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General Product Information

Product Test Conditions

LUXEON 3014 LEDs are tested and with a 20ms monopulse of 60mA at a junction temperature, T_j, of 25°C. Forward voltage and luminous flux are binned at a T_i of 25°C, while color is hot targeted at a T_i of 65°C.

Part Number Nomenclature

Part numbers for LUXEON 3014 follow the convention below:

```
L 1 3 0 - A A B B 0 0 1 4 0 0 0 0 1
```

Where:

- **A A** designates nominal CCT (22=2200K, 25=2500K, 27=2700K, 30=3000K, 35=3500K, 40=4000K, 50=5000K, 57=5700K, 65=6500K, 80=8000K, 10=10000K)
- **B B** designates minimum CRI (70=70CRI, 75=75CRI, 80=80CRI, 90=90CRI)

Therefore, the following part number is used for a LUXEON 3014 3000K 80CRI:

L 1 3 0 - **3 0 8 0** 0 0 1 4 0 0 0 0 1

Lumen Maintenance

Please contact your local Sales Representative or Lumileds Technical Solutions Manager for more information about the long-term performance of this product.

Environmental Compliance

Lumileds LLC is committed to providing environmentally friendly products to the solid-state lighting market. LUXEON 3014 is compliant to the European Union directives on the restriction of hazardous substances in electronic equipment, namely the RoHS Directive 2011/65/EU and REACH Regulation (EC) 1907/2006. Lumileds LLC will not intentionally add the following restricted materials to its products: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE).

Performance Characteristics

Product Selection Guide

Table 1. Product performance of LUXEON 3014 at 60mA and 30mA at test temperature.

NOME :		LUMINOUS	FLUX [3] (lm)	TYPICAL LUMINOUS	TYPICAL LUMINOUS	TYPICAL LUMINOUS	
NOMINAL CCT [1]	MINIMUM CRI [2, 3, 4]	MINIMUM	TYPICAL	EFFICACY (lm/W)	FLUX (lm)	EFFICACY (lm/W)	PART NUMBER
			60mA		30	0mA	
8000K	70	23	26	140	14	151	L130-8070001400001
10000K	70	21	24	129	14	151	L130-1070001400001
5000K	75	25	27	145	14	151	L130-5075001400001
5700K	75	25	27	145	14	151	L130-5775001400001
6500K	75	25	27	145	14	151	L130-6575001400001
2200K	80	19	21	113	11	118	L130-2280001400001
2500K	80	21	23	124	12	129	L130-2580001400001
2700K	80	20	24	129	13	139	L130-2780001400001
3000K	80	22	26	140	12	129	L130-3080001400001
3500K	80	22	26	140	13	140	L130-3580001400001
4000K	80	23	27	145	14	151	L130-4080001400001
5000K	80	23	27	145	14	151	L130-5080001400001
5700K	80	23	27	145	14	151	L130-5780001400001
6500K	80	23	27	145	14	151	L130-6580001400001
2700K	90	17	19	102	10	108	L130-2790001400001
3000K	90	17	19	102	10	108	L130-3090001400001
3500K	90	19	21	113	11	118	L130-3590001400001
4000K	90	19	21	113	11	118	L130-4090001400001
5000K	90	19	22	118	12	129	L130-5090001400001
5700K	90	19	22	118	12	129	L130-5790001400001
6500K	90	19	21	113	11	118	L130-6590001400001

Notes for Table 1:

Optical Characteristics

Table 2. Optical characteristics for LUXEON 3014 at 60mA, T_i=25°C.

PART NUMBER	TYPICAL TOTAL INCLUDED ANGLE [1]	TYPICAL VIEWING ANGLE [2]
L130-xxxx001400001	140°	116°

Notes for Table 1:

1. Correlated color temperature is hot targeted at T_j=65°C.

2. Lumileds maintains a tolerance of ±2 on CRI and ±6.5% on luminous flux measurements.

3. Typical CRI is approximately 2 points higher than the minimum CRI specified, but this is not guaranteed.

4. For 90CRI products, R9≥50.

Notes for Table 2:

1. Total angle at which 90% of total luminous flux is captured.

^{2.} Viewing angle is the off axis angle from the LED centerline where the luminous intensity is ½ of the peak value.

Electrical and Thermal Characteristics

Table 3. Electrical and thermal characteristics for LUXEON 3014 at 60mA, T_i=25°C.

PART NUMBER	FORWARD VOLTAGE ^[1] (V)			TYPICAL TEMPERATURE	TYPICAL THERMAL	
PARI NOWIDER	MINIMUM	TYPICAL	MAXIMUM	VOLTAGE (mV/°C) [2]	RESISTANCE — JUNCTION TO SOLDER PAD (°C/W)	
L130-xxxx001400001	2.8	3.1	3.3	-2.0 to -4.0	35	

Notes for Table 3:

- Lumileds maintains a tolerance of ±0.06V on forward voltage measurements.
 Measured between 25°C and 85°C.

Absolute Maximum Ratings

Table 4. Absolute maximum ratings for LUXEON 3014.

