

Product /Process Change Notification

PCN			
Effective date: 2015/05/01			
Description:			
<ul style="list-style-type: none"> ● LTW-5630AZLxx series and LTW-5630AZLxx-EU series flux performance improvement. To keep 5630 series competitive Liteon will add one higher flux bin to 5630 LTW-5630AZLxx series and LTW-5630AZLxx-EU series. The updated Datasheet please refer to attached files. 			
Product Affected:			
LTW-5630AZL27	LTW-5630AZL27-EU		
LTW-5630AZL30	LTW-5630AZL30-EU		
LTW-5630AZL35	LTW-5630AZL35-EU		
LTW-5630AZL40	LTW-5630AZL40-EU		
LTW-5630AZL50	LTW-5630AZL50-EU		
LTW-5630AZL57	LTW-5630AZL57-EU		
LTW-5630AZL65	LTW-5630AZL65-EU		

Product /Process Change Notification

P.5 Max flux modified

After

Parameter	Symbol	Typ.	Values							Unit	Test Condition
			2700	3000	3500	4000	5000	5700	6500		
Correlated Color Temp.	CCT	Typ.	2700	3000	3500	4000	5000	5700	6500	K	If = 120mA
Chromaticity	x	Typ.	0.458	0.434	0.408	0.382	0.345	0.329	0.312	-	
Coordinates	y	Typ.	0.410	0.403	0.392	0.380	0.355	0.342	0.328	-	
Luminous Flux ¹	Φ _v	Min	41.0	42.5	44.0	44.0	45.5	44.0	42.5	lm	
		Typ.	50.0	53.0	54.0	55.0	54.0	55.0	53.0		
		Max.	63.5	65.0	66.5	66.5	68.0	66.5	65.0		
Optical Efficiency	η _{opt}	Typ.	133	141	144	146	144	146	141	lm/W	
Color Rendering Index	CRI	Min.	80							-	
Viewing Angle	2θ _{1/2}	Typ.	120							deg	
		Min	2.9							V	
Forward Voltage	V _f	Typ.	3.13								
		Max.	3.3								
		Typ.	15							*C/W	
Thermal Resistance	R _θ	Typ.	15							*C/W	
ESD-Withstand Voltage	ESD	Min	5K							HBM	V

Before

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			2700	3000	3500	4000	5000	5700	6500		
Correlated Color Temp.	CCT	Typ.	2700	3000	3500	4000	5000	5700	6500	K	If = 120mA
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Coordinates	y	Typ.	0.410	0.403	0.392	0.380	0.355	0.342	0.328	-	
Luminous Flux ¹	Φ _v	Min	41.0	42.5	44.0	44.0	45.5	44.0	42.5	lm	
		Typ.	50	53	54	55	54	55	53		
		Max.	59.0	60.5	62.0	62.0	63.5	62.0	60.5		
Optical Efficiency	η _{opt}	Typ.	133	141	144	146	144	146	141	lm/W	
Color Rendering Index	CRI	Min.	80							-	
Viewing Angle	2θ _{1/2}	Typ.	120							deg	
		Min	2.9							V	
Forward Voltage	V _f	Typ.	3.13								
		Max.	3.3								
		Typ.	15							*C/W	
Thermal Resistance	R _θ	Typ.	15							*C/W	
ESD-Withstand Voltage	ESD	Min	5K							HBM	V

Product /Process Change Notification

P.18~19 Adding one higher flux bin

After

2700K		
Φ_v Luminous Flux Spec. Table		
Φ_v Bin	Lumen (lm) at $I_f = 120$ mA	
	Min	Max
CF	41.0	45.5
FI	45.5	50.0
IL	50.0	54.5
LO	54.5	59.0
OR	59.0	63.5

3000K		
Φ_v Luminous Flux Spec. Table		
Φ_v Bin	Lumen (lm) at $I_f = 120$ mA	
	Min	Max
DG	42.5	47.0
GJ	47.0	51.5
JM	51.5	56.0
MP	56.0	60.5
PS	60.5	65.0

3500K		
Φ_v Luminous Flux Spec. Table		
Φ_v Bin	Lumen (lm) at $I_f = 120$ mA	
	Min	Max
EH	44.0	48.5
HK	48.5	53.0
KN	53.0	57.5
NQ	57.5	62.0
QT	62.0	66.5

