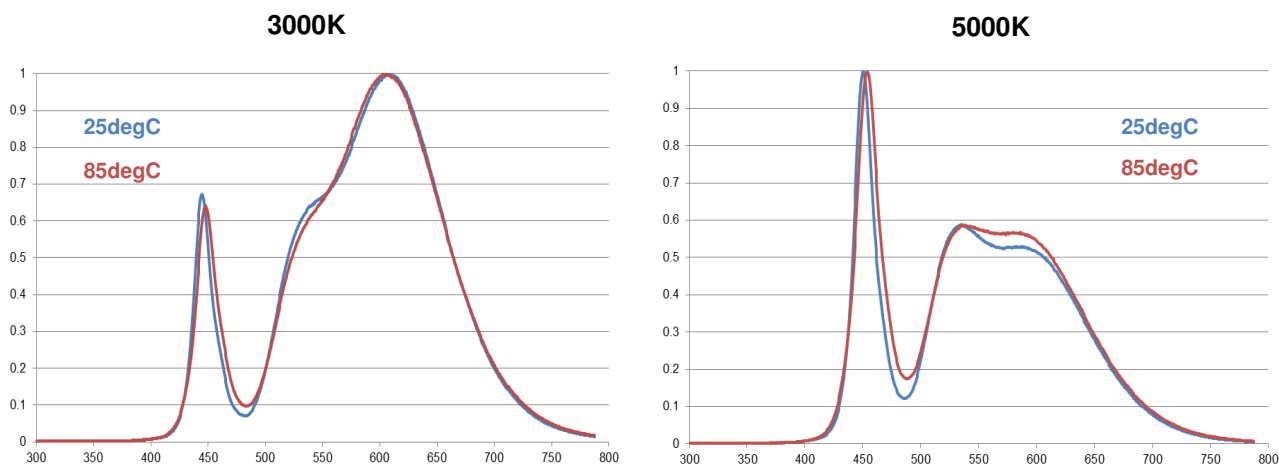
4.2 Forward Current vs. Lumen and Voltage

Current (mA)	VF (V)	Lumen (lm)						
		2700K	3000K	3500K	4000K	5000K	5700K	6500K
20	2.76	7.5	8.0	8.1	8.1	8.1	8.2	8.0
40	2.85	14.7	15.7	16.0	16.0	16.0	16.3	15.7
60	2.93	21.6	23.0	23.4	23.4	23.4	23.7	22.9
80	3.00	28.0	30.0	30.5	30.4	30.4	31.0	30.0
100	3.06	34.5	36.7	37.3	37.3	37.3	38.0	36.6
120	3.13	40.7	43.1	43.9	43.9	43.9	44.7	43.1
140	3.19	46.3	49.2	50.1	50.2	50.2	51.1	49.3
160	3.25	52.0	55.3	56.3	56.3	56.3	57.2	55.3
180	3.31	57.2	60.9	62.0	62.0	62.0	63.1	60.9
200	3.36	62.0	66.0	67.2	67.2	67.2	68.3	66.0

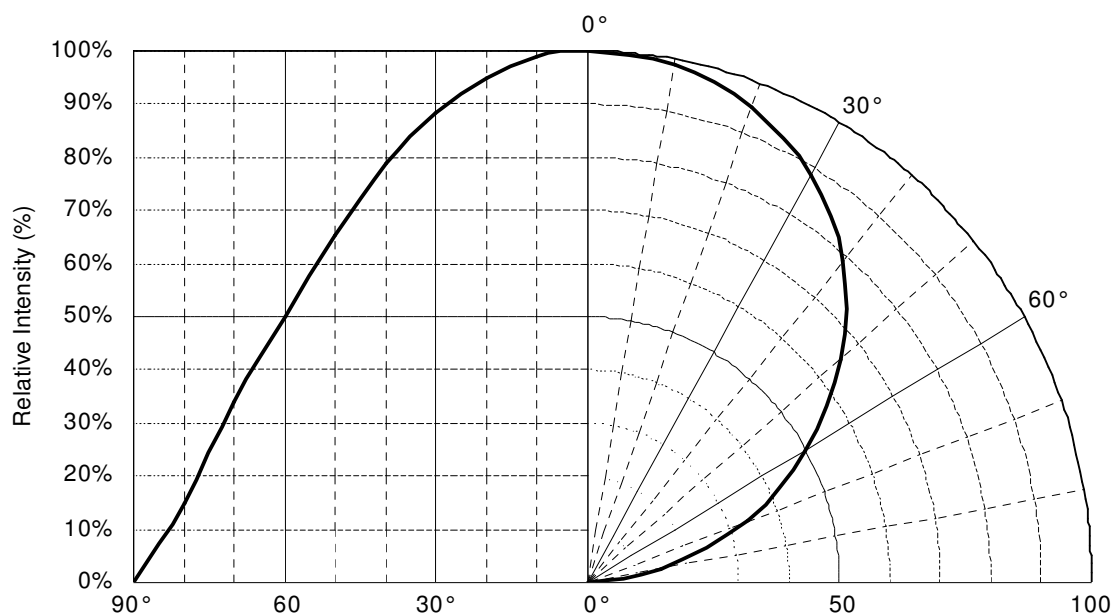


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4.3 Relative Spectral Power Distribution at Typical Current

