



LUXEON 2835 Color Line



The best performance, the most colors.

The LUXEON 2835 Color Line enables a new era of color lighting. This robust color line provides high performance and is targeted at cost effective designs. Complemented by a broad range of white offerings, the LUXEON 2835 Color Line enables RGBW applications. This product line extends the comprehensive LUXEON Color Family.



FEATURES AND BENEFITS

Single die and single source architecture for optical control

Full color palette for a wider spectrum range

PRIMARY APPLICATIONS

Panel / Soft Lights
Wall Grazer
Linear
Wall Wash
Decorative
Retrofit Lamps
Landscape Lighting



Table of Contents

General Product Information	
Product Test Conditions	
Part Number Nomenclature	2
Lumen Maintenance	
Environmental Compliance	
Performance Characteristics	3
Product Selection Guide	3
Optical Characteristics	4
Electrical and Thermal Characteristics	5
Absolute Maximum Ratings	5
Characteristic Curves	
Spectral Power Distribution Characteristics	6
Light Output Characteristics	
Forward Current Characteristics	
Radiation Pattern Characteristics	13
Product Bin and Labeling Definitions	14
Decoding Product Bin Labeling	14
Luminous Flux Bins	
Radiometric Power Bins	15
Color Bin Definitions	16
Peak Wavelength Bins	19
Dominant Wavelength Bins	19
Forward Voltage Bins	20
Mechanical Dimensions	20
Reflow Soldering Guidelines	21
JEDEC Moisture Sensitivity	21
Solder Pad Design	22
Packaging Information	22
Pocket Tape Dimensions	22
Reel Dimensions	23

General Product Information

Product Test Conditions

LUXEON 2835 Color Line LEDs are tested and binned with a 20ms monopulse of 120mA at a junction temperature, T_i, of 25°C.

Part Number Nomenclature

Part numbers for LUXEON 2835 Color Line follow the convention below:

```
L 1 2 8 - A A A 1 0 0 3 5 0 0 0 0 0
```

Where:

A A A – designates color (FRD=Far Red, DRD=Deep Red, RED=Red, RNG=Red Orange, PCA=PC Amber, MNT=Mint, LME=Lime, GRN=Green, CYN=Cyan, BLU=Blue, RYL=Royal Blue)

Therefore, the following part number is used for a LUXEON 2835 Red LED:

```
L 1 2 8 - R E D 1 0 0 3 5 0 0 0 0 0
```

Part numbers for LUXEON 2835 White follow the convention below:

```
L 1 2 8 - A A B B 0 0 3 5 0 0 0 0 0
```

Where:

A A - designates nominal CCT (30=3000K, 40=4000K, 57=5700K)

B B - designates minimum CRI (70=70CRI, 80=80CRI)

Therefore, the following part number is used for a LUXEON 2835 White 3000K 80CRI LED:

```
L 1 2 8 - 3 0 8 0 0 0 3 5 0 0 0 0 0
```

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 2835 Color Line 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 1a. Product performance of LUXEON 2835 Colors at 120mA and 200mA, T_i=25°C.

	·						
COLOR		DOMINANT or PEAK WAVELENGTH [1] (nm)		LUMINOUS FLUX ^[2] (lm) or RADIOMETRIC POWER ^[3] (mW)			
	MINIMUM	MAXIMUM	MINIMUM	120mA TYPICAL	200mA TYPICAL	NUMBER	
Far Red	720	740	85	98	160	L128-FRD1003500000	
Deep Red	650	670	98	109	193	L128-DRD1003500000	
Red	620	630	15	18	28	L128-RED1003500000	
Red-Orange	610	620	19	25	38	L128-RNG1003500000	
PC Amber	-	=	44	50	77	L128-PCA1003500000	
Mint	-	-	69	77	120	L128-MNT1003500000	
Lime	-	-	70	79	124	L128-LME1003500000	
Green	520	540	40	47	61	L128-GRN1003500000	
Cyan	490	510	21	30	41	L128-CYN1003500000	
Blue	469	480	13	16	24	L128-BLU1003500000	
Royal Blue	440	455	185	210	327	L128-RYL1003500000	

Table 1b. Product performance of LUXEON 2835 White at 120mA,T_i=25°C.

COLOR	NOMINAL CCT	MINIMUM CRI ^[1]	LUMINOUS FLUX ^[1] (lm)		TYPICAL LUMINOUS	PART NUMBER
	CCI CRI ^{1,1}	MINIMUM	TYPICAL	EFFICACY (lm/W)		
	5700K	70	58	66	193	L128-5770003500000
White	3000K	80	54	61	178	L128-3080003500000
	4000K	80	56	64	187	L128-4080003500000

Notes for Table 1b:

Notes for Table 1a:

1. Lumileds maintains a tolerance of ±1nm on dominant wavelength measurements. PC Amber, Mint and Lime are binned by chromaticity coordinates. Far Red, Deep Red and Royal Blue are binned by peak wavelength. All other colors are binned by dominant wavelength.