PARAMETER	MAXIMUM PERFORMANCE
DC Forward Current [1,2]	120mA
Peak Pulsed Forward Current ^[1,3]	150mA
LED Junction Temperature [1] (DC & Pulse)	115°C
ESD Sensitivity (ANSI/ESDA/JEDEC JS-001-2012)	Class 2
Operating Case Temperature [1]	-40°C to 105°C
LED Storage Temperature	-40°C to 100°C
Soldering Temperature	JEDEC 020D 260°C
Allowable Reflow Cycles	3
Reverse Voltage (V _{reverse})	-5V

Notes for Table 4:

- Notes for Table 4:

 1. Proper current derating must be observed to maintain the junction temperature below the maximum allowable junction temperature.

 2. Residual periodic variations due to power conversion from alternating current (AC) to direct current (DC), also called "ripple," are acceptable if the following conditions are met:

 The frequency of the ripple current is 100Hz or higher

 The average current for each cycle does not exceed the maximum allowable DC forward current

 The maximum amplitude of the ripple does not exceed 15% of the maximum allowable DC forward current

 3. At 10% duty cycle with pulse width of 10ms.

Characteristic Curves

Spectral Distribution Characteristics

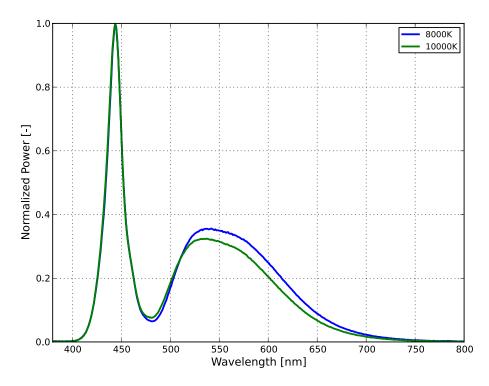


Figure 1a: Typical normalized power vs. wavelength for L130-xx70001400001 at 60mA, T_i=25°C.

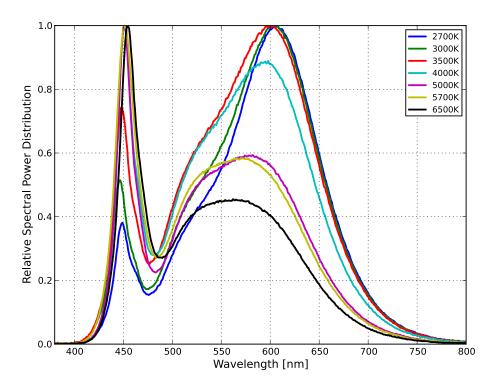


Figure 1b: Typical normalized power vs. wavelength for L130-xx80001400001 at 60mA, T_i=25°C.

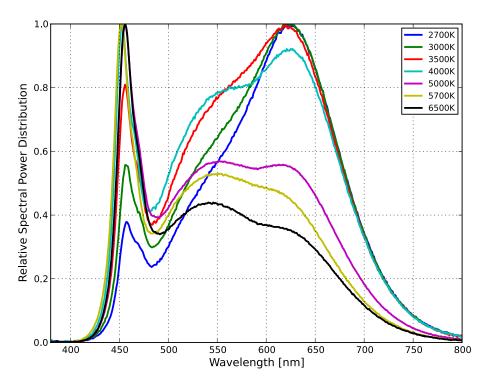


Figure 1c: Typical normalized power vs. wavelength for L130-xx90001400001 at 60mA, T_i=25°C.

Light Output Characteristics

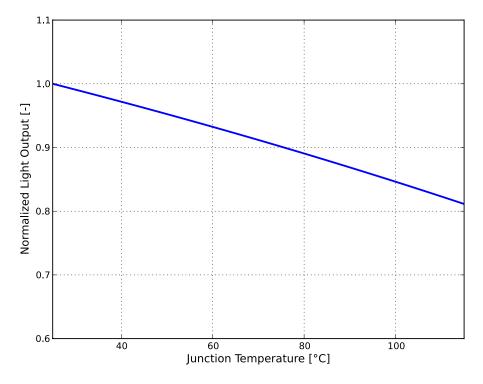


Figure 2a: Typical normalized light output vs. junction temperature for L130-xxxx001400001 at 60mA.

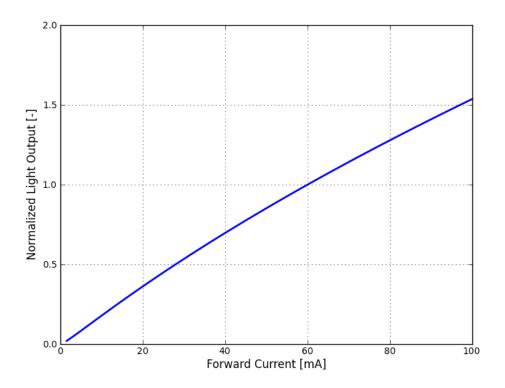


Figure 2b: Typical normalized light output vs. forward current for L130-xxxx001400001 at T_i=25°C.