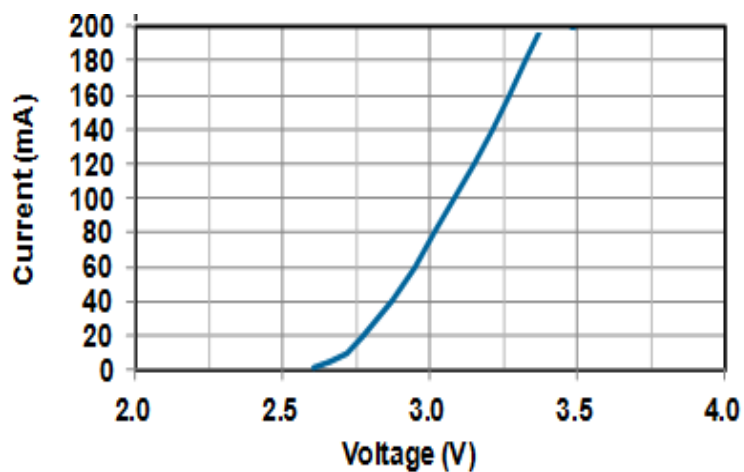


4.4 Radiation Characteristics

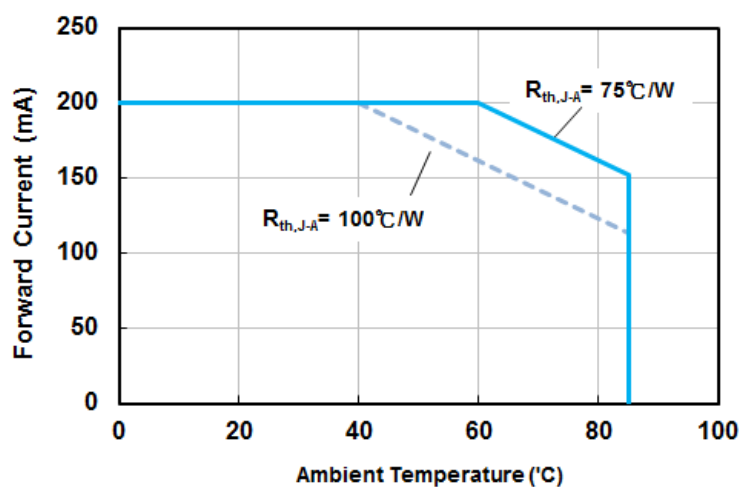


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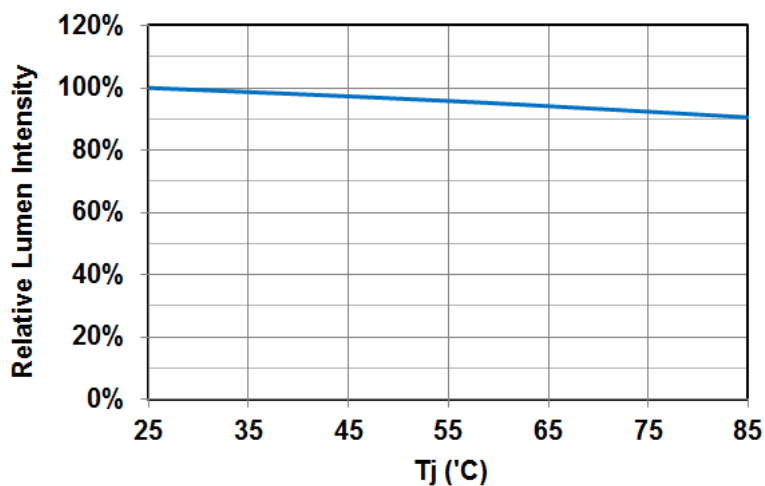
4.5 Forward Current vs. Forward Voltage



4.6 Forward Current Derating Curve vs. Ambient Temperature

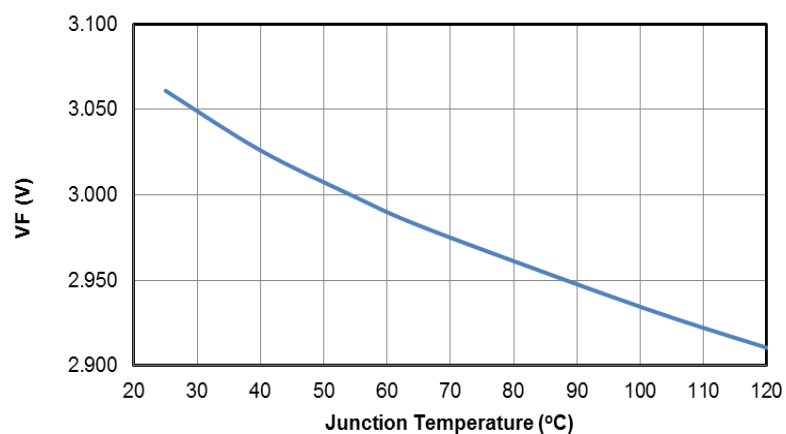


4.7 Relative Intensity vs. Junction Temperature



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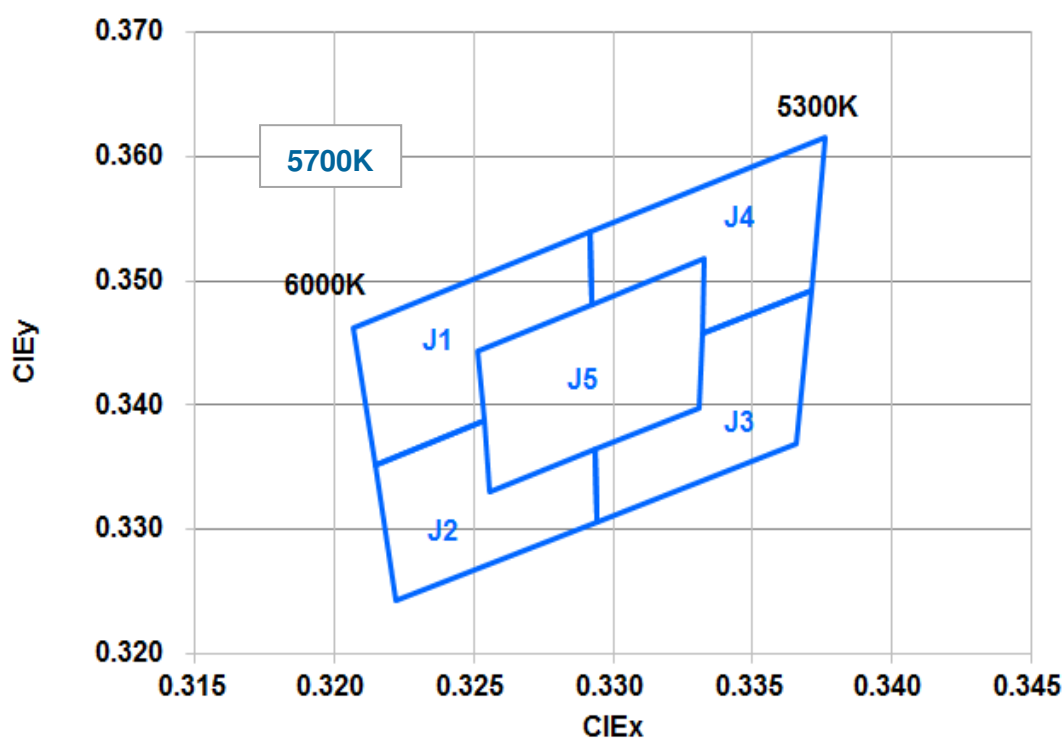
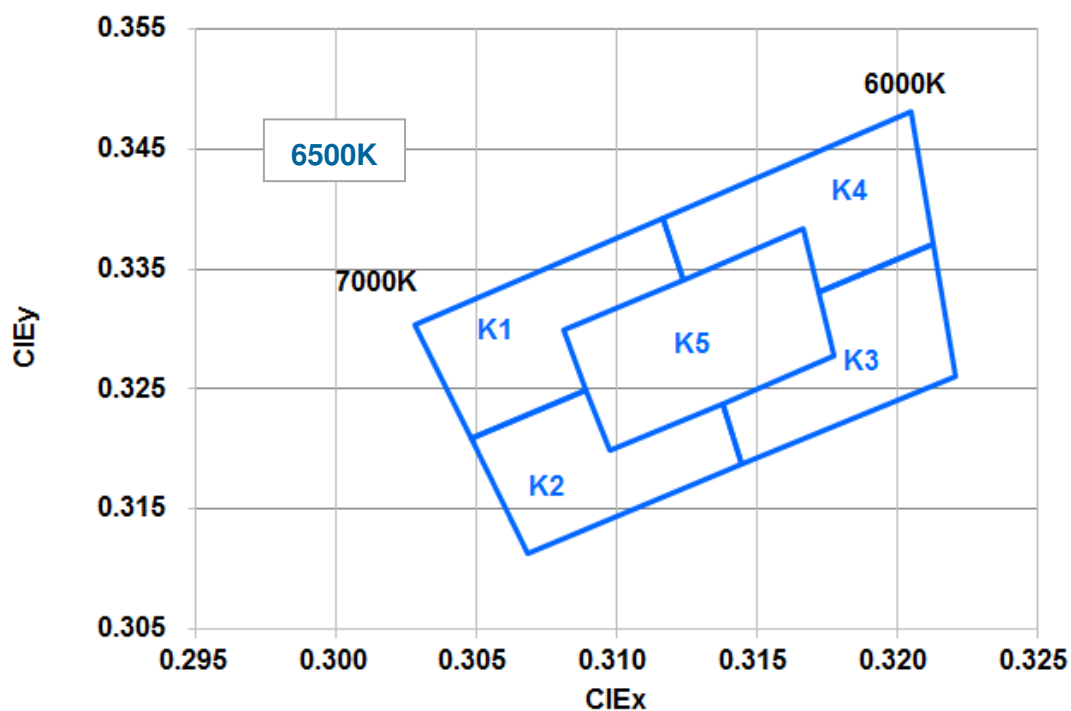
4.8 Forward Voltage vs. Junction Temperature



