Technical Specifications

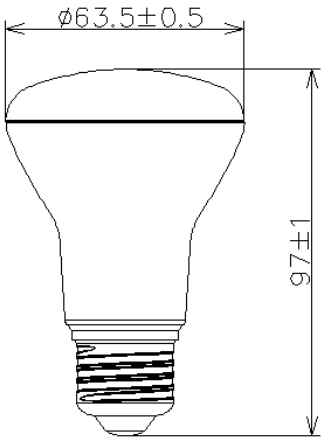
Specifications	BR20 LED 7 WATT, DIMMABLE, Indoor/Outdoor			
Material code			Approval	
Date of setting	2017.11.10	Edition	Review	
Revised date		1.01	Develop	

1.Environment

		spec.	
	typical	min	max
Storage temp.	25℃	-20℃	60℃
Operating temp.	25℃	-20℃	40℃
Storage humidity	60%	——	93%
Operating humidity	60%	——	93%

2.Geometry Property

		spec.	
	typical	min	max
Diameter(mm)	63.5	63	64
MOL(mm)	97	96	98
Weight(g)	50	47.5	52.5
Base	E26		



3.Torsion Resistance of Base

	for US
Strength(N-m)	>=3.0N or standard

4.Electrical Performance

			Spec.	
	unit	Typical	min	max
Consumption Power	(w)	7.0	6.3	7.7
Input Voltage	(v)	120	108	132
Input Current	(A)	0.085	0.075	0.095
Power Factor		0.7	0.7	1
Frequency	(Hz)	60		

5.Photometric Performance

	Spec.			
	unit	Typical	min	max
Color Temp.	(k)	2700	2580	2870
Luminous flux	(lm)	550	550	—
Illuminous(CBCP)	(cd)	—	—	—
CRI(Ra)		80	80	—
R9		—	0	—
Beam Angle	deg	—	—	—
Efficiency	(m/w)	78.5	70.0	—

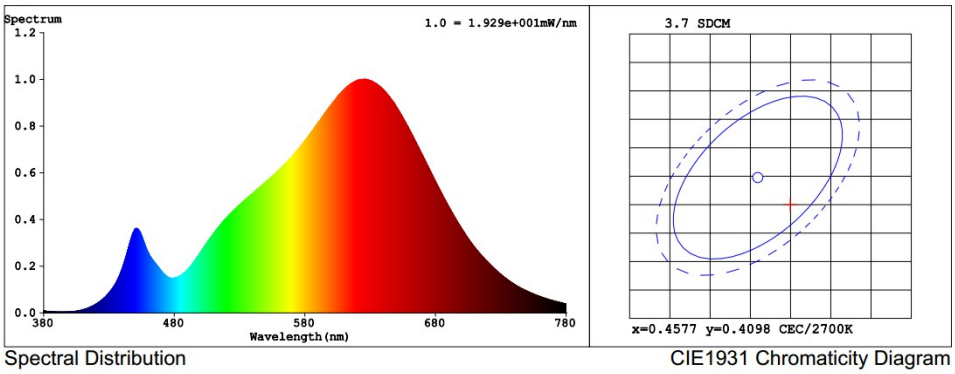
6.Adapt dimmer

number	Brand	Power	Model
14#	LEVITON	——	LEVITON 6631-LA 600W
30#	CTL	——	CTL DM600-12-3 600W
32#	AH	——	AH SDM/600/WHTTE 600W
33#	LEVITON	——	LEVITON LIGHT ALMOND NO.6672 600W

34#	LEVITON	——	LEVITON 603-6631-A 600W
36#	LEVITON	——	LEVITON 6631-A 600W
38#	LUTRON	——	LUTRON DV-603PH-WH 600W
76#	LUTRON	——	LUTRON MACL-153M-WH

