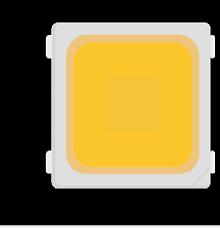




Bridgelux[®] SMD 3030 0.2W 3V

Product Data Sheet DS1709

Introduction



Features

- Industry-standard 3030 footprint
- Enables 3- and 6-step MacAdam ellipse custom binning kits
- RoHS compliant and lead free
- Multiple CCT configurations for a wide range of lighting applications
- High efficacy solution

Benefits

- Lower operating and manufacturing cost
- Ease of design and rapid go-to-market
- Uniform, consistent white light

SMD 3030

- Reliable and constant white point
- Compliant with environmental standards
- Design flexibility

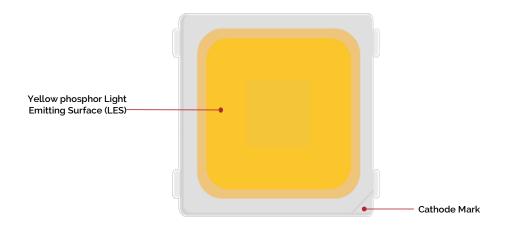


Contents

Product Feature Map	2
Product Nomenclature	2
Product Selection Guide	3
Electrical Characteristics	4
PPF&PPE Characteristics	6
Absolute Maximum Ratings	6
Product Bin Definitions	7
Performance Curves	10
Typical Radiation Pattern	13
Typical Color Spectrum	14
Mechanical Dimensions	15
Reliability	16
Reflow Characteristics	17
Packaging	18
Design Resources	20
Precautions	20
Disclaimers	20
About Bridgelux	21

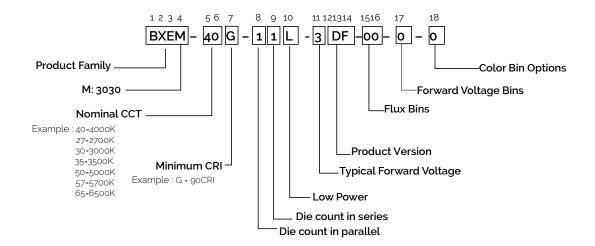
Product Feature Map

Bridgelux SMD LED products come in industry standard package sizes and follow ANSI binning standards. These LEDs are optimized for cost and performance, helping to ensure highly competitive system lumen per dollar performance while addressing the stringent efficacy and reliability standards required for modern lighting applications.



Product Nomenclature

The part number designation for Bridgelux SMD 3030 is explained as follows:



Product Selection Guide

The following product configurations are available: **Table 1:** Selection Guide, Pulsed Measurement Data at 65mA (T_i=T_{sn}=25°C)

Part Number ¹⁶	Nominal CCT ² (K)	CRI ^{3.5}	Nominal Drive Current	Fc	orward Voltage (V)	9 ^{4. 5}	Typical Pulsed Flux (lm)4.5	Typical Power (W/)	Typical Efficacy (lm/W)
			(mA)	Min	Typical	Max		(~~)	(u1)/ w/
BXEM-27G-11L-3DF-00-0-0	2700	90	65	2.60	2.70	2.80	31.0	0.2	177
BXEM-30G-11L-3DF-00-0-0	3000	90	65	2.60	2.70	2.80	32.0	0.2	182
BXEM-35G-11L-3DF-00-0-0	3500	90	65	2.60	2.70	2.80	33.0	0.2	188
BXEM-40G-11L-3DF-00-0-0	4000	90	65	2.60	2.70	2.80	35.0	0.2	199
BXEM-50G-11L-3DF-00-0-0	5000	90	65	2.60	2.70	2.80	35.0	0.2	199
BXEM-57G-11L-3DF-00-0-0	5700	90	65	2.60	2.70	2.80	34.0	0.2	194
BXEM-65G-11L-3DF-00-0-0	6500	90	65	2.60	2.70	2.80	34.0	0.2	194