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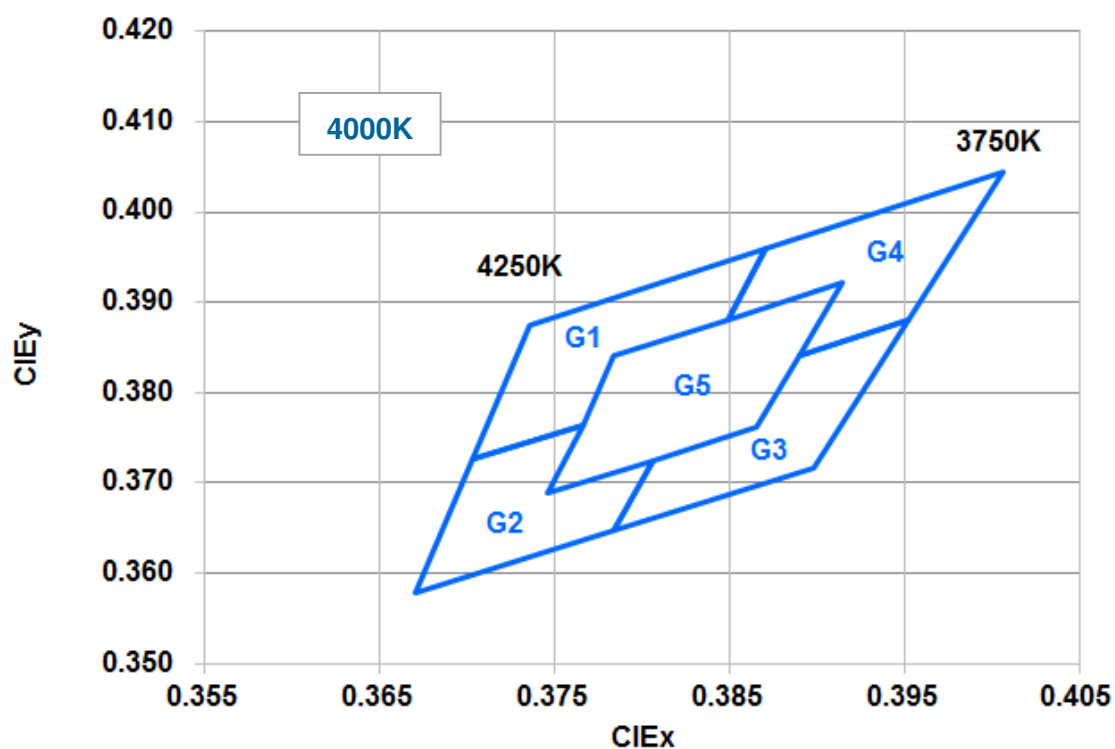
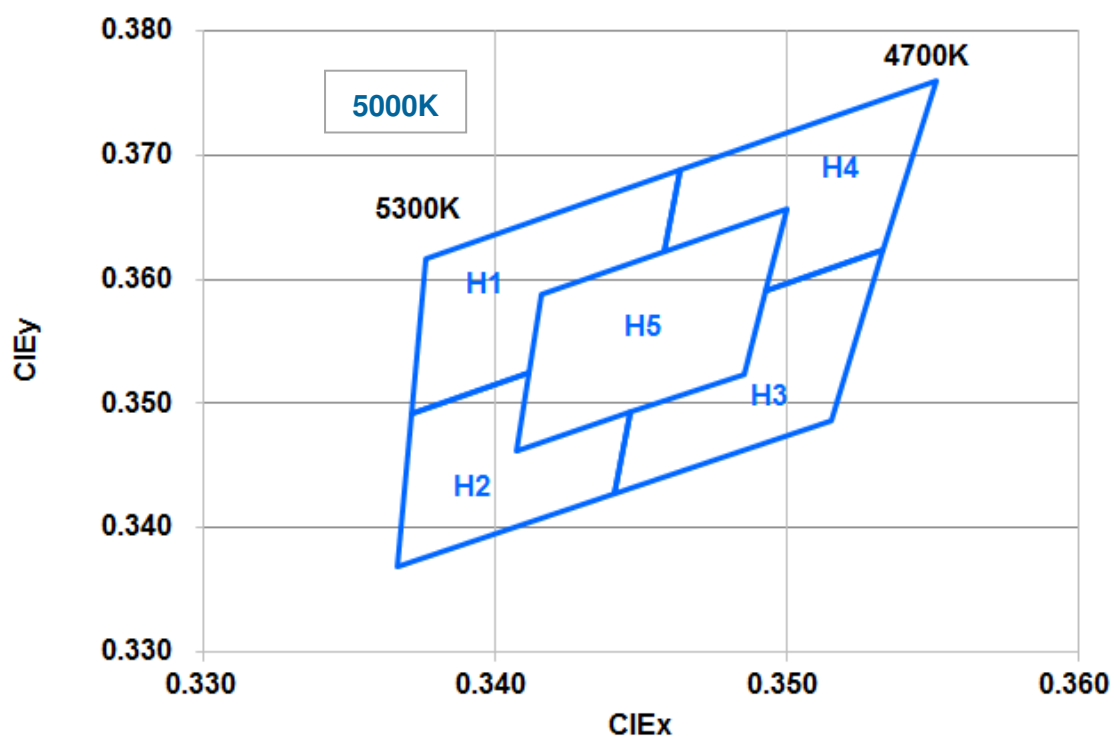
5. Binning Definition

