

ET3030RDJ2XXX-0

SPECIFICATION

Research & Development Center		
Approve	Check	Draw
何至年	刘富彬	吴有涛
Version NO. : A1		
Release Date: 2023-06-24		

- Please confirm and fax back to us at 86-755-36697623.
- This page is only for customers to confirm product specifications, if you need detailed specifications, please contact our sales technical staff.
- <http://www.Ebright-led.com>

◆ Product Code Information

CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
example	E	T	2	8	3	5	L	D	C	1	M	N	R	-	0
	E	B	3	0	3	0	P	D	L	1	N	C	A	-	0
	E	Q	2	8	3	5	A	S	N	1	0	B	B	-	1

Product code Digit		Specification
1	E	Company Name : E-bright
2	X	Product Type : TOP LED , Back Light
3 4 5 6	XXXX	Product Size : 2835,3030,5050...
7	X	Lead frame type
8 9	XX	IV Rank
10	X	Voltage:0:2v; 1:3v; 2:6v; 3:9v; 4:12v; 5:15v; 6:18v;7:24v; 8:30v; 9:36v; A:48v;B:54V;C:4v
11	X	CRI:L:68-78 , M:78-89 , H:≥90 , E:90(R9<40) , R:≥95 F :Full spectrum...
12 13	XX	CCT Rank : WR , NR...
14	-	Space character
15	X	Running number

◆ Features

- Lm-80 certification
- Long-life
- High photosynthetic efficiency
- Adaptable

◆ Applications

- Indoor
- Outdoor
- Plant



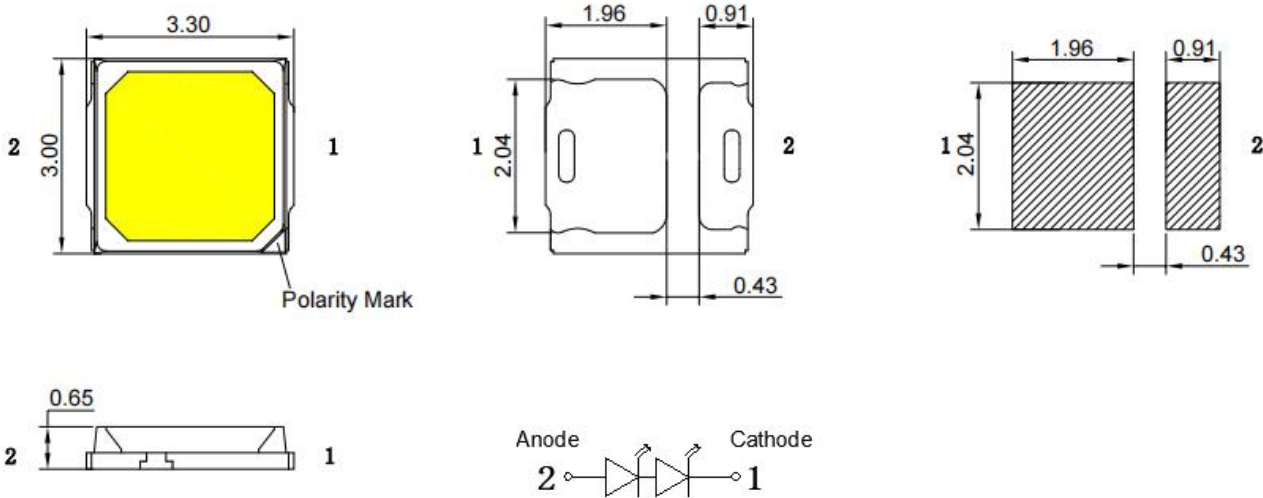
ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATICSENSITIVE DEVICES

RoHS
Compliant

Halogen
Compliant



◆ Package Outline Dimensions



- Note: 1. UNIT: MM [INCH].
- 2. The tolerances unless mentioned is ± 0.1 mm.

■ Recommended solder pad for ET3030R series.