Forward Current Characteristics

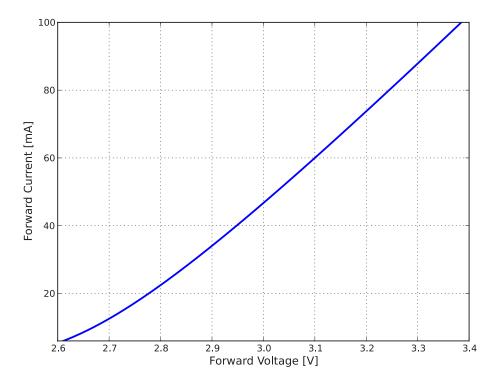


Figure 3: Typical forward current vs. forward voltage for L130-xxxx001400001 at T_j =25°C.

Radiation Patterns

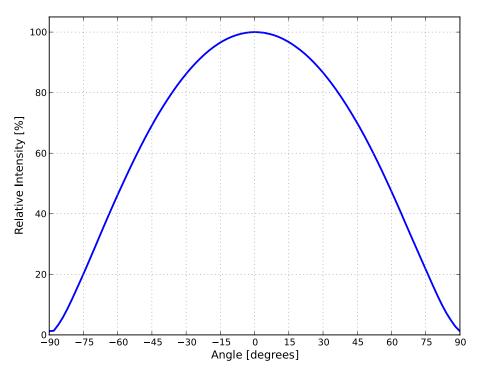


Figure 4: Typical radiation pattern for L130-xxxx001400001 at 60mA, T_j=25°C.

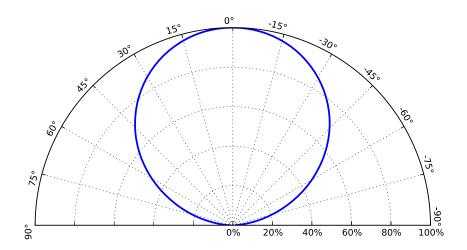


Figure 5: Typical polar radiation pattern for L130-xxxx001400001 at 60mA, T_i=25°C.

Product Bin and Labeling Definitions

Decoding Product Bin Labeling

In the manufacturing of semiconductor products, there are variations in performance around the average values given in the technical datasheet. For this reason, Lumileds bins LED components for luminous flux or radiometric power, color point, peak or dominant wavelength and forward voltage.

LUXEON 3014 LEDs are labeled using a 4-digit alphanumeric CAT code following the format below:

ABCD

A – designates luminous flux bin (example: B=10.0 to 11.5 lumens, F=17.0 to 19.0 lumens)

B C – designates color bin (example: 7D, 7E, 7F, 7G, 7H, 7J, 7K, 7L, 7M for 3000K parts)

D - designates forward voltage bin (example: T=2.80V to 2.90V, W=3.00V to 3.10V)

Therefore, a LUXEON 3014 with a lumen range of 10.0 to 11.5, color bin of 7D and a forward voltage range of 2.80V to 2.90V has the following CAT code:

B 7 D T

Luminous Flux Bins

Table 5 lists the standard luminous flux bins for LUXEON 3014 emitters. Although several bins are outlined, product availability in a particular bin varies by production run and by product performance. Not all bins are available in all CCTs.

Table 5. Luminous flux bin definitions for LUXEON 3014 at 60mA, T_i=25°C.

BIN	LUMINOUS	FLUX (lm)
BIN	MINIMUM	MAXIMUM
А	8.5	10.0
В	10.0	11.5
С	11.5	13.0
D	13.0	15.0
Е	15.0	17.0
F	17.0	19.0
G	19.0	21.0
Н	21.0	24.0
J	24.0	28.0
K	28.0	32.0

Notes for Table 5:

^{1.} Lumileds maintains a tolerance of $\pm 6.5\%$ on luminous flux measurements.

Color Bin Definition

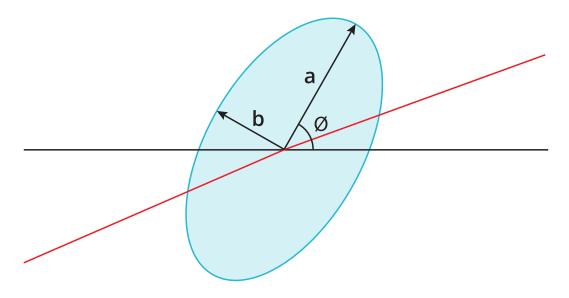


Figure 6: 3-, 4- and 5-step MacAdam ellipse illustration for Table 6.

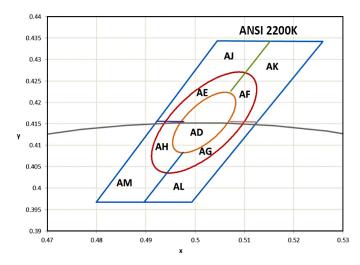


Figure 7a: Color bin structure for LUXEON 3014 2200K, hot-color targeted at T_j =65°C.

Table 6a. 3- and 5-step MacAdam ellipse color bin definitions for L130-22xx001400001 at 60mA, hot-color targeted at T_j =65°C.