5.1 Color Bin



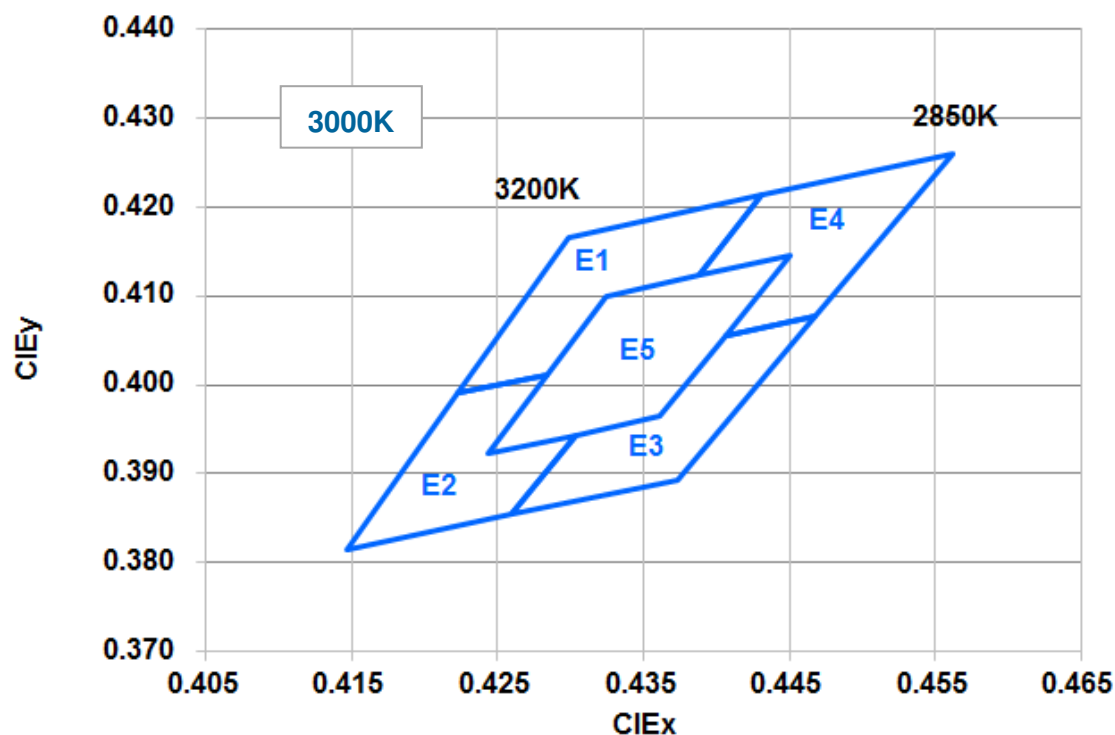
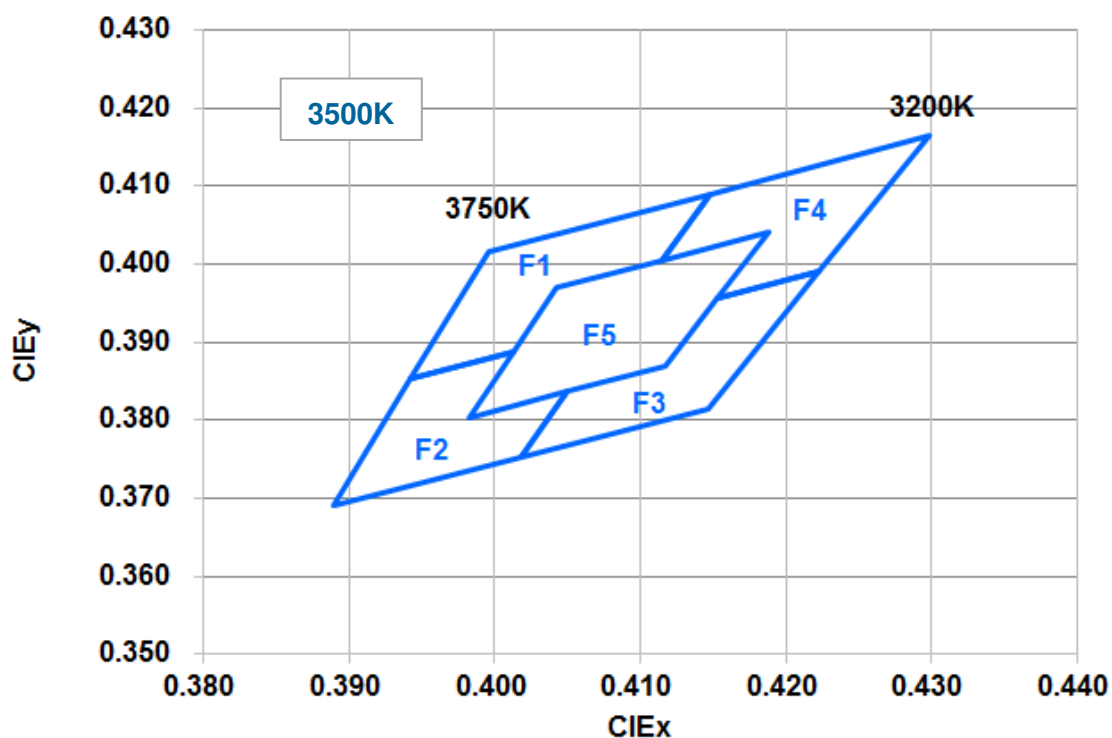