7.Light Distribution data / LED's Spectrum wave form

Spectrum



Spectral Distribution CIE1931 Chromaticity Diagram

Switching time	>30,000

stress condition ：2mins ON / 2mins OFF

Lifespan(L70) at 25deg at 25 degrees L70 Life: 25,000 hours

8. Model Numbers

SCBR2010PK27K, SCBR2010PK3K, L9-BR20D-7W

Material name	Specifications	mmon usa	cation number
	LSD-PAR38WPN-13W 120V 01 R (2018)	1	
Board assembly	LED LSD-A14A1D-15 01 (2018)	1	
circuit board	LSD-A14A1D-15 CC/T=1.6mm	1	
FET	05N30G SOT-23 Taping	1	Q1
ntegrated circuit	BP8519C SOT23-5 Taping	1	U1
Patch Diode	Rectifier A7 SOD-123FL Taping	1	D3
Patch Diode	Fast recovery ES1G SMA	1	D1
Patch Diode	Fast Recovery ES1JL SOD-123 Taping	1	D2
ctifier bridge rea	MB6J	1	DB1
Patch resistance	Chip Resistance 0805 1/8W 2.2KΩ ±1% Taping	1	R4
Patch resistance	Chip Resistors 0805 1/8W 240KΩ ±1% Taping	1	R7
Patch resistance	Chip Resistors 0805 1/8W 5.1KΩ Taping	1	R9
Patch resistance	Chip Resistance 0805 1/8W 51KΩ ±1% Taping	1	R8
Patch resistance	贴片电阻 1206 1/4W 180KΩ Taping	2	R1，R2
Patch resistance	Chip Resistors 1206 1/4W 24Ω ±1% Taping	1	R3
Patch resistance	Chip Resistors 1206 1/4W 27Ω Taping	1	R3A
Patch resistance	Chip Resistance 0603 1/10W 1.0KΩ Taping	1	R6
Patch resistance	Chip Resistance 0603 1/10W 120KΩ Taping	1	R5
Chip capacitors	X7R 16V 100nF 0603 ±10%	1	C4
Chip capacitors	X7R 16V 1000nF 0603 ±10%	1	C3
Terminals	GF G05SFR-10.05 Male end (temporary)	4	+,-,B,G
MT Red Rubber (	SMT Red Rubber (200 g/piece) (R)	0.008529	
electrolysis	2.2μF/200V 130°C 2000h 5*9 Pin Length = 3.5mm	1	C5
electrolysis	60V 130°C 2000h Φ10*14 Pin Length = 3.5mm Specified Trans	1	C1
electrolysis	150μF/10V 130°C 2000h 6.3*9 Pin = 3.5mm	1	C6
capacitance	CL11 2.2nF/250V K-Class 120°C P=5.0 Pin Length=3.5	1	C2
capacitance	47nF/250V Class K 105°C P=7.5 Lead Length=3.5 (Specified Ma	1	C0
inductance	H-shaped inductor 6*8 3.3mH Φ0.11*1 2P pin length = 3.5mm	1	L2
Fuse	RF10 10Ω J 1W Taping	1	F1
power cable	05°C/300V single strand 75mm One side stripping 3.6mm One s	1	L
power cable	24#-UL1569-Red 105°C/300V 610m Single Unit	0.075	
power cable	05°C/300V Single strand 66mm One side stripping 3.6mm One	1	N
power cable	24#-UL1569-Black 105°C/300V 610m Single Strand	0.066	
Varistors	07D271 Class K P=5.0mm Pin Length=3.5mm	1	VR1
transformer	LSD-PC40-EE8.3L 2.5A2 single group	1	L1
sensor	-MRD-LSD02P Radar Module Bent Pins Internal Length L=3.5m	1	J1
Flux	HJ618A Lead-Free Solder (R)	0.4045	
Tin wire	Sn _0.7Cu Φ1.0mm (R)	0.00248	

Pure tin	Sn99.9（Ni）	0.4118	
lectronic compo	LSD-PAR38Y-17 13W 30SS D103D105 热2 120V 01 R (2018)	1	
circuit board	LSD-PAR38Y-17 Aluminum Base Plate/T=1.0 Hot 2	1	
ntegrated circuit	SY59103Z SO8E 编带	1	U1
Patch resistance	Chip Resistance 0805 1/8W 5.6Ω ±1% Taping	1	R5B
Patch resistance	Chip Resistance 0805 1/8W 8.2Ω ±1% Taping	1	R5A
Patch resistance	Chip Resistor 1206 1/4W 180KΩ Taping	1	R4
Patch resistance	Chip Resistance 0603 1/10W 470KΩ ±1% Taping	1	R7
Chip capacitors	X7R 16V 1000nF 0603 ±10%	1	C5
Chip capacitors	X7R 16V 220nF 0603 ±10%	1	C6
Chip capacitors	X7R 25V 1000nF 0603 ±10%	1	C3
Chip capacitors	X7R 50V 1nF 0603 ±10%	1	C7
Chip capacitors	X7R 50V 68nF 0603 ±10%	1	C4
led	SPMWH1229AQ5SGVOSBS3/SL	8	
led	SPMWH1229AD5SGVOSBS4/SM	7	
Terminals	GTS049-P-F-020-01 Female (temporary)	4	+,-,B,G
Solder paste	Sn98.5Ag1.0Cu0.5	0.0849	
Lamp head	s Non-welded E26 H24 Aluminum nickel (Al Ni) Injection clips W	1	
Decorative ring	LD-PAR38-J-ZSH-01	1	
Plastic	PC-122A transparent origina	37.11	
lens	LD-PAR38-R-TJ-02 (temporary)	1	
Cover	LD-PAR38-J-E26-02 PBT White (Temporary)	1	
mal conductive s	Stamping Heat Spreader LD-PAR38-J-DRP-03 (Temporary)	1	
rivet	Rivets ф3.25*5.2	1	
elf-tapping screw	Φ2.5*10 cross flat head tail hardened (temporary)	2	
Silicone rubber	JTX-5195 Transparent Neutral Silicone Adhesive (Temporary)	1	
Thermal Grease	UB585-1 160g/piece	0.5	