2. Lumileds maintains a tolerance of ±7.5% on luminous flux measurements.

3. Far Red, Deep Red and Royal Blue are binned by radiometric power. All other colors are binned by luminous flux.

^{1.} Lumileds maintains a tolerance of $\pm 7.5\%$ on luminous flux measurements.

Optical Characteristics

Table 2a. Optical characteristics for LUXEON 2835 Colors at 120mA, T_i=25°C.

COLOR	PART NUMBER	TYPICAL SPECTRAL HALF-WIDTH [1] (nm)	TYPICAL TEMPERATURE COEFFICIENT OF WAVELENGTH (nm/°C)	TYPICAL TOTAL INCLUDED ANGLE [2]	TYPICAL VIEWING ANGLE [3]
Far Red	L128-FRD1003500000	30	0.17	140°	130°
Deep Red	L128-DRD1003500000	20	0.16	140°	130°
Red	L128-RED1003500000	15	0.05	140°	130°
Red-Orange	L128-RNG1003500000	15	0.07	140°	130°
PC Amber	L128-PCA1003500000	95	0.01	140°	120°
Mint	L128-MNT1003500000	110	0.01	140°	120°
Lime	L128-LME1003500000	110	0.01	140°	120°
Green	L128-GRN1003500000	28	0.05	140°	130°
Cyan	L128-CYN1003500000	25	0.03	140°	130°
Blue	L128-BLU1003500000	20	0.03	140°	130°
Royal Blue	L128-RYL1003500000	15	0.04	140°	130°

Notes for Table 2a:

Table 2b. Optical characteristics for LUXEON 2835 White at 120mA, T_i =25°C.

COLOR	PART NUMBER	TYPICAL TOTAL INCLUDED ANGLE [1]	TYPICAL VIEWING ANGLE [1]
White	L128-xxxx003500000	160°	120°

Notes for Table 2b:

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.

Spectral half-width is the spectral bandwidth at 50% of the peak intensity.
 Total angle at which 90% of total luminous flux is captured.
 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 2835 Color Line at 120mA, T_i=25°C.

COLOR	PART NUMBER	FORWA	RD VOLTA	GE [1] (V _f)	TYPICAL TEMPERATURE	TYPICAL THERMAL	
COLOR	PART NUMBER	MINIMUM	TYPICAL	MAXIMUM	VOLTAGE [2] (mV/°C)	RESISTANCE — JUNCTION TO SOLDER PAD (°C/W)	
Far Red	L128-FRD1003500000	1.80	2.15	2.50	-2.0	15	
Deep Red	L128-DRD1003500000	1.80	2.15	2.50	-2.0	15	
Red	L128-RED1003500000	1.80	2.10	2.50	-2.0	15	
Red-Orange	L128-RNG1003500000	1.80	2.10	2.50	-1.7	15	
PC Amber	L128-PCA1003500000	2.80	3.00	3.10	-1.7	25	
Mint	L128-MNT1003500000	2.80	3.00	3.10	-2.5	25	
Lime	L128-LME1003500000	2.80	3.00	3.10	-1.7	25	
Green	L128-GRN1003500000	2.80	3.15	3.30	-3.0	69	
Cyan	L128-CYN1003500000	2.80	3.10	3.30	-2.5	50	
Blue	L128-BLU1003500000	2.80	3.00	3.20	-2.5	25	
Royal Blue	L128-RYL1003500000	2.80	3.00	3.20	-2.5	25	
White	L128-xxxx003500000	2.70	2.85	3.00	-1.0 to -2.0	13	

Notes for Table 3:

Absolute Maximum Ratings

Table 4. Absolute maximum ratings for LUXEON 2835 Color Line.

PARAMETER	FAR RED	DEEP RED, RED and RED-ORANGE	PC AMBER, MINT, LIME, GREEN, CYAN, BLUE and ROYAL BLUE	WHITE	
DC Forward Current ^[1, 2]	300mA	250mA	240mA	480mA	
Peak Pulsed Forward Current ^[1,3]	350mA	300mA	300mA	500mA	
LED Junction Temperature [1] (DC & Pulse)	125°C	125°C	125°C	125°C	
SD Sensitivity (ANSI/ESDA/JEDEC JS-001-2012)	Class 2	Class 2	Class 2	Class 2	
Operating Case Temperature [1]	105°C	105°C	105°C	105°C	
LED Storage Temperature	-40°C to 105°C	-40°C to 105°C	-40°C to 95°C	-40°C to 105°C	
Soldering Temperature		JEDEC 02	20c 260°C		
Allowable Reflow Cycles			3		
Reverse Voltage (V _{reverse})	LUXEON LEDs are not designed to be driven in reverse bias				

^{1.} Lumileds maintains a tolerance of $\pm 0.1 V$ on forward voltage measurements. 2. Measured between 25°C and 85°C.