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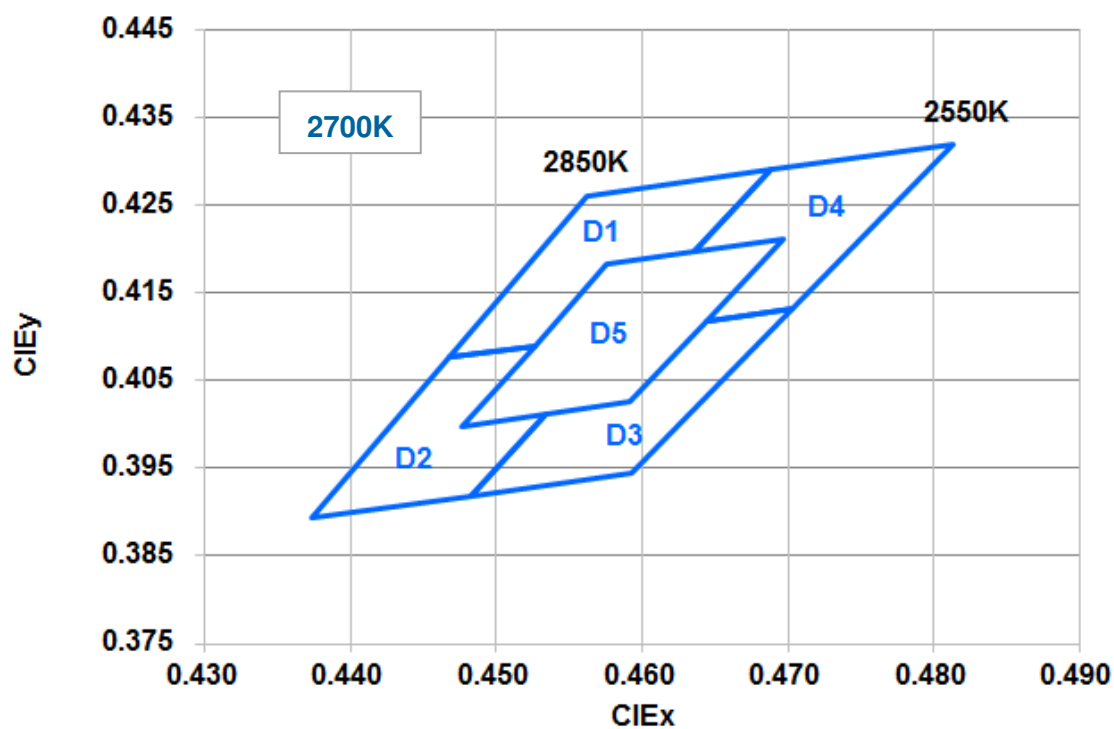


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5.2 Color Rank

6500K ($I_F = 120 \text{ mA}$)											
Rank	-	x	y	Rank	-	x	y	Rank	-	x	y
K1	1	0.3048	0.3209	K3	1	0.3145	0.3187	K5	1	0.3098	0.3200
	2	0.3028	0.3304		2	0.3138	0.3238		2	0.3081	0.3299
	3	0.3117	0.3393		3	0.3177	0.3277		3	0.3166	0.3384
	4	0.3124	0.3341		4	0.3172	0.3330		4	0.3177	0.3277
	5	0.3081	0.3299		5	0.3213	0.3371				
	6	0.3089	0.3249		6	0.3221	0.3261				
K2	1	0.3068	0.3113	K4	1	0.3117	0.3393				
	2	0.3048	0.3209		2	0.3205	0.3481				
	3	0.3089	0.3249		3	0.3213	0.3371				
	4	0.3098	0.3200		4	0.3172	0.3330				
	5	0.3138	0.3238		5	0.3166	0.3384				
	6	0.3145	0.3187		6	0.3124	0.3341				

Tolerance on each Hue bin (x,y) is +/- 0.01.

5700K ($I_F = 120 \text{ mA}$)											
Rank	-	x	y	Rank	-	x	y	Rank	-	x	y
J1	1	0.3215	0.3353	J3	1	0.3294	0.3306	J5	1	0.3256	0.3331
	2	0.3207	0.3462		2	0.3293	0.3364		2	0.3251	0.3444
	3	0.3292	0.3539		3	0.3331	0.3398		3	0.3333	0.3518
	4	0.3292	0.3481		4	0.3332	0.3458		4	0.3331	0.3398
	5	0.3251	0.3444		5	0.3371	0.3493				
	6	0.3254	0.3388		6	0.3366	0.3369				
J2	1	0.3222	0.3243	J4	1	0.3292	0.3539				
	2	0.3215	0.3353		2	0.3376	0.3616				
	3	0.3254	0.3388		3	0.3371	0.3493				
	4	0.3256	0.3331		4	0.3332	0.3458				
	5	0.3293	0.3364		5	0.3333	0.3518				
	6	0.3294	0.3306		6	0.3292	0.3481				

Tolerance on each Hue bin (x,y) is +/- 0.01.

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5000K ($I_F = 120 \text{ mA}$)											
Rank	-	x	y	Rank	-	x	y	Rank	-	x	y
H1	1	0.3371	0.3493	H3	1	0.3441	0.3428	H5	1	0.3407	0.3462
	2	0.3376	0.3616		2	0.3446	0.3493		2	0.3416	0.3589
	3	0.3464	0.3688		3	0.3485	0.3524		3	0.3500	0.3657
	4	0.3458	0.3623		4	0.3493	0.3591		4	0.3485	0.3524
	5	0.3416	0.3589		5	0.3533	0.3624				
	6	0.3412	0.3525		6	0.3515	0.3487				
H2	1	0.3366	0.3369	H4	1	0.3464	0.3688				
	2	0.3371	0.3493		2	0.3551	0.3760				
	3	0.3412	0.3525		3	0.3533	0.3624				
	4	0.3407	0.3462		4	0.3493	0.3591				
	5	0.3446	0.3493		5	0.3500	0.3657				
	6	0.3441	0.3428		6	0.3458	0.3623				

Tolerance on each Hue bin (x,y) is +/- 0.01.

4000K ($I_F = 120 \text{ mA}$)											
Rank	-	x	y	Rank	-	x	y	Rank	-	x	y
G1	1	0.3703	0.3726	G3	1	0.3784	0.3647	G5	1	0.3746	0.3689
	2	0.3736	0.3874		2	0.3806	0.3725		2	0.3784	0.3841
	3	0.3871	0.3959		3	0.3865	0.3762		3	0.3914	0.3922
	4	0.3849	0.3881		4	0.3890	0.3842		4	0.3865	0.3762
	5	0.3784	0.3841		5	0.3952	0.3880				
	6	0.3766	0.3765		6	0.3898	0.3716				
G2	1	0.3670	0.3578	G4	1	0.3871	0.3959				
	2	0.3703	0.3726		2	0.4006	0.4044				
	3	0.3766	0.3765		3	0.3952	0.3880				
	4	0.3746	0.3689		4	0.3890	0.3842				
	5	0.3806	0.3725		5	0.3914	0.3922				
	6	0.3784	0.3647		6	0.3849	0.3881				

Tolerance on each Hue bin (x,y) is +/- 0.01.

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3500K ($I_F = 120\text{ mA}$)											
Rank	-	x	y	Rank	-	x	y	Rank	-	x	y
F1	1	0.3943	0.3853	F3	1	0.4018	0.3752	F5	1	0.3983	0.3804
	2	0.3996	0.4015		2	0.4050	0.3837		2	0.4042	0.3970
	3	0.4148	0.4090		3	0.4118	0.3869		3	0.4188	0.4041
	4	0.4115	0.4006		4	0.4153	0.3955		4	0.4118	0.3869
	5	0.4042	0.3970		5	0.4223	0.3990				
	6	0.4013	0.3887		6	0.4147	0.3814				
F2	1	0.3889	0.3690	F4	1	0.4148	0.4090				
	2	0.3943	0.3853		2	0.4299	0.4165				
	3	0.4013	0.3887		3	0.4223	0.3990				
	4	0.3983	0.3804		4	0.4153	0.3955				
	5	0.4050	0.3837		5	0.4188	0.4041				
	6	0.4018	0.3752		6	0.4115	0.4006				

Tolerance on each Hue bin (x,y) is +/- 0.01.