Before

2700K		
Φ_v Luminous Flux Spec. Table		
Φ_v Bin	Lumen (lm) at $I_f = 120$ mA	
	Min	Max
CF	41.0	45.5
FI	45.5	50.0
IL	50.0	54.5
LO	54.5	59.0

3000K		
Φ_v Luminous Flux Spec. Table		
Φ_v Bin	Lumen (lm) at $I_f = 120$ mA	
	Min	Max
DG	42.5	47.0
GJ	47.0	51.5
JM	51.5	56.0
MP	56.0	60.5

3500K		
Φ_v Luminous Flux Spec. Table		
Φ_v Bin	Lumen (lm) at $I_f = 120$ mA	
	Min	Max
EH	44.0	48.5
HK	48.5	53.0
KN	53.0	57.5
NQ	57.5	62.0

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4000K	Φ_v Luminous Flux Spec. Table	
Φ_v Bin	Lumen (lm) at $I_f = 120$ mA	
	Min	Max
EH	44.0	48.5
HK	48.5	53.0
KN	53.0	57.5
NQ	57.5	62.0
QT	62.0	66.5
5000K	Φ_v Luminous Flux Spec. Table	
Φ_v Bin	Lumen (lm) at $I_f = 120$ mA	
	Min	Max
FI	45.5	50.0
IL	50.0	54.5
LO	54.5	59.0
OR	59.0	63.5
RU	63.5	68.0
5700K	Φ_v Luminous Flux Spec. Table	
Φ_v Bin	Lumen (lm) at $I_f = 120$ mA	
	Min	Max
EH	44.0	48.5
HK	48.5	53.0
KN	53.0	57.5
NQ	57.5	62.0
QT	62.0	66.5
6500K	Φ_v Luminous Flux Spec. Table	
Φ_v Bin	Lumen (lm) at $I_f = 120$ mA	
	Min	Max
DG	42.5	47.0
GJ	47.0	51.5
JM	51.5	56.0
MP	56.0	60.5
PS	60.5	65.0

4000K	Φ_v Luminous Flux Spec. Table	
Φ_v Bin	Lumen (lm) at $I_f = 120$ mA	
	Min	Max
EH	44.0	48.5
HK	48.5	53.0
KN	53.0	57.5
NQ	57.5	62.0

5000K	Φ_v Luminous Flux Spec. Table	
Φ_v Bin	Lumen (lm) at $I_f = 120$ mA	
	Min	Max
FI	45.5	50.0
IL	50.0	54.5
LO	54.5	59.0
OR	59.0	63.5

5700K	Φ_v Luminous Flux Spec. Table	
Φ_v Bin	Lumen (lm) at $I_f = 120$ mA	
	Min	Max
EH	44.0	48.5
HK	48.5	53.0
KN	53.0	57.5
NQ	57.5	62.0

6500K	Φ_v Luminous Flux Spec. Table	
Φ_v Bin	Lumen (lm) at $I_f = 120$ mA	
	Min	Max
DG	42.5	47.0
GJ	47.0	51.5
JM	51.5	56.0
MP	56.0	60.5

Product /Process Change Notification

$I_f = 120 \text{ mA}$		CCT						
Code	I_m	2700K	3000K	3500K	4000K	5000K	5700K	6500K
C	41.0							
D	42.5							
E	44.0	CF						
F	45.5		DG					
G	47.0			EH	EH		EH	DG
H	48.5	FI				FI		
I	50.0		GJ				HK	GJ
J	51.5	IL		HK	HK	IL		
K	53.0		JM				KN	JM
L	54.5			KN	KN			
M	56.0					LO		
N	57.5	LO	MP					MP
O	59.0			NQ	NQ		NQ	
P	60.5	OR				OR		
Q	62.0		PS					PS
R	63.5			QT	QT		QT	
S	65.0					RU		
T	66.5							
U	68.0							

$I_f = 120 \text{ mA}$		CCT						
Code	I_m	2700K	3000K	3500K	4000K	5000K	5700K	6500K
C	41.0							
D	42.5							
E	44.0	CF						
F	45.5		DG					
G	47.0			EH	EH		EH	DG
H	48.5	FI				FI		
I	50.0		GJ				HK	GJ
J	51.5	IL		HK	HK	IL		
K	53.0		JM				KN	JM
L	54.5			KN	KN			
M	56.0					LO		
N	57.5	LO	MP					MP
O	59.0			NQ	NQ		NQ	
P	60.5					OR		
Q	62.0							
R	63.5							

P.26 Typo

After

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 exceeding 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.

Before

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