NOMINAL CCT	COLOR SPACE	CENTER POINT (cx, cy)	MAJOR AXIS, a	MINOR AXIS, b	ELLIPSE ROTATION ANGLE, θ
2200K	Single 3-step MacAdam ellipse	(0.5037, 0.4142)	0.0072	0.0042	51.0°
2200K	Single 5-step MacAdam ellipse	(0.5037, 0.4142)	0.0120	0.0070	51.0°

Notes for Table 6b: 1. Lumileds maintains a tolerance of ± 0.005 on x and y coordinates in the CIE 1931 color space.

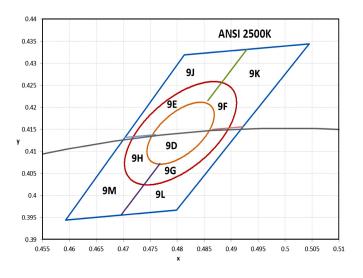


Figure 7b: Color bin structure for LUXEON 3014 2500K, hot-color targeted at T_i=65°C.

Table 6b. 3- and 5-step MacAdam ellipse color bin definitions for L130-25xx001400001 at 60mA, hot-color targeted at T_i=65°C.

NOMINAL CCT	COLOR SPACE	CENTER POINT (cx, cy)	MAJOR AXIS, a	MINOR AXIS, b	ELLIPSE ROTATION ANGLE, θ
2500K	Single 3-step MacAdam ellipse	(0.4753, 0.4127)	0.0075	0.0042	53.0°
2500K	Single 5-step MacAdam ellipse	(0.4753, 0.4127)	0.0125	0.0070	53.0°

Notes for Table 6b:

Lumileds maintains a tolerance of ± 0.005 on x and y coordinates in the CIE 1931 color space.

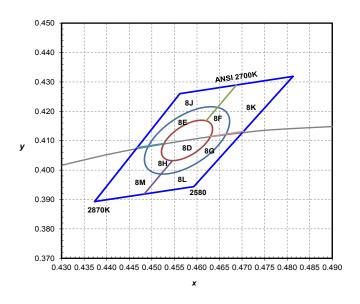


Figure 7c: Color bin structure for LUXEON 3014 2700K, hot-color targeted at T_i=65°C.

Table 6c. 3- and 5-step MacAdam ellipse color bin definitions for L130-27xx001400001 at 60mA, hot-color targeted at T,=65°C.

NOMINAL CCT	COLOR SPACE	CENTER POINT (cx, cy)	MAJOR AXIS, a	MINOR AXIS, b	ELLIPSE ROTATION ANGLE, θ
2700K	Single 3-step MacAdam ellipse	(0.4578, 0.4101)	0.00810	0.00420	53.70°
2700K	Single 5-step MacAdam ellipse	(0.4578, 0.4101)	0.01350	0.00700	53.70°

Notes for Table 6c:

1. Lumileds maintains a tolerance of ±0.005 on x and y coordinates in the CIE 1931 color space.

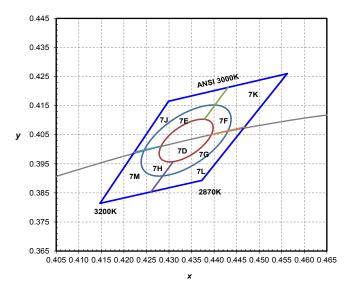


Figure 7d: Color bin structure for LUXEON 3014 3000K, hot-color targeted at T_i=65°C.

Table 6d. 3- and 5-step MacAdam ellipse color bin definitions for L130-30xx001400001 at 60mA, hot-color targeted at T,=65°C.

NOMINAL CCT	COLOR SPACE	CENTER POINT (cx, cy)	MAJOR AXIS, a	MINOR AXIS, b	ELLIPSE ROTATION ANGLE, θ
3000K	Single 3-step MacAdam ellipse	(0.4338, 0.4030)	0.00834	0.00408	53.22°
3000K	Single 5-step MacAdam ellipse	(0.4338, 0.4030)	0.01390	0.00680	53.22°

Notes for Table 6d:

^{1.} Lumileds maintains a tolerance of ± 0.005 on x and y coordinates in the CIE 1931 color space.

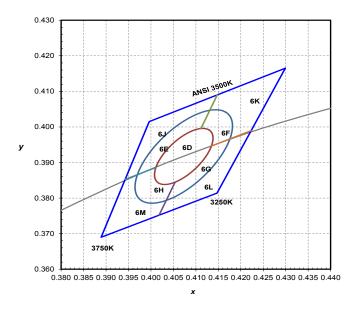


Figure 7e: Color bin structure for LUXEON 3014 3500K, hot-color targeted at T_i=65°C.

Table 6e. 3- and 5-step MacAdam ellipse color bin definitions for L130-35xx001400001 at 60mA, hot-color targeted at T_i=65°C.