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 the maximum peak pulsed forward current

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

Characteristic Curves

Spectral Power Distribution Characteristics

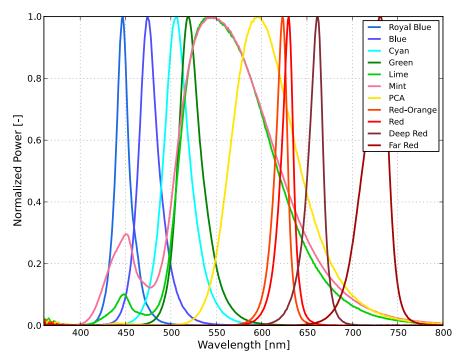


Figure 1a. Typical normalized power vs. wavelength for LUXEON 2835 Colors at 120mA, T_i=25°C.

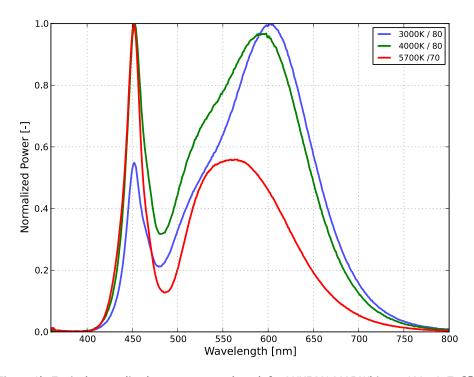


Figure 1b. Typical normalized power vs. wavelength for LUXEON 2835 White at 120mA, T_i=25°C.

Light Output Characteristics

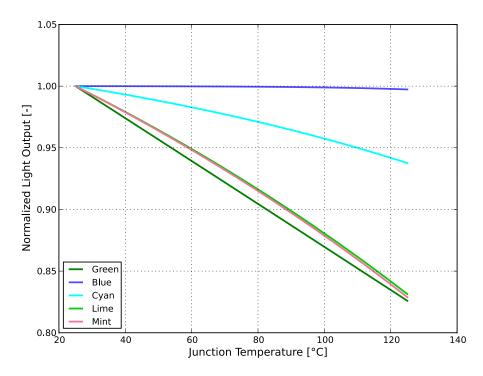


Figure 2a. Typical normalized light output vs. junction temperature for LUXEON 2835 Mint, Lime, Green, Cyan, and Blue at 120mA.

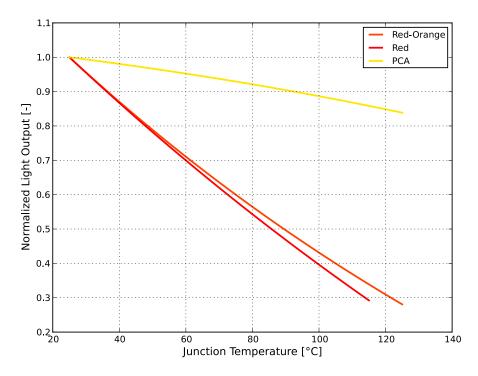


Figure 2b. Typical normalized light output vs. junction temperature for LUXEON 2835 Red, Red-Orange, and PC Amber at 120mA.

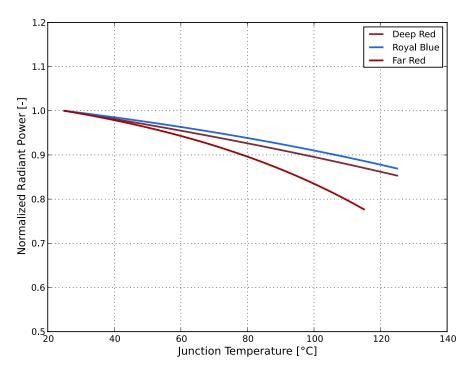


Figure 2c. Typical normalized radiant power vs. junction temperature for LUXEON 2835 Far Red, Deep Red, and Royal Blue at 120mA.

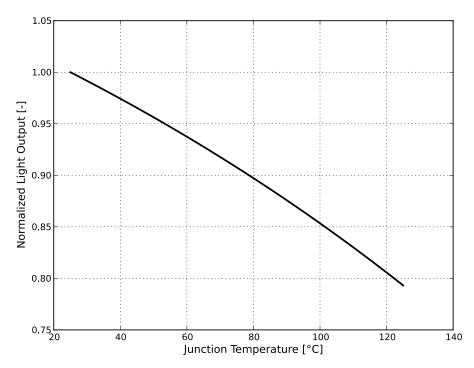


Figure 2d. Typical normalized light output vs. junction temperature for LUXEON 2835 White at 120mA.