◆ Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating	Unit
DC Forward Current	I _F	165	mA
Operating Temperature	T _{opr}	-40 ~ +80	°C
Soldering Temperature	T _{sol}	260(for 5 seconds)	°C
Junction Temperature	T _j	150	°C
HBM	ESD	2000	V
Thermal resistance	R _{thJS}	18	°C/W

◆ Electro-Optical Characteristics(Ta=25°C)

Parameter	Symbol	Numericalvalue			Unit	Condition
		Min.	Typ.	Max.		
ForwardVoltage	Vf	5.8	6.0	6.4	V	If=150mA
LuminousFlux	LM	---	160	---	lm	If=150mA
ReverseCurrent	IR	---	---	1	μA	Vr=5V
ViewingAngle	2θ1/2	---	120	---	Deg	If=150mA

◆ Parameter classification(Ta=25°C)

• Bin Range of Forward Voltage

Group	Group	Bin Range of Voltage (V)	
V0	A	5.8	6.0
	B	6.0	6.2
	C	6.2	6.4

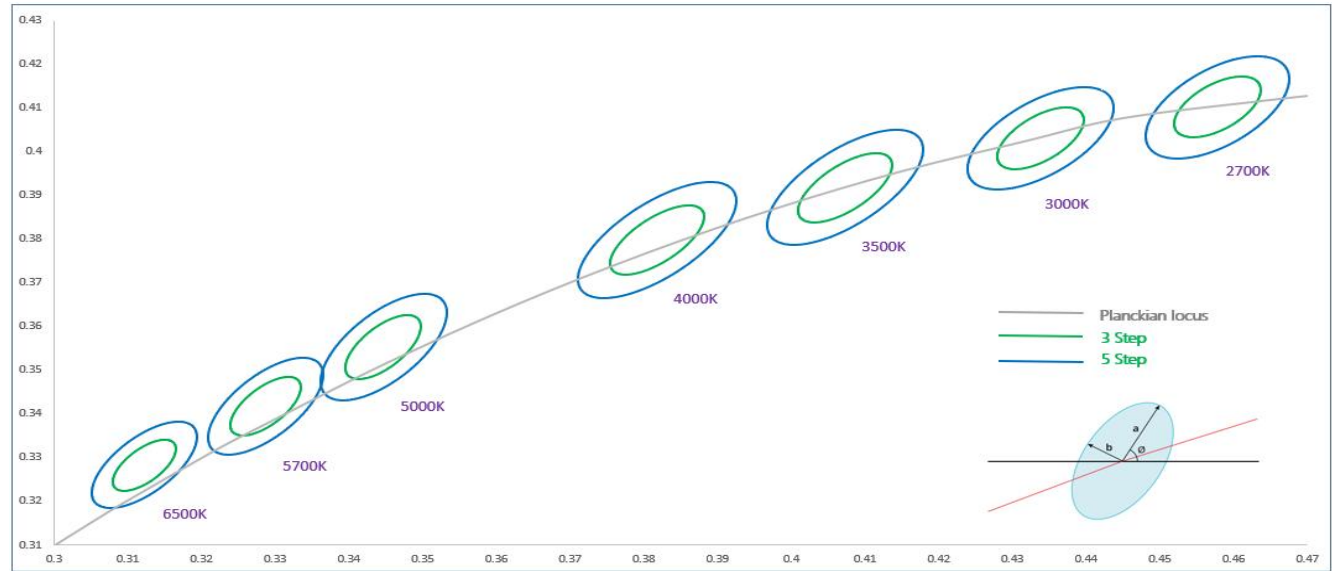
■ Note: Tolerance of Forward Voltage is±0.1V.