NOMINAL CCT	COLOR SPACE	CENTER POINT (cx, cy)	MAJOR AXIS, a	MINOR AXIS, b	ELLIPSE ROTATION ANGLE, θ
3500K	Single 3-step MacAdam ellipse	(0.4073, 0.3917)	0.00927	0.00414	54.00°
3500K	Single 5-step MacAdam ellipse	(0.4073, 0.3917)	0.01545	0.00690	54.00°

Notes for Table 6e: 1. Lumileds maintains a tolerance of ± 0.005 on x and y coordinates in the CIE 1931 color space.

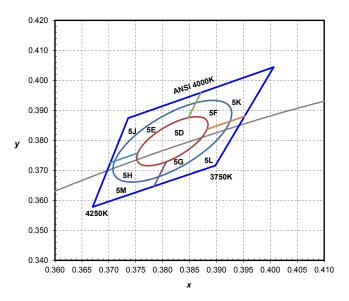


Figure 7f: Color bin structure for LUXEON 3014 4000K, hot-color targeted at T_i=65°C.

Table 6f. 3- and 5-step MacAdam ellipse color bin definitions for L130-40xx001400001 at 60mA, hot-color targeted at T,=65°C.

NOMINAL CCT	COLOR SPACE	CENTER POINT (cx, cy)	MAJOR AXIS, a	MINOR AXIS, b	ELLIPSE ROTATION ANGLE, θ
4000K	Single 3-step MacAdam ellipse	(0.3818, 0.3797)	0.00939	0.00402	53.72°
4000K	Single 5-step MacAdam ellipse	(0.3818, 0.3797)	0.01565	0.00670	53.72°

Notes for Table 6f:

^{1.} Lumileds maintains a tolerance of ± 0.005 on x and y coordinates in the CIE 1931 color space.

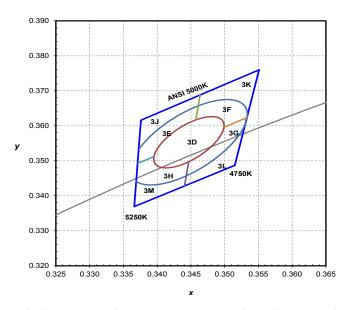


Figure 7g: Color bin structure for LUXEON 3014 5000K, hot-color targeted at T_i=65°C.

Table 6g. 3- and 5-step MacAdam ellipse color bin definitions for L130-50xx001400001 at 60mA, hot-color targeted at T,=65°C.

	· ·				J
NOMINAL CCT	COLOR SPACE	CENTER POINT (cx, cy)	MAJOR AXIS, a	MINOR AXIS, b	ELLIPSE ROTATION ANGLE, θ
5000K	Single 3-step MacAdam ellipse	(0.3447, 0.3553)	0.00822	0.00354	59.62°
5000K	Single 5-step MacAdam ellipse	(0.3447, 0.3553)	0.01370	0.00590	59.62°

Notes for Table 6g:

1. Lumileds maintains a tolerance of ±0.005 on x and y coordinates in the CIE 1931 color space.

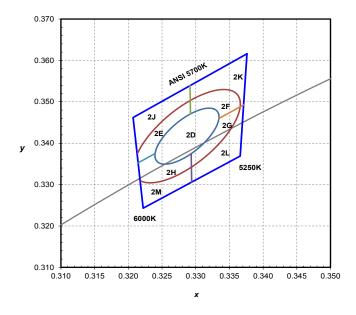


Figure 7h: Color bin structure for LUXEON 3014 5700K, hot-color targeted at T_i=65°C.

Table 6h. 3- and 5-step MacAdam ellipse color bin definitions for L130-57xx001400001 at 60mA, hot-color targeted at T_i=65°C.

NOMINAL CCT	COLOR SPACE	CENTER POINT (cx, cy)	MAJOR AXIS, a	MINOR AXIS, b	ELLIPSE ROTATION ANGLE, θ
5700K	Single 3-step MacAdam ellipse	(0.3287, 0.3417)	0.00746	0.00320	59.09°
5700K	Single 5-step MacAdam ellipse	(0.3287, 0.3417)	0.01243	0.00533	59.09°

Notes for Table 6h:

^{1.} Lumileds maintains a tolerance of ± 0.005 on x and y coordinates in the CIE 1931 color space.

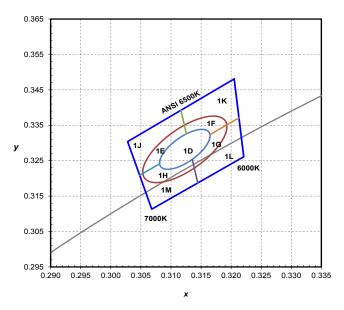


Figure 7i: Color bin structure for LUXEON 3014 6500K, hot-color targeted at T_i=65°C.

Table 6i. 3- and 5-step MacAdam ellipse color bin definitions for L130-65xx001400001 at 60mA, hot-color targeted at T_i=65°C.

NOMINAL CCT	COLOR SPACE	CENTER POINT (cx, cy)	MAJOR AXIS, a	MINOR AXIS, b	ELLIPSE ROTATION ANGLE, θ
6500K	Single 3-step MacAdam ellipse	(0.3123, 0.3282)	0.00669	0.00285	58.57°
6500K	Single 5-step MacAdam ellipse	(0.3123, 0.3282)	0.01115	0.00475	58.57°

Notes for Table 6i:

^{1.} Lumileds maintains a tolerance of ± 0.005 on x and y coordinates in the CIE 1931 color space.