3000K ($I_F = 120\text{ mA}$)											
Rank	-	x	y	Rank	-	x	y	Rank	-	x	y
E1	1	0.4223	0.3990	E3	1	0.4260	0.3854	E5	1	0.4244	0.3923
	2	0.4299	0.4165		2	0.4303	0.3943		2	0.4324	0.4100
	3	0.4431	0.4213		3	0.4361	0.3964		3	0.4451	0.4146
	4	0.4388	0.4123		4	0.4406	0.4055		4	0.4361	0.3964
	5	0.4324	0.4100		5	0.4468	0.4077				
	6	0.4284	0.4011		6	0.4373	0.3893				
E2	1	0.4147	0.3814	E4	1	0.4431	0.4213				
	2	0.4223	0.3990		2	0.4562	0.4260				
	3	0.4284	0.4011		3	0.4468	0.4077				
	4	0.4244	0.3923		4	0.4406	0.4055				
	5	0.4303	0.3943		5	0.4451	0.4146				
	6	0.4260	0.3854		6	0.4388	0.4123				

Tolerance on each Hue bin (x,y) is +/- 0.01.

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2700K ($I_F = 120 \text{ mA}$)											
Rank	-	x	y	Rank	-	x	y	Rank	-	x	y
D1	1	0.4468	0.4077	D3	1	0.4483	0.3919	D5	1	0.4477	0.3998
	2	0.4562	0.4260		2	0.4534	0.4011		2	0.4576	0.4183
	3	0.4688	0.4290		3	0.4591	0.4025		3	0.4697	0.4211
	4	0.4636	0.4197		4	0.4644	0.4118		4	0.4591	0.4025
	5	0.4576	0.4183		5	0.4703	0.4132				
	6	0.4527	0.4090		6	0.4593	0.3944				
D2	1	0.4373	0.3893	D4	1	0.4688	0.4290				
	2	0.4468	0.4077		2	0.4813	0.4319				
	3	0.4527	0.4090		3	0.4703	0.4132				
	4	0.4477	0.3998		4	0.4644	0.4118				
	5	0.4534	0.4011		5	0.4697	0.4211				
	6	0.4483	0.3919		6	0.4636	0.4197				

Tolerance on each Hue bin (x,y) is +/- 0.01.

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5.3 Flux Bin

2700K	Φ_v Luminous Flux Spec. Table	
Φ_v Bin	Lumen (lm) at $I_F = 120$ mA	
	Min	Max
CF	33.5	38
FI	38.0	42.5
IL	42.5	47

4000K	Φ_v Luminous Flux Spec. Table	
Φ_v Bin	Lumen (lm) at $I_F = 120$ mA	
	Min	Max
EH	36.5	41.0
HK	41.0	45.5
KN	45.5	50

3000K	Φ_v Luminous Flux Spec. Table	
Φ_v Bin	Lumen (lm) at $I_F = 120$ mA	
	Min	Max
DG	35	39.5
GJ	39.5	44.0
JM	44.0	48.5

5000K	Φ_v Luminous Flux Spec. Table	
Φ_v Bin	Lumen (lm) at $I_F = 120$ mA	
	Min	Max
EH	36.5	41.0
HK	41.0	45.5
KN	45.5	50

3500K	Φ_v Luminous Flux Spec. Table	
Φ_v Bin	Lumen (lm) at $I_F = 120$ mA	
	Min	Max
EH	36.5	41.0
HK	41.0	45.5
KN	45.5	50

5700K	Φ_v Luminous Flux Spec. Table	
Φ_v Bin	Lumen (lm) at $I_F = 120$ mA	
	Min	Max
EH	36.5	41.0
HK	41.0	45.5
KN	45.5	50

6500K	Φ_v Luminous Flux Spec. Table	
Φ_v Bin	Lumen (lm) at $I_F = 120$ mA	
	Min	Max
EH	36.5	41.0
HK	41.0	45.5
KN	45.5	50

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5.4 Voltage Bin

V_F Spec. Table		
V_F Bin	Forward Voltage (volts) at $I_F = 120\text{mA}$	
	Min	Max
V1	2.9	3.1
V2	3.1	3.2
V3	3.2	3.3

Tolerance on each Forward Voltage bin is +/- 0.1V

6. Bin Code List

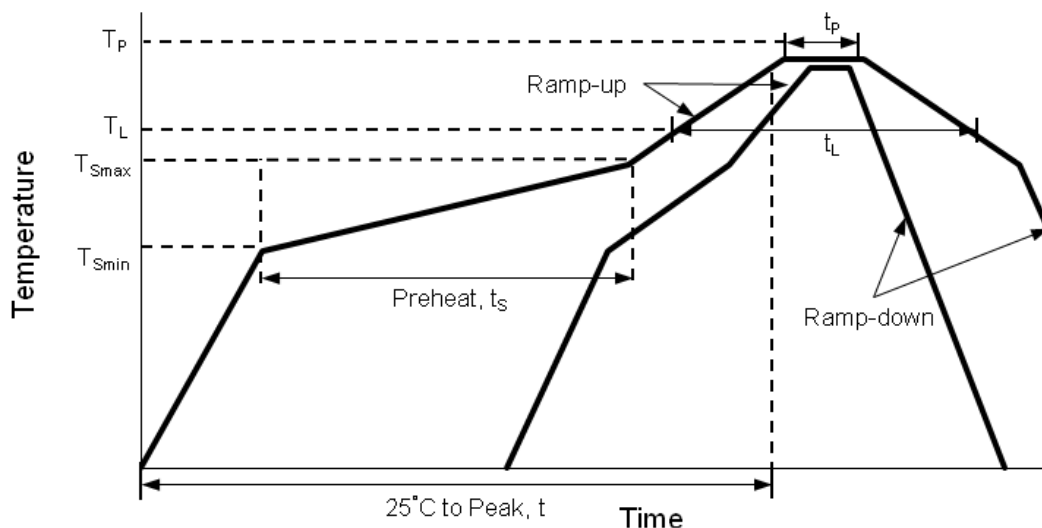
※ Notes: Full Rank on Label

Example: V1 / HK / G5

Forward Voltage Rank	Luminous Flux Rank	Color Rank
V1	HK	G5

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7. Reflow Soldering Characteristics



Profile Feature	Lead Free Assembly
Average Ramp-Up Rate (T _{Smax} to T _P)	3 °C / second max
Preheat Temperature Min (T _{Smin})	150 °C
Preheat Temperature Max (T _{Smax})	200 °C
Preheat Time (t _{Smin} to t _{Smax})	60 – 180 seconds
Time Maintained Above Temperature (T _L)	217 °C
Time Maintained Above Time (t _L)	60 – 150 seconds
Peak / Classification Temperature (T _P)	260 °C
Time Within 5 °C of Actual Peak Temperature (t _p)	5 seconds
Ramp – Down Rate	6 °C / second max
Time 25 °C to Peak Temperature	8 minutes max

Notes:

- The LEDs can be soldered using the reflow soldering or hand soldering method. The recommended hand soldering condition is 350 °C max. and 2 secs max. for one time only, and the recommended reflow soldering condition is 260 °C max. and 5 secs max. for three times max.
- All temperatures refer to topside of the package, measured on the package body surface.