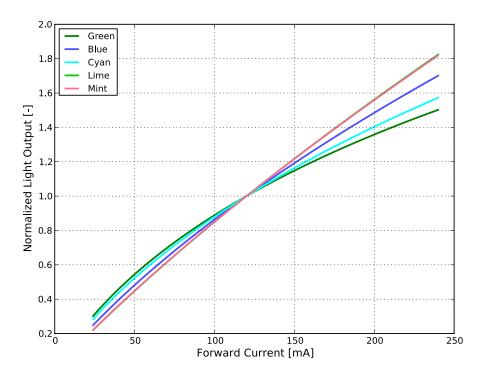


Figure 3a. Typical normalized light output vs. forward current for LUXEON 2835 Mint, Lime, Green, Cyan, and Blue at T_i=25°C.

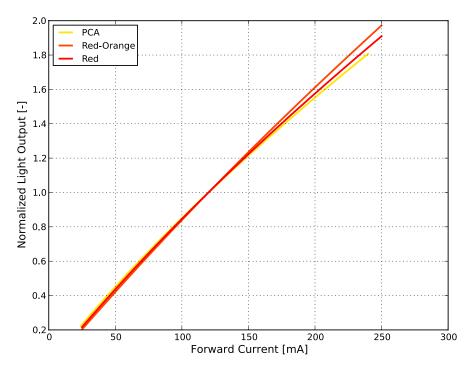


Figure 3b. Typical normalized light output vs. forward current for LUXEON 2835 Red, Red-Orange, and PC Amber at T_i=25°C.

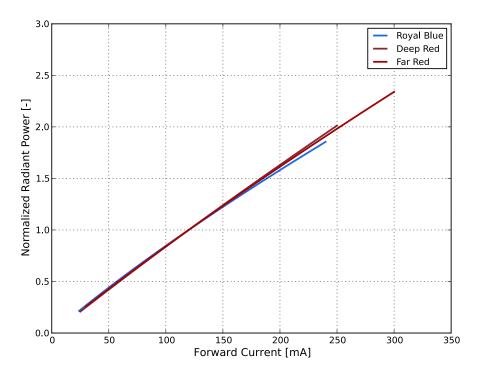


Figure 3c. Typical normalized radiant power vs. forward current for LUXEON 2835 Far Red, Deep Red, and Royal Blue at T_j =25°C.

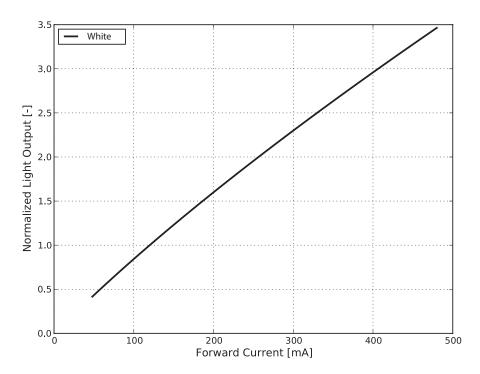


Figure 3d. Typical normalized light output vs. forward current for LUXEON 2835 White at T_i=25°C.

Forward Current Characteristics

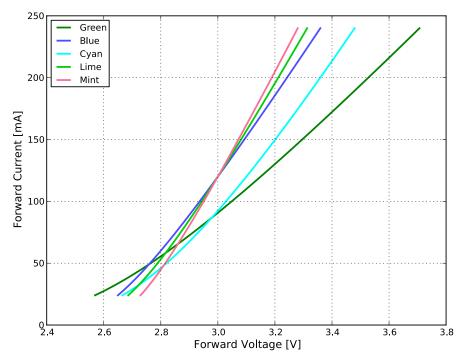


Figure 4a. Typical forward current vs. forward voltage for LUXEON 2835 Mint, Lime, Green, Cyan, and Blue at T_i=25°C.

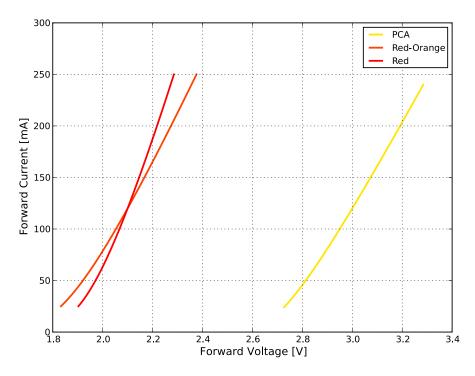


Figure 4b. Typical forward current vs. forward voltage for LUXEON 2835 Red, Red-Orange, and PC Amber at T_i=25°C.