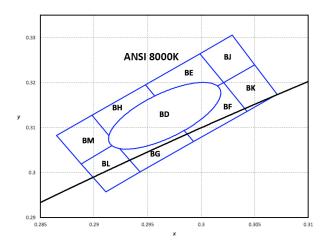


Figure 7j: Color bin structure for LUXEON 3014 8000K, hot-color targeted at T_i=65°C.

Table 6j. 4-step MacAdam ellipse color bin definitions for L130-80xx01400001 at 60mA, hot-color targeted at T,=65°C.

NOMINAL CCT	COLOR SPACE	CENTER POINT (cx, cy)	MAJOR AXIS, a	MINOR AXIS, b	ELLIPSE ROTATION ANGLE, θ
8000K	Single 4-step MacAdam ellipse	(0.2966, 0.3126)	0.00844	0.00334	58.64°

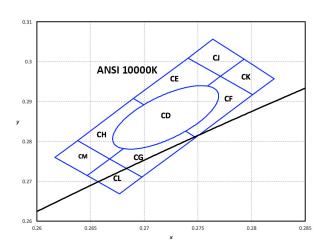


Figure 7k: Color bin structure for LUXEON 3014 10000K, hot-color targeted at T_i=65°C.

Table 6k. 4-step MacAdam ellipse color bin definitions for L130-10xx01400001 at 60mA, hot-color targeted at T_i=65°C.

NOMINAL CCT	COLOR SPACE	CENTER POINT (cx, cy)	MAJOR AXIS, a	MINOR AXIS, b	ELLIPSE ROTATION ANGLE, θ
10000K	Single 4-step MacAdam ellipse	(0.2720, 0.2860)	0.00877	0.00332	63.28°

Notes for Table 6j:

1. Lumileds maintains a tolerance of ±0.005 on x and y coordinates in the CIE 1931 color space.

Notes for Table 6k:

1. Lumileds maintains a tolerance of ±0.005 on x and y coordinates in the CIE 1931 color space.

Forward Voltage Bins

Table 7. Forward voltage bin definitions for LUXEON 3014 at 60mA, T_i=25°C.

BIN	FORWARD VOLTAGE ^[1] (V)			
DIIV	MINIMUM	MAXIMUM		
Т	2.80	2.90		
V	2.90	3.00		
W	3.00	3.10		
Χ	3.10	3.20		
Υ	3.20	3.30		
Z	3.30	3.40		

Mechanical Dimensions

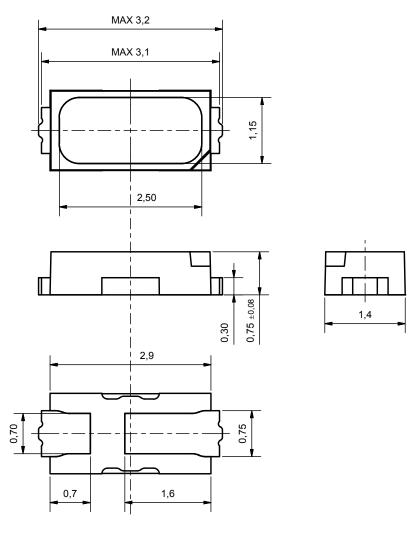


Figure 8: Mechanical dimensions for LUXEON 3014.

- Notes for Figure 8:
 1. Drawings are not to scale.
 2. All dimensions are in millimeters.

^{1.} Lumileds maintains a tolerance of $\pm 0.1 \text{V}$ on forward voltage measurements.

Reflow Soldering Guidelines

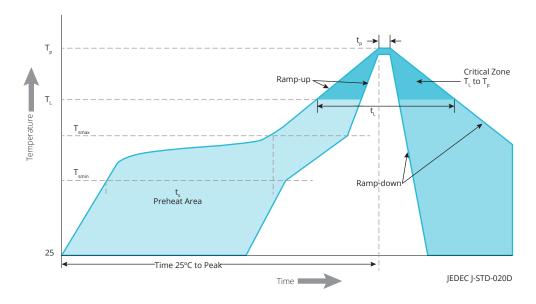


Figure 9: Visualization of the acceptable reflow temperature profile as specified in Table 8.

Table 8. Reflow profile characteristics for LUXEON 3014.

PROFILE FEATURE	LEAD-FREE ASSEMBLY		
Preheat Minimum Temperature (T _{smin})	150°C		
Preheat Maximum Temperature (T _{smax})	200°C		
Preheat Time (t _{smin} to t _{smax})	60 to 120 seconds		
Ramp-Up Rate (T_L to T_p)	3°C / second maximum		
Liquidus Temperature (T _L)	217°C		
Time Maintained Above Temperature $T_L(t_L)$	60 to 150 seconds		
Peak / Classification Temperature (T _p)	260°C		
Time Within 5°C of Actual Temperature (t _p)	20 to 40 seconds		
Ramp-Down Rate $(T_p \text{ to } T_L)$	6°C / second maximum		
Time 25°C to Peak Temperature	8 minutes maximum		

JEDEC Moisture Sensitivity

Table 9. Moisture sensitivity levels for LUXEON 3014.