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3. The soldering condition referring to J-STD-020. The storage ambient for the LEDs should not exceed 30 °C temperature or 70% relative humidity. It is recommended that LEDs out of their original packaging are soldered within one week. For extended storage out of their original packaging, it is recommended that the LEDs were stored in a sealed container with appropriate desiccant, or desiccators with nitrogen ambient. If the LEDs were unpacked more than 168hrs, baking the LEDs at 60 °C for 60 mins before soldering process.
4. The soldering profile could be further referred to different soldering grease material characteristic. The grease vendor will provide this information.
5. A rapid-rate process is not recommended for the LEDs cooling down from the peak temperature.
6. Although the recommended reflow conditions are specified above, the reflow or hand soldering condition at the lowest possible temperature is desirable for the LEDs.
7. LiteOn cannot make a guarantee on the LEDs which have been already assembled using the dip soldering method.

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8. Reliability Test

No	Test item	Test Condition	Duration	Number of Damaged
1	Steady State Operating Life of High Temperature (HTOL)	Ts=55°C, I _F =120mA	1000 hrs	0/20
2	Steady State Operating Life of High Temperature (HTOL)	Ts=85°C, I _F =120mA	1000 hrs	0/20
3	Steady State Operating Life of Low Temperature (LTOL)	Ta=-40°C, I _F =120mA	1000 hrs	0/20
4	Pulse Wet Operating Life of High Temperature (PWHTOL)	60°C/90%RH, I _F =120mA 30mins ON/30min OFF	500 hrs	0/20
5	High Temperature Storage (HTS)	100°C	1000 hrs	0/20
6	Low Temperature Storage (LTS)	-40°C	1000 hrs	0/20
7	Thermal Cycle (TC)	-40°C~100°C 30min dwell 5min transfer	200 cycle	0/20
8	Thermal Shock (TS)	-40°C~100°C 20min dwell 20sec transfer	200 cycle	0/20
9	Solder Resistance (SR)	265°C, 3X MSL	5sec	0/20
10	Solder Ability (SA)	245°C 5sec, 95% coverage	5sec	0/11
11	Mechanical Shock (MS)	1500G 0.5msec pulse shock	each 6 axis	0/6
12	Random Vibration (RV)	6G RMS, 10-2000Hz, 10min	per axis	0/6
13	Variable Vibration Frequency (VVF)	10-2000-10Hz, log or linear sweep rate, 20G for 1 min, 1.5mm each apply 3x per axis	over 6hrs	0/6
14	Salt Spread (SS)	35°C, 30g/m ² /day	48hrs	0/11

■ Criteria for Judging the Damage

Item	Symbol	Test Condition	Criteria for Judgment	
			Min.	Max.
Forward Voltage	V _F	I _F =Typical Current		U.S.L. x 1.1
Luminous Flux	Im	I _F =Typical Current	L.S.L. x 0.7	
CCX&CCY	x,y	I _F =Typical Current		Shift<0.02

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9. User Guide

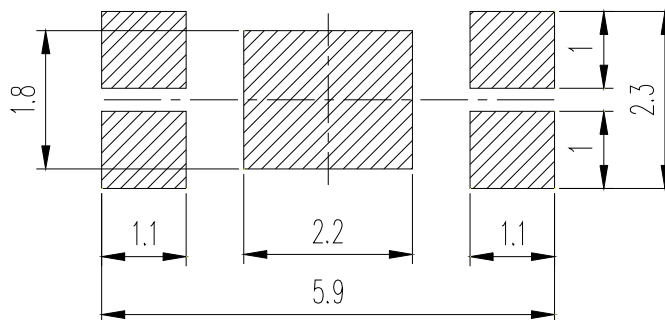
■ Cleaning

Do not use unspecified chemical liquid to clean LED they could harm the package. If cleaning is necessary, immerse the LED in ethyl alcohol or isopropyl alcohol at normal temperature for less than one minute.

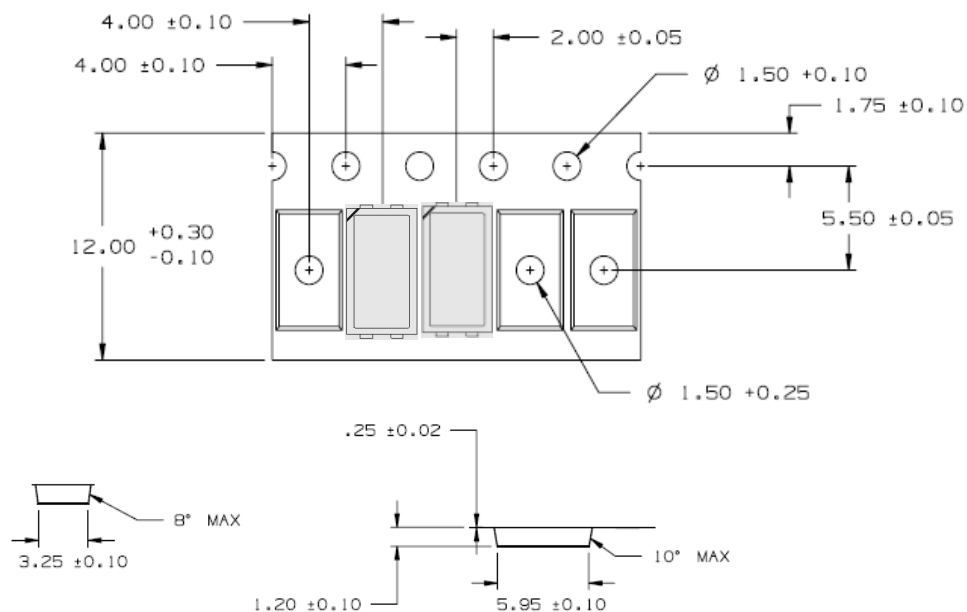
■ Recommend Printed Circuit Board Attachment Pad