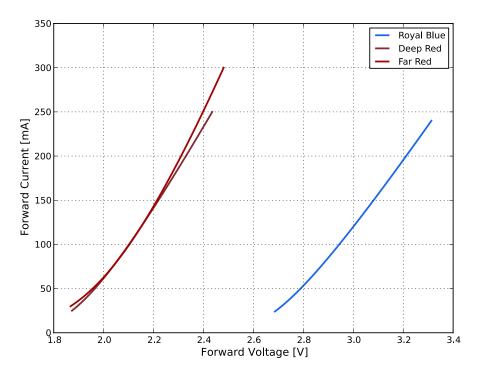


Figure 4c. Typical forward current vs. forward voltage for LUXEON 2835 Far Red, Deep Red, and Royal Blue at T_j =25°C.

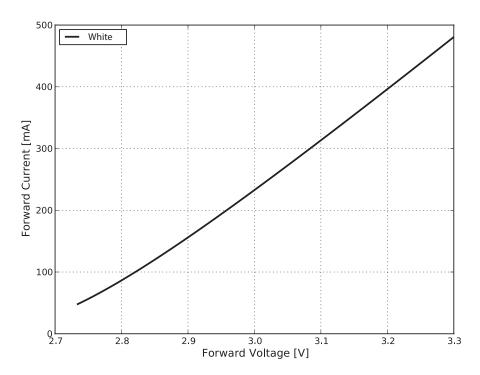


Figure 4d. Typical forward current vs. forward voltage for LUXEON 2835 White at T_i=25°C.

Radiation Pattern Characteristics

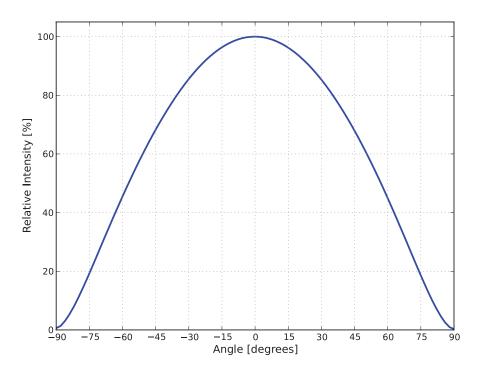


Figure 5. Typical radiation pattern for LUXEON 2835 Color Line at 120mA, T_j =25°C.

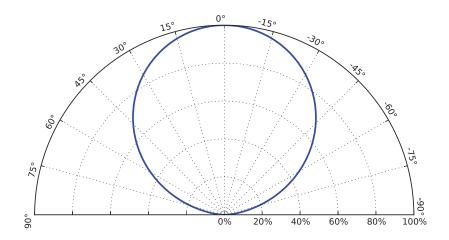


Figure 6. Typical polar radiation pattern for LUXEON 2835 Color Line at 120mA, T_j =25°C.

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 2835 Color Line LEDs are labeled using a 4-digit alphanumeric CAT code following the format below:

ABCD

Where:

- A designates luminous flux bin or radiometric power bin (luminous flux bin example: L=32.0 to 36.0 lm, R=52.0 to 56.0 lm; radiometric power bin example: D=100 to 110mW)
- B C designates color bin, peak wavelength bin or dominant wavelength bin (color bin examples: Lime=20, White 3000K example=7D, 7E, 7F, etc.; peak wavelength bin example: Deep Red 10=650 to 670nm; dominant wavelength bin example: Red 40=620 to 630nm)
- D designates forward voltage bin (example: A=2.80 to 2.90V, C=3.00 to 3.10V)

Therefore, a LUXEON 2835 Lime LED with a lumen range of 32.0 to 36.0 lumens, color bin of 20 and a forward voltage range of 3.00 to 3.10V has the following CAT code:

L 2 0 C

Luminous Flux Bins

Table 5 lists the standard luminous flux bins for LUXEON 2835 Color Line 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 2835 Color Line at T_i=25°C.

DIAL	LUMINOUS	FLUX ^[1] (lm)
BIN	MINIMUM	MAXIMUM
D	13	15
E	15	17
F	17	19
G	19	21
Н	21	24
J	24	28
K	28	32
L	32	36
М	36	40
N	40	44
Р	44	48
Q	48	52
R	52	56
S	56	60
Т	60	65
U	65	70
V	70	75
W	75	80
X	80	85
Υ	85	90

Notes for Table 5:

Radiometric Power Bins

Table 6. Radiometric power bin definitions for LUXEON 2835 Far Red, Deep Red and Royal Blue.

BIN	RADIOMETRIC	POWER ^[1] (mW)
BIIN	MINIMUM	MAXIMUM
A	70	80
В	80	90
C	90	100
D	100	110
E	110	120
F	120	130
G	130	150
Н	150	170
J	170	190
K	190	210
L	210	230
M	230	250

Notes for Table 6:

^{1.} Lumileds maintains a tolerance of $\pm 7.5\%$ on luminous flux measurements.

Lumileds maintains a tolerance of ±6.5% on radiometric power measurements.