LEVEL	FLOOI	FLOOR LIFE SOAK REQUIREMENTS		ENTS STANDARD
LEVEL	TIME	CONDITIONS	TIME	CONDITIONS
3	168 Hours	≤30°C / 60% RH	192 Hours +5 / -0	30°C / 60% RH

Solder Pad Design

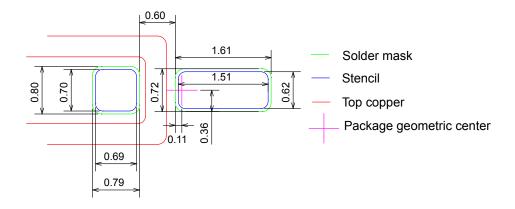


Figure 10: Recommended PCB solder pad layout for LUXEON 3014.

Notes for Figure 10:

- Drawings are not to scale.
 All dimensions are in millimeters.

Packaging and Labeling Information

There are two labeling formats used on the reel, moisture barrier bag (MBB) and shipment box. Either Format A or Format B is used throughout all the packaging steps. Lumileds uses CODE 128 barcode font on all the labels.

Pocket Tape

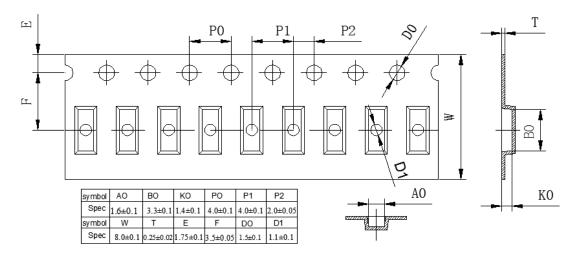
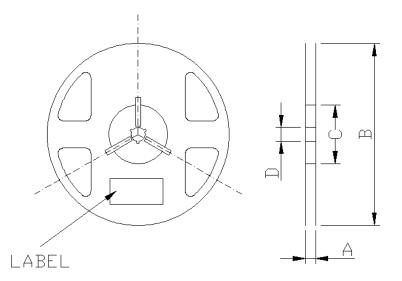


Figure 11: Pocket tape dimensions for LUXEON 3014.

Notes for Figure 11:

- Drawings are not to scale.
 All dimensions are in millimeters.

Reel



Α	8.0±0.1mm
В	178±1mm
С	60±1mm
D	13.0±0.5mm

Figure 12: Reel dimensions for LUXEON 3014.

- Notes for Figure 12:
 1. Drawings are not to scale.
 2. All dimensions are in millimeters.

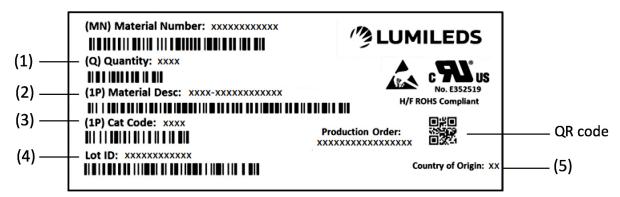


Figure 13a: Example of reel label format A.



Figure 13b: Example of reel label format B.

Notes for Figure 13a and Figure 13b — Reel Label descriptions for customer use:

- QR code and all other field labels not described are for Lumileds internal use only.

 1. Number of LED emitters in a reel.
- Lumileds part number.
- Product category code.
 Unique production lot identification number. First six numbers refer to manufacturing date code in YYMMDD format. This number is required for traceability purpose.
 Country code of origin of manufacturing of parts. E.g. MY for Malaysia, CN for China according to ISO 3166-1 alpha-2 document.
- Lumileds product name. Lumileds part number is provided in MBB label Format B #2 as shown in Figure 25c.

Moisture Barrier Bag (MBB)

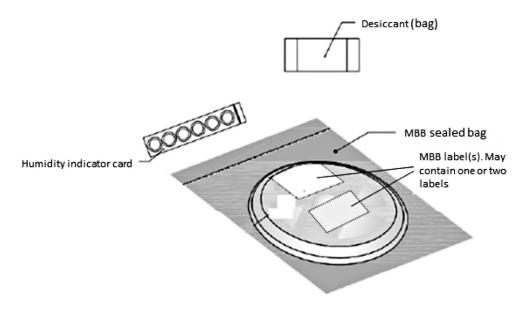


Figure 14: Illustration of typical Moisture Barrier Bag (MBB) packaging of a LUXEON emitter reel. MBB consists of humidity indicator card, desiccant bag, MBB label(s) and LED emitter reel. The MBB package is air-tight sealed per JEDEC J-STD-033C.

Notes for Figure 14:

1. Drawings are not to scale

There are two MBB labels attached (#1 and #2). The peeled off label (Figure 28) must be detached and affixed to the reel upon opening of the MBB package.