Infrared / vapor phase

Reflow Soldering



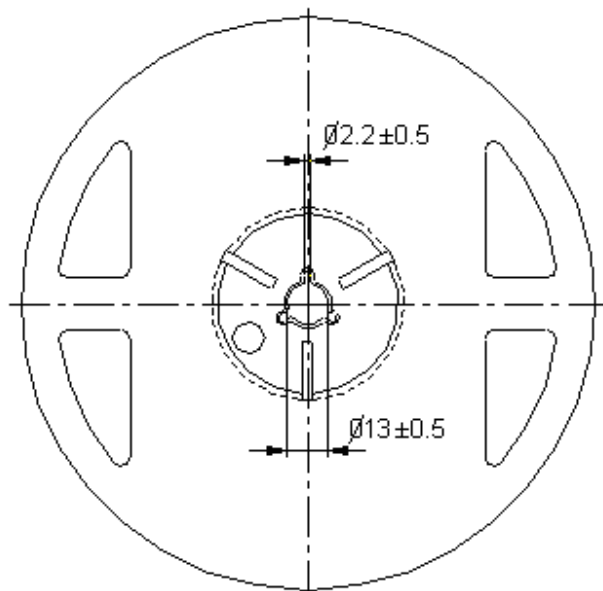
■ Package Dimensions of Tape



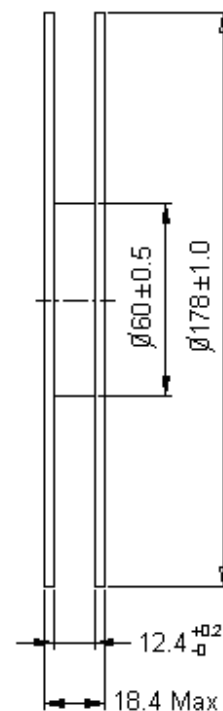
Note: All dimensions are in millimeters (inches).

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■ Package Dimensions of Reel



Note: 01. The tolerance unless mentioned is ± 0.1 mm
02. The measured unit is "mm"



Notes:

1. Empty component pockets sealed with top cover tape.
2. 7 inch reel-3000 pieces per reel.
3. Minimum packing quantity is 500 pieces for remainders.
4. The maximum number of consecutive missing lamps is two.
5. In accordance with EIA-481-1-B specifications.

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10. Cautions

10.1 Application

The LEDs described here are intended to be used for ordinary electronic equipment (such as office equipment, communication equipment and household applications). Consult Liteon's Sales in advance for information on applications in which exceptional reliability is required, particularly when the failure or malfunction of the LEDs may directly jeopardize life or health (such as in aviation, transportation, traffic control equipment, medical and life support systems and safety devices).

10.2 Storage

This product is qualified as Moisture sensitive Level 3 per JEDEC J-STD-020 Precaution when handling this moisture sensitive product is important to ensure the reliability of the product.

The package is sealed:

The LEDs should be stored at 30°C or less and 90%RH or less. And the LEDs are limited to use within one year, while the LEDs is packed in moisture-proof package with the desiccants inside.

The package is opened:

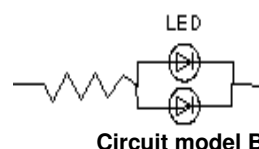
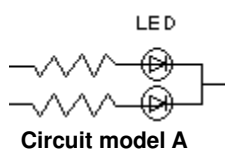
The LEDs should be stored at 30°C or less and 60%RH or less. Moreover, the LEDs are limited to solder process within 168hrs. If the Humidity Indicator shows the pink color in 10% even higher or exceed the storage limiting time since opened, that we recommended to baking LEDs at 60°C at least 24hrs. To seal the remainder LEDs return to package, it's recommended to be with workable desiccants in original package.

10.3 Cleaning

Use alcohol-based cleaning solvents such as isopropyl alcohol to clean the LED if necessary.

10.4 Drive Mode

An LED is a current-operated device. In order to ensure intensity uniformity on multiple LEDs connected in parallel in an application, it is recommended that a current limiting resistor be incorporated in the drive circuit, in series with each LED as shown in Circuit A below



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(A) Recommended circuit.

(B) The brightness of each LED might appear different due to the differences in the I-V characteristics of those LEDs.

10.5 ESD (Electrostatic Discharge)

Static Electricity or power surge will damage the LED. Suggestions to prevent ESD damage:

- Use of a conductive wrist band or anti-electrostatic glove when handling these LEDs.
- All devices, equipment, and machinery must be properly grounded.
- Work tables, storage racks, etc. should be properly grounded.
- Use ion blower to neutralize the static charge which might have built up on surface of the LED's plastic lens as a result of friction between LEDs during storage and handling.

ESD-damaged LEDs will exhibit abnormal characteristics such as high reverse leakage current, low forward voltage, or "no lightup" at low currents. To verify for ESD damage, check for "light up" and V_F of the suspect LEDs at low currents. The V_F of "good" LEDs should be $>2.0V@0.1mA$ for InGaP product and $>1.4V@0.1mA$ for AlInGaP product.

10.6 Suggested Checking List:

- Training and Certification
 1. Everyone working in a static-safe area is ESD-certified?
 2. Training records kept and re-certification dates monitored?
- Static-Safe Workstation & Work Areas
 1. Static-safe workstation or work-areas have ESD signs?
 2. All surfaces and objects at all static-safe workstation and within 1 ft measure less than 100V?
 3. All ionizer activated, positioned towards the units?
 4. Each work surface mats grounding is good?
- Personnel Grounding
 1. Every person (including visitors) handling ESD sensitive (ESDS) items wear wrist strap, heel strap or conductive shoes with conductive flooring?
 2. If conductive footwear used, conductive flooring also present where operator stand or walk?

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3. Garments, hairs or anything closer than 1 ft to ESD items measure less than 100V*?
4. Every wrist strap or heel strap/conductive shoes checked daily and result recorded for all DLs?
5. All wrist strap or heel strap checkers calibration up to date?

Note: *50V for Blue LED.

■ Device Handling

1. Every ESDS items identified by EIA-471 labels on item or packaging?
2. All ESDS items completely inside properly closed static-shielding containers when not at static-safe workstation?
3. No static charge generators (e.g. plastics) inside shielding containers with ESDS items?
4. All flexible conductive and dissipative package materials inspected before reuse or recycle?

■ Others

1. Audit result reported to entity ESD control coordinator?
2. Corrective action from previous audits completed?
3. Are audit records complete and on file?

10.7 Others:

- Do not put any pressure on the light emitting surface either by finger or any hand tool and do not stack the products. Stress or pressure may cause damage to the wires of the LED array.
- This product is not designed for the use under any of the following conditions, please confirm the performance and reliability are well enough if you use it under any of the following conditions
- Do not use sulfur-containing materials in commercial products including the materials such as seals and adhesives that may contain sulfur.
- Do not put this product in a place with a lot of moisture (over 85% relative humidity), dew condensation, briny air, and corrosive gas (Cl, H₂S, NH₃, SO₂, NO_x, etc.), exposure to a corrosive environment may affect silver plating.
- The appearance and specifications of the product may be modified for improvement without prior notice.

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