Color Bin Definitions

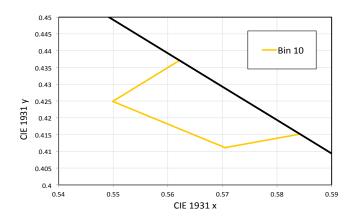


Figure 7. Color Bin Structure for LUXEON 2835 PC Amber for Table 7.

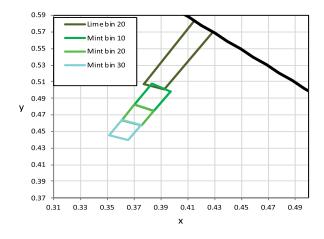


Figure 8. Color Bin Structure for LUXEON 2835 Lime and Mint for Table 7.

Table 7. Color bin definitions for LUXEON 2835 PC Amber and Lime.

COLOR	PART NUMBER	BIN	х	у
			0.5622	0.4372
DC Arehar	L420 DC44002F00000	10	0.5843	0.4152
PC Amber	L128-PCA1003500000	10	0.5705	0.4111
			0.5499	0.4249
			0.3927	0.4986
		10	0.3830	0.5077
	L128-MNT1003500000	10 -	0.3703	0.4825
			0.3846	0.4749
		20	0.3846	0.4749
Mint			0.3703	0.4825
IVIII IL			0.3608	0.4639
			0.3752	0.4572
		20	0.3752	0.4572
			0.3608	0.4639
		30	0.3515	0.4453
			0.3659	0.4396
			0.3773	0.5076
Limo	1 1 2 0 1 ME 1 0 0 2 E 0 0 0 0 0	20	0.3927	0.5007
Lime	L128-LME1003500000	20	0.4287	0.5697
			0.4150	0.5833

Notes for Table 7: 1. Lumileds maintains a tolerance of ± 0.01 on x and y coordinates in the CIE 1931 color space.

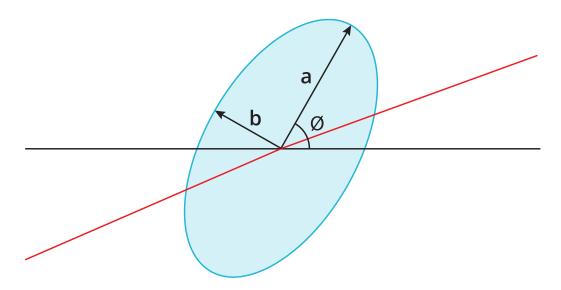


Figure 9. 3- and 5-step MacAdam ellipse illustration for Tables 8a-8c.

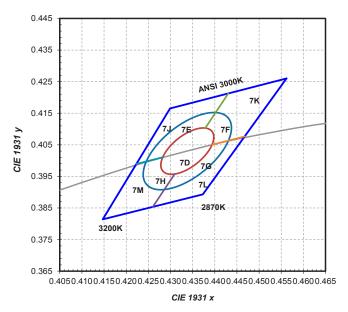


Figure 10a. 1/9th color bin structure for LUXEON 2835 White 3000K at test current and binning temperature of T_j =25°C.

Table 8a. 3- and 5-step MacAdam ellipse color bin definitions for LUXEON 2835E and LUXEON 2835C 3000K, at test and binning conditions.

NOMINAL CCT	COLOR SPACE	CENTER POINT [1] (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 8a: 1. Lumileds maintains a tolerance of ± 0.007 on x and y color coordinates in the CIE 1931 color space.

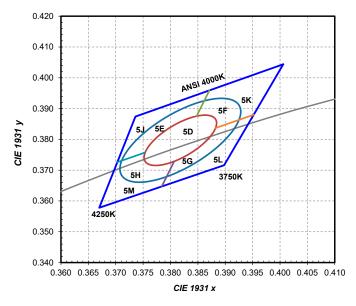


Figure 10b. $1/9^{th}$ color bin structure for LUXEON 2835E and LUXEON 2835C 4000K at test current and binning temperature of T_i =25°C.

Table 8b. 3- and 5-step MacAdam ellipse color bin definitions for LUXEON 2835E and LUXEON 2835C 4000K, at test and binning conditions.

NOMINAL CCT	COLOR SPACE	CENTER POINT [1] (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 8b:

^{1.} Lumileds maintains a tolerance of ± 0.007 on x and y color coordinates in the CIE 1931 color space.

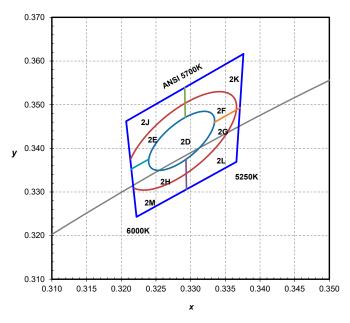


Figure 10c. $1/9^{th}$ color bin structure for LUXEON 2835E and LUXEON 2835C 5700K at test current and binning temperature of T_i=25°C.