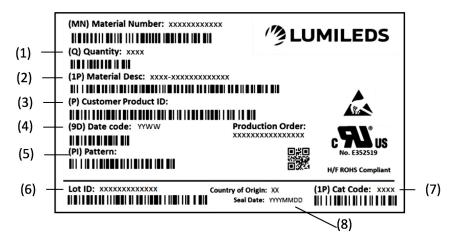


Figure 15a: Example of MBB label format A.

Notes for Figure 15a — MBB label descriptions for customer use:

- QR code and all other field labels not described are for Lumileds internal use only.
- Number of LED emitters in a reel.
- Lumileds part number.
 Customer part number for custom requests only.
- LED test date in YYWW format.
- Kitting information for custom request only.

 Unique production lot identification number. First six numbers refer to manufacturing date code in YYMMDD format. This number is required for traceability purpose.
- Product category code.

 Date in which MBB was sealed in YYYYMMDD format.

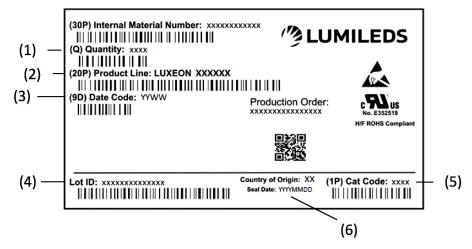


Figure 15b: Example of MBB label format B #1.

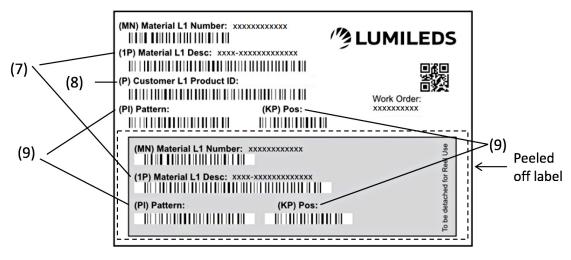


Figure 15c: Example of MBB label format B #2.

Notes for Figure 15b and Figure 15c — MBB label descriptions for customer use:

QR code and all other field labels not described are for Lumileds internal use only.

1. Number of LED emitters in a reel.

- Lumileds product name.
- LED test date in YYWW format.

 Unique production lot identification number. First six numbers refer to manufacturing date code in YYMMDD format. This number is required for traceability purpose.
- Product category code.
- Date in which MBB was sealed in YYYYMMDD format. Lumileds part number. Customer part number for custom requests only.

- Kitting information for custom request only.

Shipment Box

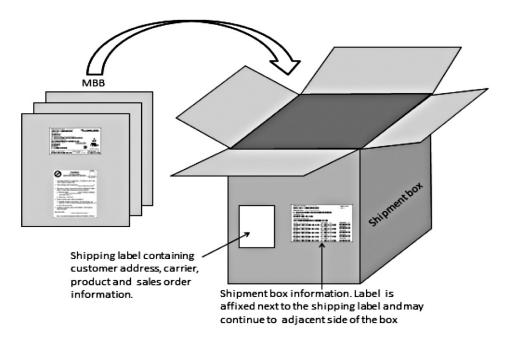


Figure 16: Illustration of MBBs packing into a shipment box.

Notes for Figure 16: 1. Drawings are not to scale.



Figure 17a: Example of shipment box label format A.

Notes for Figure 17a — Shipment box label descriptions for customer use: All other field labels not described are for Lumileds internal use only.

- Lumileds part number.
- Customer part number for custom requests only.
- 3. Maximum of 10 reels printed per label. For example, if there are 21 reels in a shipment box, there will be 3 labels printed.

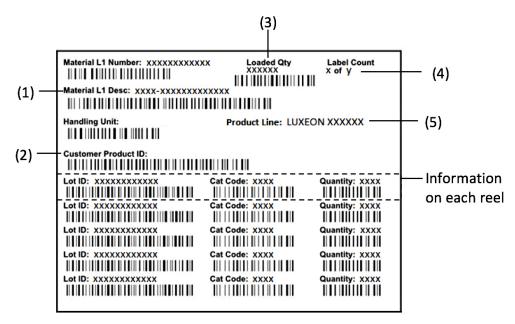


Figure 17b: Example of shipment box label format B.

Notes for Figure 17b — Shipment box label descriptions for customer use:

All other field labels not described are for Lumileds internal use only.

1. Lumileds part number.

- Customer part number for custom requests only.
- Total number of LED emitters in a shipment box.

 Maximum of 10 reels printed per label. For example, if there are 21 reels in a shipment box, there will be 3 labels printed.
- Lumileds product name.

About Lumileds

Lumileds is the global leader in light engine technology. The company develops, manufactures and distributes groundbreaking LEDs and automotive lighting products that shatter the status quo and help customers gain and maintain a competitive edge.

With a rich history of industry "firsts," Lumileds is uniquely positioned to deliver lighting advancements well into the future by maintaining an unwavering focus on quality, innovation and reliability.

To learn more about our portfolio of light engines, visit lumileds.com.



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