• Bin Code of Luminous Flux

Ra	CCT	CCT Rank Code	Luminous Flux Range (lm)	
			Min	Max
70	2700K	VN	155	165
	3000K	WN	160	170
	3500k	MN	165	175
	4000K	NN	170	180
	5000K	FN	170	180
	5700K	EN	165	175
	6500K	PN	165	175
80	2700K	VN	150	160
	3000K	WN	155	165
	3500k	MN	155	165
	4000K	NN	160	170
	5000K	FN	160	170
	5700K	EN	155	165
	6500K	PN	155	165
90	2700K	VN	125	135
	3000K	WN	130	135
	3500k	MN	135	145
	4000K	NN	135	145
	5000K	FN	135	145
	5700K	EN	135	145
	6500K	PN	135	145

■ Note: Tolerance of Luminous Flux is ±5%.

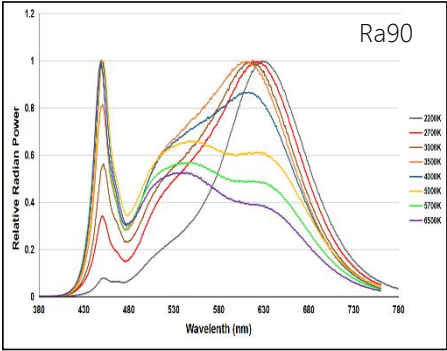
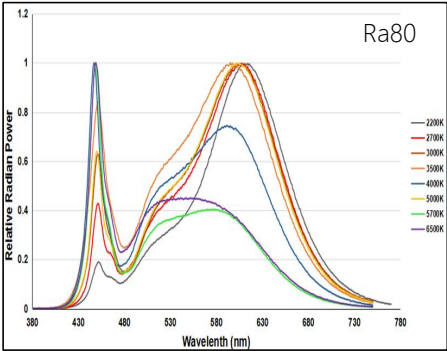
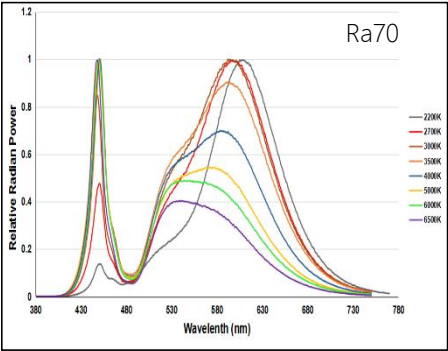
- ◆ Color Bin Definitions (Ta=25°C)
 - MacAdam ellipse color bin definitions



SDCM	CCT	Central Point		Radius		Angle
		X	Y	a	b	θ
5	2700K	0.4578	0.4101	0.01350	0.00700	53.70°
	3000K	0.4338	0.4030	0.01390	0.00680	53.22°
	3500k	0.4073	0.3917	0.01545	0.00690	54.00°
	4000K	0.3818	0.3797	0.01565	0.00670	53.72°
	5000K	0.3447	0.3553	0.01370	0.00590	59.62°
	5700K	0.3287	0.3417	0.01242	0.00533	59.09°
	6500K	0.3123	0.3282	0.01115	0.00475	58.57°

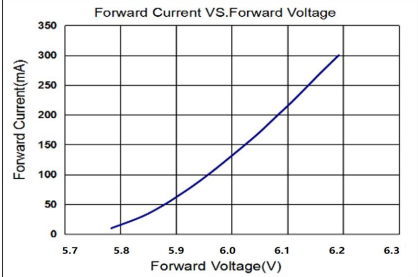
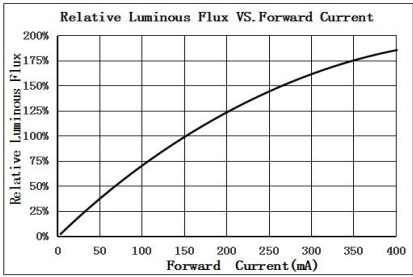
- Color temperature range is McAdam ellipse, Ansi standard.
- The tolerance of the color coordinate xy is ±0.01

- ◆ Characteristic Curves
 - Spectral Power Distribution Characteristics (Ts = 25 °C)