Table 8c. 3- and 5-step MacAdam ellipse color bin definitions for LUXEON 2835E and LUXEON 2835C 5700K, at test and binning conditions.

NOMINAL CCT	COLOR SPACE	CENTER POINT [1] (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 8c:

^{1.} Lumileds maintains a tolerance of ± 0.007 on x and y color coordinates in the CIE 1931 color space.

Peak Wavelength Bins

Table 9. Peak wavelength bin definitions for LUXEON 2835 Far Red, Deep Red and Royal Blue.

COLOR	PART NUMBER	BIN	PEAK WAVELENGTH [1] (nm)		
			MINIMUM	MAXIMUM	
Far Red	L128-FRD1003500000	10	720	740	
Deep Red	L128-DRD1003500000	10	650	670	
Royal Blue	L128-RYL1003500000	30	440	445	
		40	445	450	
		50	450	455	

Dominant Wavelength Bins

Table 10. Dominant wavelength bin definitions for LUXEON 2835 Red, Red-Orange, Green, Cyan and Blue.

COLOR	PART NUMBER	BIN	DOMINANT WAVELENGTH [1] (nm)		
COLOR			MINIMUM	MAXIMUM	
Red	L128-RED1003500000	40	620	630	
	L128-RNG1003500000	20	610	620	
	L128-GRN1003500000	10	520	525	
Constant		20	525	530	
Green		30	530	535	
		40	535	540	
		10	490	495	
	L 120 CVAL1002F00000	20	495	500	
Cyan	L128-CYN1003500000	30 500	505		
		40	505	510	
	1420 DILI4002500000	20	469	475	
Blue	L128-BLU1003500000	30	475	480	

Notes for Table 10:

Notes for Table 9:

1. Lumileds maintains a tolerance of ±0.5nm on peak wavelength measurements.

Lumileds maintains a tolerance of ±1nm on dominant wavelength measurements.

Forward Voltage Bins

Table 11a. Forward voltage bin definitions for LUXEON 2835 Far Red, Deep Red, Red and Red-Orange.

BIN	FORWARD VOLTAGE [1] (V _f)		
DIIN	MINIMUM	MAXIMUM	
В	1.80	2.00	
С	2.00	2.20	
D	2.20	2.40	
E	2.40	2.60	

Table 11b. Forward voltage bin definitions for LUXEON 2835 PC Amber, Mint, Lime, Green, Cyan, Blue, Royal Blue and White.

BIN	FORWARD VOLTAGE [1] (V _t)			
DIIV	MINIMUM	MAXIMUM		
Z	2.70	2.80		
А	2.80	2.90		
В	2.90	3.00		
С	3.00	3.10		
D	3.10	3.20		
Е	3.20	3.30		

Notes for Tables 11a and 11b:

Mechanical Dimensions

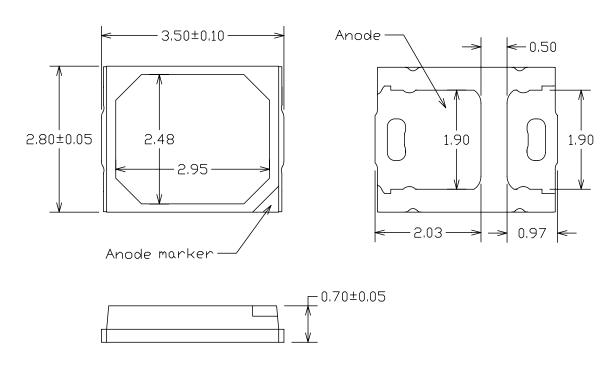


Figure 11. Mechanical dimensions for LUXEON 2835 Color Line.

Notes for Figure 11:

- Drawings are not to scale.
 All dimensions are in millimeters.
- Tolerance of ±0.1mm.

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

Reflow Soldering Guidelines

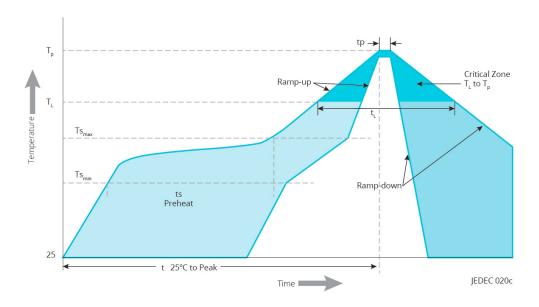


Figure 12. Visualization of the acceptable reflow temperature profile as specified in Table 12.

Table 12. Reflow profile characteristics for LUXEON 2835 Color Line.

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 $T_L(t_L)$	10 to 30 seconds	
Peak / Classification Temperature (T _p)	260°C	
Time Within 5°C of Actual Temperature (t _p)	30 seconds	
Ramp-Down Rate (T_p to T_L)	6°C / second maximum	
Time 25°C to Peak Temperature	8 minutes maximum	

JEDEC Moisture Sensitivity

Table 13. Moisture sensitivity levels for LUXEON 2835 Color Line.