Table 2: Selection Guide, Pulsed Test Performance $(T_{sp} = 85^{\circ}C)^{7.8}$

Part Number ¹⁶	Nominal CCT ² (K)	CRI ^{3.5}	Nominal Drive Current	Fc	rward Voltage (V)	9 ^{4, 5}	Typical Pulsed Typical Power		Typical Efficacy
	(67)		(mA)	Min	Typical	Max	riux (im)***	(\w)	(lm/W)
BXEM-27G-11L-3DF-00-0-0	2700	90	65	2.55	2.65	2.75	28.5	0.2	165
BXEM-30G-11L-3DF-00-0-0	3000	90	65	2.55	2.65	2.75	29.5	0.2	171
BXEM-35G-11L-3DF-00-0-0	3500	90	65	2.55	2.65	2.75	30.5	0.2	177
BXEM-40G-11L-3DF-00-0-0	4000	90	65	2.55	2.65	2.75	32.0	0.2	186
BXEM-50G-11L-3DF-00-0-0	5000	90	65	2.55	2.65	2.75	32.0	0.2	186
BXEM-57G-11L-3DF-00-0-0	5700	90	65	2.55	2.65	2.75	31.0	0.2	180
BXEM-65G-11L-3DF-00-0-0	6500	90	65	2.55	2.65	2.75	31.0	0.2	180

Notes for Tables 1 & 2:

- 1. The last 6 characters (including hyphens '-') refer to flux bins, forward voltage bins, and color bin options, respectively. "00-0-0" denotes the full distribution of Flux, forward voltage, and color bin.
- Example: BXEM-40G-11L-3DF-00-0-0 refers to the full distribution of flux, forward voltage, and color within a 4000K 6-step ANSI standard chromaticity region with a minimum of 90 CRI, 1 die configuration, low power, 2.7V typical forward voltage.
- 2. Product CCT is the nominal CCT at Tsp = 25°C as defined by ANSI C78.377-2011.
- 3. Listed CRIs are minimum values.
- 4. Products tested under pulsed condition (10ms pulse width) at nominal drive current .
- 5. Bridgelux maintains a ±7.5% tolerance on luminous flux measurements, ±0.1V tolerance on forward voltage measurements, and ±2 tolerance on CRI measurements for the SMD 3030.
- 6. Refer to Table 6 and Table 7 for Bridgelux SMD 3030 Luminous Flux Binning and Forward Voltage Binning information.
- 7. Typical pulsed test performance values are provided as reference only and are not a guarantee of performance.
- 8. Typical performance is estimated based on operation under pulsed current with LED emitter mounted onto a heat sink with thermal interface material and the solder point temperature maintained at 85°C. Based on Bridgelux test setup, values may vary depending on the thermal design of the luminaire and the exposed environment to which the product is subjected.

g. In order to ensure the accuracy of the test by Everfine sphere the test model suggest to use conventional test preheat for 30ms integrating time for 20ms. If using pulse model, pulse width suggest to use IP 80-90%. Hot cold test must use conventional test and wavelength accuracy is required to be 1nm. The test conditions must be fixed.

Electrical Characteristics

Table 3: SMD 3030 LEDs specifications at nominal drive current are shown in Table 1 and Table 2. SMD 3030 may alsobe driven at other drive currents dependent on specific application design requirements. The performance at any drivecurrent can be derived from the current vs. voltage characteristics shown in Figure 2 and the relative luminous flux vs.current characteristics shown in Figure 3. The performance at commonly used drive currents is summarized in Table 3.Table 3: Performance at Commonly Used Drive Currents

Part Number	CRI	Drive Current (mA)	Typical Vf(V) Tsp = 25°C	Typical Power (W) Tsp = 25°C	Typical Pulsed Flux (lm) ^{1.2} T _{sp} =25*C	Typical Pulsed Flux (lm) ^{1,2} T _{sp} =85*C	Typical Efficacy (lm/W) Tsp = 25°C
		20	2.61	0.052	9.4	8.6	180
		65	2.70	0.175	31.0	28.5	177
		100	2.72	0.272	46.4	42.6	171
		150	2.77	0.416	68.7	63.2	(lm/W) Tsp = 25°C 180 177
BXEM-27G-11L-3DF-00-0-0	90	200	2.82	0.564	90.4	83.1	160
		250	2.86	0.716	111.5	102.5	156
		300	2.90	0.871	132.0	121.3	151
		350	2.94	1.029	151.8	139.5	147
		20	2.61	0.052	9.8	9.0	188
		65	2.70	0.175	32.0	29.5	182
		100	2.72	0.272	48.3	44.5	177
		150	2.77	0.416	71.5	65.9	172
BXEM-30G-11L-3DF-00-0-0	90	200	2.82	0.564	94.0	86.7	167
		250	2.86	0.716	115.9	106.9	162
		300	2.90	0.871	137.2	126.5	158
		350	2.94	1.029	157.9	145.6	153
		20	2.61	0.052	10.1	9.4	194
		65	2.70	0.175	33.0	30.5	188
		100	2.72	0.272	49.8	46.0	183
		150	2.77	0.416	73.7	68.1	177
BXEM-35G-11L-3DF-00-0-0	90	200	2.82	0.564	97.0	89.6	172
		250	2.86	0.716	119.6	110.5	167
		300	2.90	0.871	141.5	130.8	162
		350	2.94	1.029	162.8	150.4	158
		20	2.61	0.052	10.7	9.8	206
		65	2.70	0.176	35.0	32.0	199
		100	2.72	0.272	52.8	48.3	194
BXEM-40G-11L-3DF-00-0-0		150	2.77	0.416	78.2	71.4	188
BXEM-50G-11L-3DF-00-0-0	90	200	2.82	0.564	102.8	94.0	182
		250	2.86	0.716	126.8	115.9	177
		300	2.90	0.871	150.1	137.2	172
		350	2.94	1.029	172.7	157.8	168