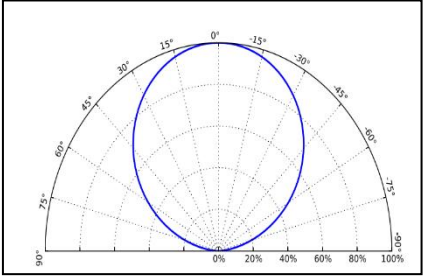


◆ Typical optical characteristics curves

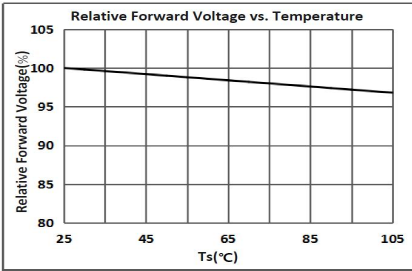
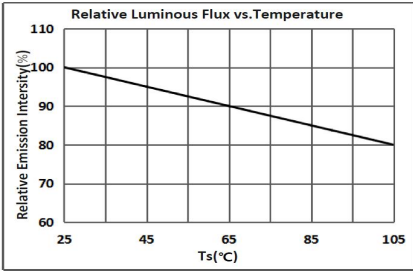
- Forward current characteristic.(Ts = 25 °C)



- Polar radiation pattern

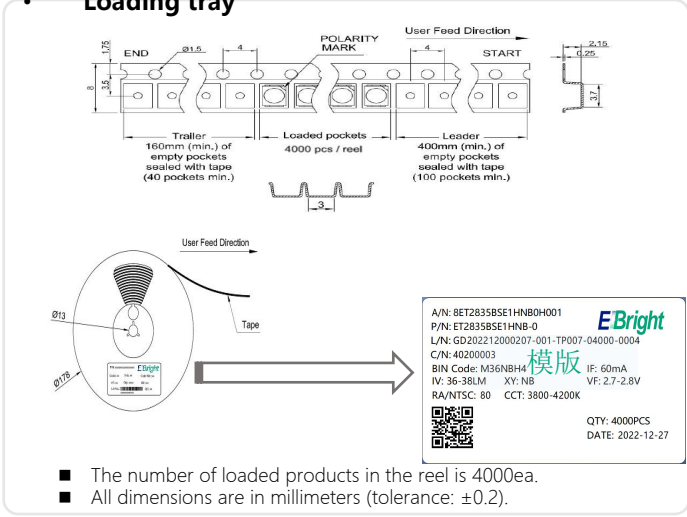


- Temperature characteristic(Ts = 25 °C)

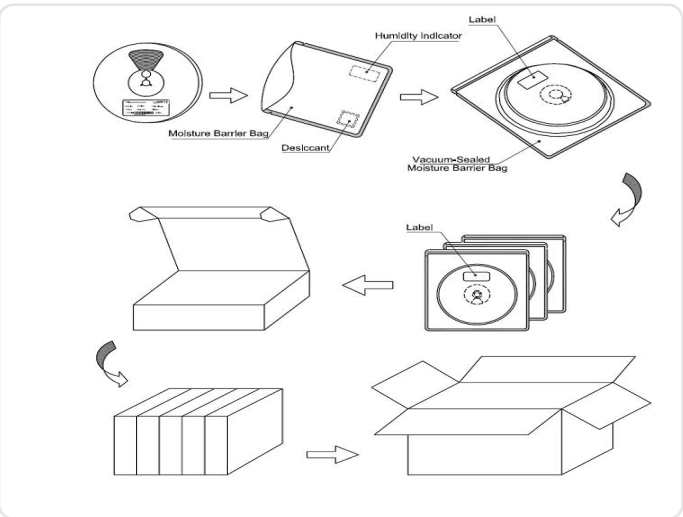


◆ Packing Instruction

- Loading tray



- Packaging



◆ 修订履历

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EBRIGHT photoelectric look forward to working with you hand in hand!