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

Solder Pad Design

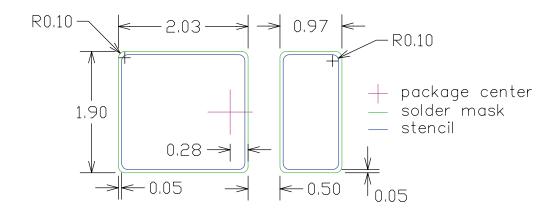


Figure 13. Recommended PCB solder pad layout for LUXEON 2835 Color Line.

Notes for Figure 13:

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

Packaging Information

Pocket Tape Dimensions

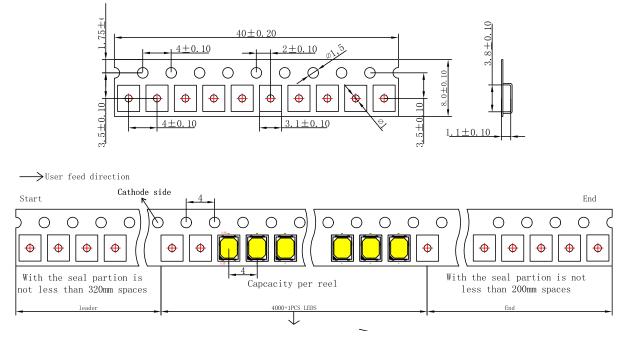


Figure 14. Pocket Tape dimensions for LUXEON 2835 Color Line.

Notes for Figure 14:

- Drawings are not to scale.
 All dimensions are in millimeters.
- 3. Empty components pockets sealed with top cover tape.

Reel Dimensions

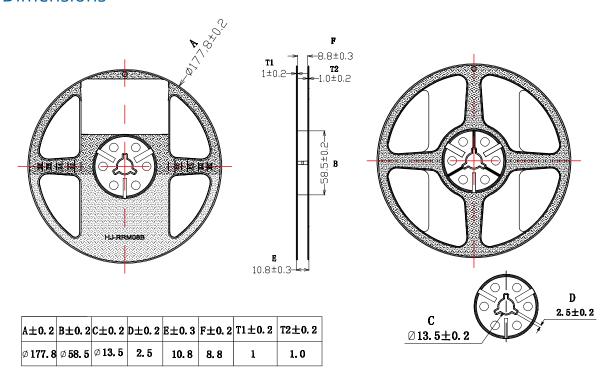


Figure 15. Reel dimensions for LUXEON 2835 Color Line.

- Notes for Figure 15:

 1. Drawings are not to scale.

 2. All dimensions are in millimeters.

 3. Empty component pockets sealed with top cover tape.

 4. 329mm reel 5,000 pieces per reel.

 5. Minimum packing quantity is 5,000 pieces.

 6. The maximum number of consecutive missing LEDs is two.

 7. In accordance with EIA-481-1-B specification.

About Lumileds

Companies developing automotive, mobile, IoT and illumination lighting applications need a partner who can collaborate with them to push the boundaries of light. With over 100 years of inventions and industry firsts, Lumileds is a global lighting solutions company that helps customers around the world deliver differentiated solutions to gain and maintain a competitive edge. As the inventor of Xenon technology, a pioneer in halogen lighting and the leader in high performance LEDs, Lumileds builds innovation, quality and reliability into its technology, products and every customer engagement. Together with its customers, Lumileds is making the world better, safer, more beautiful—with light.

To learn more about our lighting solutions, visit lumileds.com.



©2020 Lumileds Holding B.V. All rights reserved. LUXEON is a registered trademark of the Lumileds Holding B.V. in the United States and other countries. lumileds.com

Neither Lumileds Holding B.V. nor its affiliates shall be liable for any kind of loss of data or any other damages, direct, indirect or consequential, resulting from the use of the provided information and data. Although Lumileds Holding B.V. and/or its affiliates have attempted to provide the most accurate information and data, the materials and services information and data are provided "as is," and neither Lumileds Holding B.V. nor its affiliates warrants or guarantees the contents and correctness of the provided information and data. Lumileds Holding B.V. and its affiliates reserve the right to make changes without notice. You as user agree to this disclaimer and user agreement with the download or use of the provided materials, information and data. A listing of Lumileds product/patent coverage may be accessed at lumileds.com/patents.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Lumileds:

<u>L128-RED1003500000</u> <u>L128-RYL1003500000</u> <u>L128-LME1003500000</u> <u>L128-MNT1003500000</u> <u>L128-PCA1003500000</u> <u>L128-RNG1003500000</u> <u>L128-CYN1003500000</u> <u>L128-DRD1003500000</u> <u>L128-FRD1003500000</u> <u>L128-GRN1003500000</u> <u>L128-BLU1003500000</u>