Electrical Characteristics

Part Number	CRI	Drive Current (mA)	Typical Vf(V) Tsp = 25°C	Typical Power (W) Tsp = 25°C	Typical Pulsed Flux (lm) ^{1,2} T _{sp} =25°C	Typical Pulsed Flux (lm) ^{1,2} T _{sp} =85*C	Typical Efficacy (lm/W) Tsp = 25*C
		20	2.61	0.052	10.4	9.5	200
		65	2.70	0.176	34.0	31.0	194
		100	2.72	0.272	51.3	46.8	189
		150	2.77	0.416	75.9	69.3	183
BXEM-57G-11L-3DF-00-0-0	90	200	2.82	0.564	99.9	91.1	177
		250	2.86	0.716	123.2	112.4	172
		300	2.90	0.871	145.8	133.0	167
		350	2.94	1.029	167.7	153.0	163
		20	2.61	0.052	10.2	9.3	196
		65	2.70	0.176	34.0	31.0	194
		100	2.72	0.272	50.1	45.7	184
		150	2.77	0.416	74.2	67.7	179
BXEM-65G-11L-3DF-00-0-0	90	200	2.82	0.564	97.6	89.0	173
		250	2.86	0.716	120.3	109.7	168
		300	2.90	0.871	142.3	129.8	163
		350	2.94	1.029	163.7	149.3	159

Notes for Table 3:

1. Alternate drive currents in Table 3 are provided for reference only and are not a guarantee of performance.

2. Bridgelux maintains a ± 7.5% tolerance on flux measurements.

3. Typical pulsed performance values are provided as reference only and are not a guarantee of performance.

Table 4: Electrical Characteristics

	Drive Current	Fo	Forward Voltage (V) ^{1.2}				Typical Temperature Coefficient	Typical Thermal Resistance
Part Number ¹	(mA)	Minimum	Typical	Maximum	of Forward Voltage ∆V,∕∆T (mV∕°C)	Junction to Solder Point ³ R _{j-sp} (°C/W)		
BXEM-xxG-11L-3DF-00-0-0	65	2.6	2.7	2.8	-1.03	7.5		

Notes for Table 4:

1. Bridgelux maintains a tolerance of ± 0.1V on forward voltage measurements. Voltage minimum and maximum values at the nominal drive current are guaranteed by 100% test.

2. Products tested under pulsed condition (10ms pulse width) at nominal drive current where Tsp = 25°C.

3. Thermal resistance value was calculated using total electrical input power; optical power was not subtracted from input power.

Product Bin Definitions

Table 5: Electro-optical Characteristics (IF = 65 mA, Ts= 25°C)

Deut Number 1	lf[mA]	5	35	65	110	155	200	245	305	350
Part Number ¹	Vf[V]	2.55	2.64	2.68	2.73	2.78	2.82	2.86	2.91	2.94
	PPF[umol/s]	0.04	0.27	0.49	0.82	1.13	1.44	1.74	2.12	2.40
BXEM-27G-11L-3DF-00-0-0	PPE[umol/J]	2.84	2.89	2.82	2.73	2.64	2.56	2.48	2.39	2.33
	PPF[umol/s]	0.04	0.27	0.49	0.82	1.14	1.45	1.75	2.13	2.41
BXEM-30G-11L-3DF-00-0-0	PPE[umol/J]	2.81	2.88	2.82	2.73	2.64	2.57	2.49	2.40	2.34
	PPF[umol/s]	0.04	0.28	0.51	0.85	1.19	1.51	1.82	2.22	2.52
BXEM-35G-11L-3DF-00-0-0	PPE[umol/J]	2.93	3.00	2.94	2.84	2.75	2.68	2.60	2.51	2.44
BXEM-40G-11L-3DF-00-0-0	PPF[umol/s]	0.04	0.29	0.53	0.89	1.23	1.57	1.89	2.32	2.62
BXEM-50G-11L-3DF-00-0-0	PPE[umol/J]	3.06	3.12	3.05	2.96	2.86	2.78	2.70	2.61	2.55
BXEM-57G-11L-3DF-00-0-0	PPF[umol/s]	0.04	0.28	0.51	0.86	1.19	1.52	1.83	2.24	2.54
BXEM-65G-11L-3DF-00-0-0	PPE[umol/J]	2.96	3.02	2.95	2.86	2.77	2.69	2.62	2.52	2.46

Note for Table 5:

Bridgelux maintains a tolerance of $\pm\,5\%$ on PPF measurements.

Table 6: Maximum Ratings

Parameter	Maximum Rating					
LED Junction Temperature (T _j)	125°C					
Storage Temperature	-40°C to +105°C					
Operating Solder Point Temperature (T_{sp})	-40°C to +105°C					
Soldering Temperature	260°C or lower for a maximum of 10 seconds					
Maximum Drive Current	350mA					
Maximum Peak Pulsed Forward Current ¹	500mA					
Maximum Reverse Voltage ²	-					
Moisture Sensitivity Rating	MSL 3					
Electrostatic Discharge	8kV HBM. JEDEC-JS-001-HBM and JEDEC-JS-001-2012					

Notes for Table 6:

1. Bridgelux recommends a maximum duty cycle of 10% and pulse width of 10 ms when operating LED SMD at maximum peak pulsed current specified. Maximum peak pulsed current indicate values where LED SMD can be driven without catastrophic failures.

2. Light emitting diodes are not designed to be driven in reverse voltage and will not produce light under this condition. no rating is provided

Table 7 : lists the standard photometric luminous bins for Bridgelux SMD 3030 LEDs. Although several bins are listed, product availability in a particular bin varies by production run and by product performance. Not all bins are available in all CCTs.

Bin Code	Minimum	Maximum	Unit	Condition
1E	30	32		
1F	32	34		
1G	34	36	lm	I _F =65mA
1H	36	38		
1J	38	40		

Note for Table 7:

1. Bridgelux maintains a tolerance of ± 7.5% on luminous flux measurements.

Table 8: Forward Voltage Bin Definition at 65mA, T_{sp} =25°C

Bin Code	Minimum	Maximum	Unit	Condition
8	2.6	2.7		
9	2.7	2.8	V	I _F =65mA
A	2.8	2.9		

Note for Table 8:

1. Bridgelux maintains a tolerance of \pm 0.1V on forward voltage measurements.

Product Bin Definitions

сст		Cente	r Point	Moier Avia	Minor Axis	Ellipse	Color Bin
	Color Space	x	Y	Major Axis		Rotation Angle	Color Bin
	3 SDCM	0.4578	0.4101	0.0081	0.0042	53.70	1
2700K	6 SDCM	0.4578	0.4101	0.0162	0.0084	53.70	1/A/B/C/D
	3 SDCM	0.4338	0.4030	0.00834	0.00408	53.22	1
3000K	6 SDCM	0.4338	0.4030	0.01668	0.00816	53.22	1/A/B/C/D
	3 SDCM	0.4078	0.3930	0.00834	0.00408	54.00	1
3500K	6 SDCM	0.4078	0.3930	0.01668	0.00816	54.00	1/A/B/C/D
	3 SDCM	0.3818	0.3797	0.00939	0.00402	53.72	1
4000K	6 SDCM	0.3818	0.3797	0.01878	0.00804	53.72	1/A/B/C/D
	3 SDCM	0.3447	0.3553	0.00822	0.00354	59.62	1
5000K	6 SDCM	0.3447	0.3553	0.01644	0.00708	59.62	1/A/B/C/D
	3 SDCM	0.3287	0.3417	0.00746	0.00320	59.09	1
5700K	6 SDCM	0.3287	0.3417	0.01492	0.0064	59.09	1/A/B/C/D
	3 SDCM	0.3123	0.3282	0.00669	0.00285	58.57	1
6500K	6 SDCM	0.3123	0.3282	0.01338	0.0057	58.57	1/A/B/C/D

Table 9: MacAdam Ellipse Color Bin Definitions

Notes for Table 9:

1. Color binning at T_{sp} =85°C unless otherwise specified.

2. Bridgelux maintains a tolerance of ± 0.007 on x and y color coordinates in the CIE 1931 color space.

Product Bin Definitions

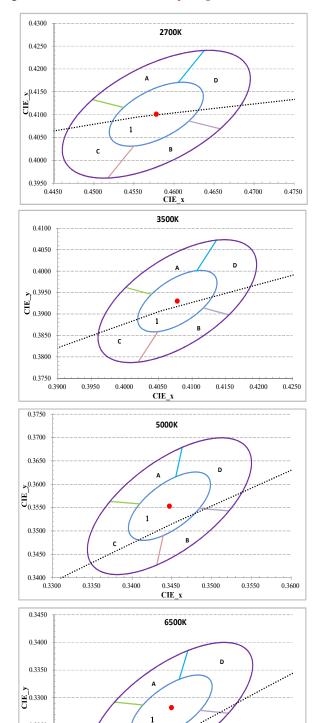
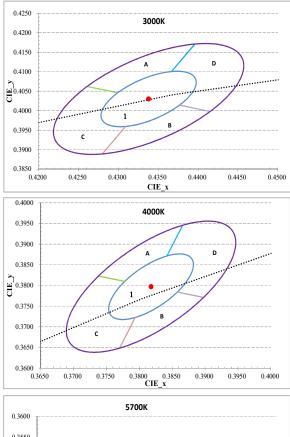
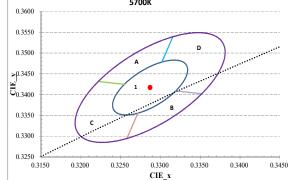


Figure 1: C.I.E. 1931 Chromaticity Diagram (5 Color Bin Structure, Hot-color Targeted at T_{sp}=85°C)





Bridgelux SMD 3030 0.2W 3V Product Data Sheet DS1709 Rev. B (02/2025)

0.3100 CIE_x 0.3150

0.3200

0.3250

с

0.3050

0.3250

0.3200

0.3150

Performance Curves

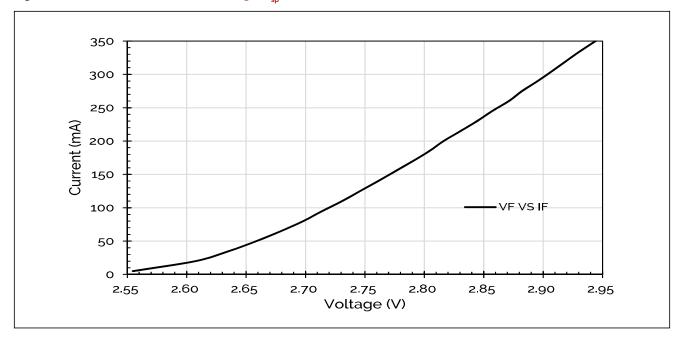
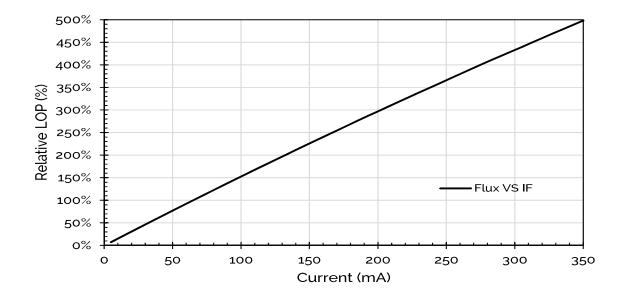


Figure 2: Drive Current vs. Forward Voltage (T_{sp}=25°C)





Note for Figure 3:

1. Pulse width modulation (PWM) is recommended for dimming effects.

Performance Curves

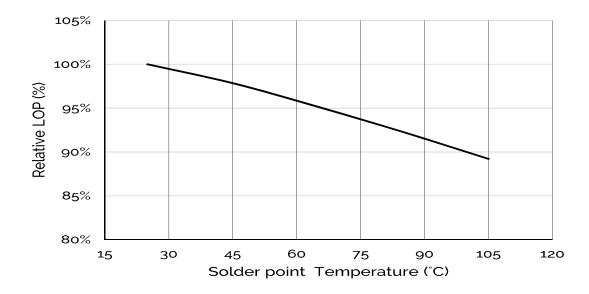
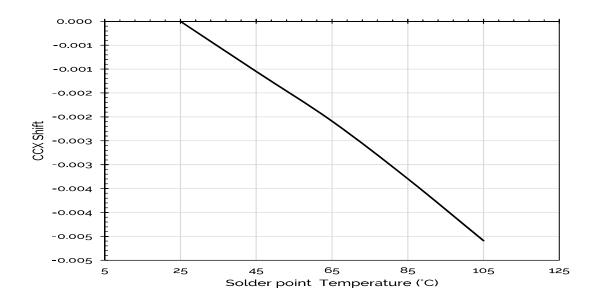


Figure 4: Typical Relative Flux vs. Solder Point Temperature





Notes for Figures 4 & 5:

1. Characteristics shown for neutral white based on 4000K and 90 CRI.

2. For other color SKUs, the shift in color will vary. Please contact your Bridgelux Sales Representative for more information

Performance Curves

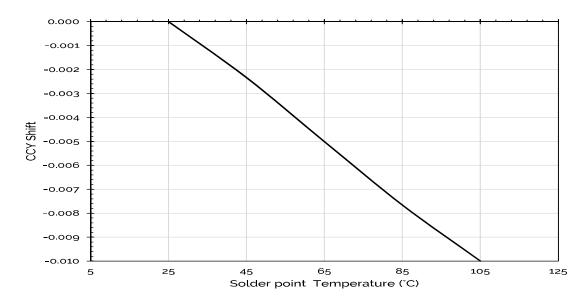


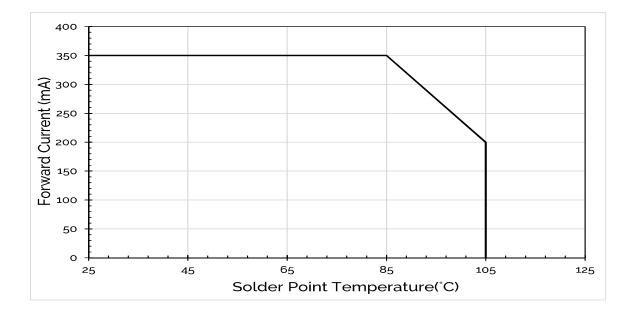
Figure 6: Typical ccy Shift vs. Solder Point Temperature

Notes for Figure 6:

1. Characteristics shown for neutral white based on 4000K and 90 CRI.

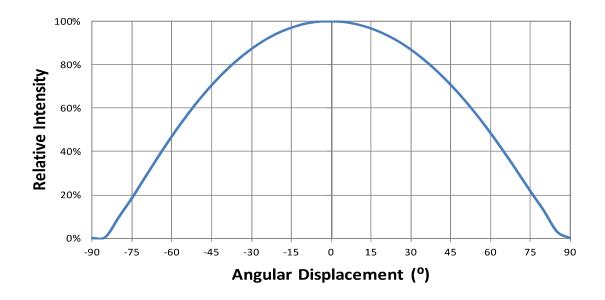
2. For other color SKUs, the shift in color will vary. Please contact your Bridgelux Sales Representative for more information.

Figure 7: Drive Current vs Solder Point Temperature



Typical Radiation Pattern

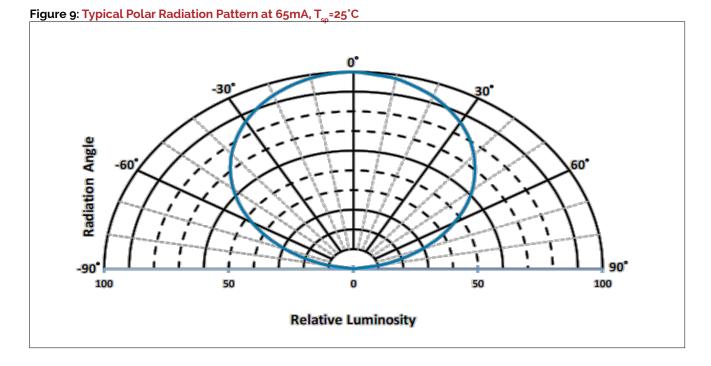
Figure 8: Typical Spatial Radiation Pattern at 65mA, T_{sp}=25°C



Notes for Figure 8:

1. Typical viewing angle is 120°.

2. The viewing angle is defined as the off axis angle from the centerline where luminous intensity (Iv) is ½ of the peak value.



Typical Color Spectrum

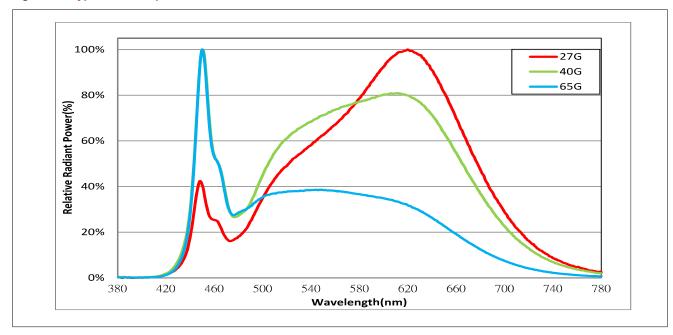


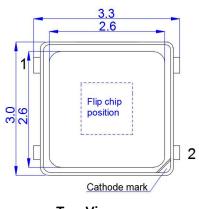
Figure 10: Typical Color Spectrum

Notes for Figure 10:

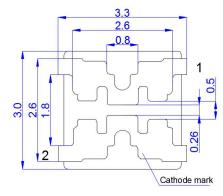
- 1. Color spectra measured at nominal current for Tsp = 25 $^\circ\mathrm{C}$
- 2. Color spectra shown for 2700K/4000K/6500K CRI90 products.

Mechanical Dimensions

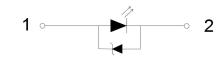
Figure 11: Drawing for SMD 3030



Top View



Bottom View



Circuit Digram

Side View

3.3

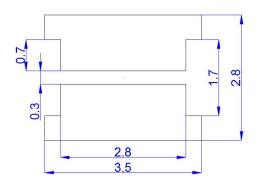


1. Drawings are not to scale.

0.75

- 2. Drawing dimensions are in millimeters.
- 3. Unless otherwise specified, tolerances are ± 0.10mm.

Recommended PCB Soldering Pad Pattern



Reliability

No .	ltems	Reference Standard	Test Conditions	Drive Current	Test Duration	Units Failed/Tested
1	Moisture/Reflow Sensitivity	J-STD-020E	T _{sld} = 260°C, 10sec, Precondition: 60°C, 60%RH, 168hr	-	3 reflows	0/20
2	Low Temperature Storage	JESD22-A119	T _a =-40*C	-	1000 hours	0/20
3	High Temperature Storage	JESD22-A103D	T _a = 105°C	-	1000 hours	0/20
4	Low Temperature Operating Life	JESD22-A108D	T _a =-40*C	65mA	1000 hours	0/20
5	Temperature Humidity Operating Life	JESD22-A101C	T _{sp} =85°C, RH=85%	65mA	1000 hours	0/20
6	High Temperature Operating Life	JESD22-A108D	T _{sp} =85 [∗] C	350mA	1000 hours	0/20
7	Power switching	IEC62717:2014	T _{sp} = 85°C 30 sec on, 30 sec off	350mA	30000 cycles	0/20
8	Thermal Shock	JESD22-A106B	T _a =-40°C ~105°C; Dwell : 15min; Transfer: 10sec	-	200 cycles	0/20
9	Temperature Cycle	JESD22-A104E	T _a =-40°C ~100°C; Dwell at extreme temperature: 15min; Ramp rate < 105°C/min	-	200 cycles	0/20
10	Electrostatic Discharge	JS-001-2012	HBM, 8KV, 15kΩ, 100pF, Alternately positive or negative	-	-	0/20

Table 10: Reliability Test Items and Conditions

Passing Criteria

ltem	Symbol	Test Condition	Passing Criteria	
Forward Voltage	Forward Voltage Vf		ΔVf<10%	
Luminous Flux	Fv	65mA	Δ Fv<30%	
Chromaticity Coordinates (x, y)		65mA	Δ u'v'<0.007	

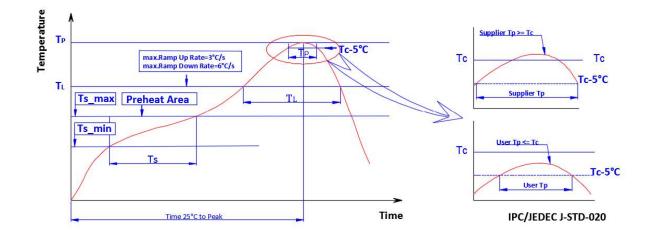
Notes for Table 10:

1. Measurements are performed after allowing the LEDs to return to room temperature

2. $T_{\rm sld}$: reflow soldering temperature; $T_{\rm a}$: ambient temperature

Reflow Characteristics

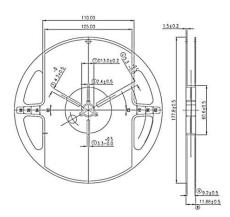
Figure 12 : Reflow Profile



Profile Feature	Lead Free Assembly	
Temperature Min. (Ts_min)	160°C	
Temperature Max. (Ts_max)	205°C	
Time (ts) from Ts_min to Ts_max	60-150 seconds	
Ramp-Up Rate (TL to Tp)	3 °C/second	
Liquidus Temperature (TL)	220 °C	
Time (TL) Maintained Above TL	60-150 seconds	
Peak Temp(Tp)	260 °C max.	
Time (Tp) Within 5 $^\circ\text{C}$ of the Specified Classification Temperature (Tc)	25 seconds max.	
Ramp-Down Rate (Tp to TL)	5 °C/second max.	
Time 25 °C to Peak Temperature	10 minutes max.	

Packaging

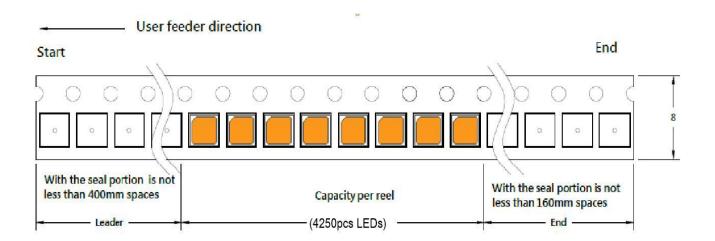
Figure 13: Emitter Reel Drawings



Note for Figure 13:

1. Drawings are not to scale. Drawing dimensions are in millimeters.

Figure 14: Emitter Tape Drawings

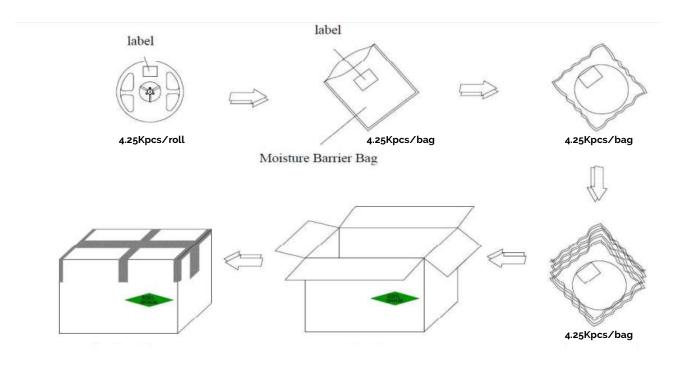


Note for Figure 14:

1. Drawings are not to scale. Drawing dimensions are in millimeters.

Packaging

Figure 15: Emitter Reel Packaging Drawings



Packing Categories	Packing List	LED Q'ty
Small cardboard Box	6 bags	25.5Kpcs
Medium cardboard Box	5 small boxes	127.5Kpcs
Large cardboard Box	10 small boxes	255Kpcs

Note for Figure 15:

1. Drawings are not to scale.

Design Resources

Please contact your Bridgelux sales representative for assistance.

Precautions

CAUTION: CHEMICAL EXPOSURE HAZARD

Exposure to some chemicals commonly used in luminaire manufacturing and assembly can cause damage to the LED emitter. Please consult Bridgelux Application Note AN51 for additional information.

CAUTION: EYE SAFETY

Eye safety classification for the use of Bridgelux SMD LED emitter is in accordance with IEC specification EN62471: Photobiological Safety of Lamps and Lamp Systems. SMD LED emitters are classified as Risk Group 1 when operated at or below the maximum drive current. Please use appropriate precautions. It is important that employees working with LEDs are trained to use them safely.

CAUTION: RISK OF BURN

Do not touch the SMD LED emitter during operation. Allow the emitter to cool for a sufficient period of time before handling. The SMD LED emitter may reach elevated temperatures such that could burn skin when touched.

CAUTION

CONTACT WITH LIGHT EMITTING SURFACE (LES)

Avoid any contact with the LES. Do not touch the LES of the emitter or apply stress to the LES (yellow phosphor resin area). Contact may cause damage to the emitter

Optics and reflectors must not be mounted in contact with the LES (yellow phosphor resin area).

Disclaimers

MINOR PRODUCT CHANGE POLICY

The rigorous qualification testing on products offered by Bridgelux provides performance assurance. Slight cosmetic changes that do not affect form, fit, or function may occur as Bridgelux continues product optimization.

STANDARD TEST CONDITIONS

Unless otherwise stated, LED emitter testing is performed at the nominal drive current.

About Bridgelux: Bridging Light and Life™

At Bridgelux, we help companies, industries and people experience the power and possibility of light. Since 2002, we've designed LED solutions that are high performing, energy efficient, cost effective and easy to integrate. Our focus is on light's impact on human behavior, delivering products that create better environments, experiences and returns—both experiential and financial. And our patented technology drives new platforms for commercial and industrial luminaires.

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