



SPECIFICATION

Product	<u>60W PAR38 Bulb/Spotlight</u>
Part No.	<u>S-PAR38-060#####</u>
Description	<u>PAR38 Spotlight/Active Fan cooling</u>
Version Date	<u>Jun. 2016 (Since 2012)</u>



60W-PAR38 Spotlight

60W-PAR38 spotlight is a compact, anti-glare LED light source, can radiate emphasis light beam like halogen lamp or incandescent lamp dose, it is a ideal lighting solution for Exhibition, Jewelry, Clothing, Furniture, Food and Hotel etc, particularly good at accent lighting and public lighting demands.

Using 60W PAR38 will save considerable energy and have much longer life span than traditional lights, beside, reduce maintenance costs.

As a replace lamp, 60W PAR38 is compatible with most traditional lamps and lanterns.

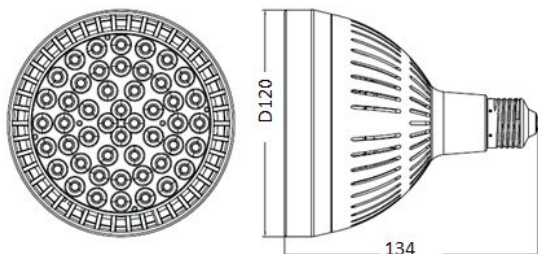
1. Product Features

- >> Low maintenance cost
- >> Energy Saving 50%-80%
- >> Beautiful design
- >> No UV, lead or mercury
- >> Active cooling technologies, protect life span with low heat, and increase power density
- >> 25°/ 45° beam angle available
- >> OSRAM high quality LED, low lumen attenuation and high CRI
- >> Compatible with most traditional halogen lamps and incandescent lamps.

2. Applications

- >> Clothing, Jewelry, Cosmetic, Exhibition
- >> Furniture, Hotel, Coffee shop, Food.
- >> Traditional PAR38 lighting areas
- >> Other accent or basic lighting demands

3. Product Parameters



Product	D (mm)	L (mm)
S-PAR38-060	120	134

Part No.	Power	CCT	Beam Angle	Lumen	CRI
S-PAR38-06030#####	60W	3000K	25° / 45°	4500-4700lm	85
S-PAR38-06040#####	60W	4000K	25° / 45°	4700-4900lm	83
S-PAR38-06050#####	60W	5000K	25° / 45°	4800-5000lm	80
S-PAR38-06065#####	60W	6500K	25° / 45°	4900-5200lm	78

60W-PAR38 Spotlight

Part No.	S-PAR38-060#####
Input Voltage	AC100-277V 50/60Hz
Input Current	0.23-0.67A
Power	60W
Power Factor	>0.92
Harmonic	<25%
LED quantity	OSRAM-S5 LED × 48pcs
Lumen Maintenance rate	>L70@30000hrs
LED Life Span	>30000H
Dimmable	No
IP Rate	IP20
Anti-electric shock rate	CLASS II
Working Environment	-20~+40°C / 0-90% (RH)
Storage Environment	-20~+75°C / 0-90% (RH)
Socket	E27/E26
N.W.	0.47Kg

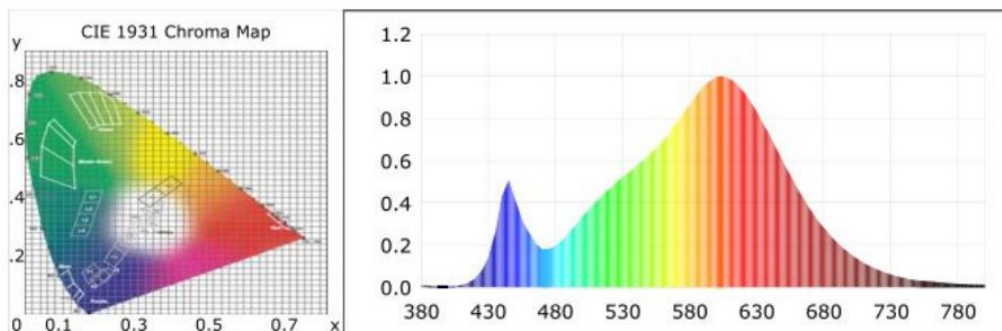
4. Light Characteristics

1. Spectral Analysis system Test Report

3042K (Warm White)

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4341$ $y=0.4034$ $u(u')=0.2491$ $v=0.3471$ $v'=0.5207$
 CCT: $T_c=3042K$ ($duv=-0.00012$) Color Ratio: R=0.244 G=0.733 B=0.023
 Peak Wavelength: 605nm Half Bandwidth: 132.0nm
 Dominant Wavelength: 583.6nm Color Purity: 0.514
 Rendering Index: Ra= 82.8
 R1 =81 R2 =90 R3 =97 R4 =82 R5 =81 R6 =88 R7 =83 R8 =60
 R9 =8 R10=77 R11=81 R12=74 R13=83 R14=98 R15=74



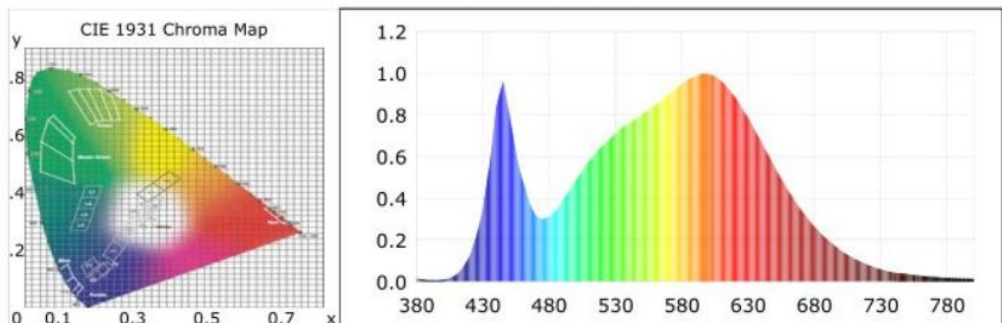
Photometric Parameters

Luminous Flux: 5093.0 lm Efficiency: 85.45 lm/W
 Radiant Power: 15.562 W

3944K (Day White / Natural White)

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3820$ $y=0.3749$ $u(u')=0.2269$ $v=0.3340$ $v'=0.5010$
 CCT: $T_c=3944K$ ($duv=-0.00132$) Color Ratio: R=0.203 G=0.765 B=0.032
 Peak Wavelength: 595nm Half Bandwidth: 153.1nm
 Dominant Wavelength: 581.0nm Color Purity: 0.272
 Rendering Index: Ra= 84.0
 R1 =83 R2 =89 R3 =93 R4 =84 R5 =83 R6 =85 R7 =86 R8 =68
 R9 =16 R10=74 R11=84 R12=72 R13=84 R14=96 R15=78



Photometric Parameters

Luminous Flux: 4446.9 lm Efficiency: 73.99 lm/W
 Radiant Power: 13.905 W

Lighting 4 Diamonds, Inc.

10922 SW 188th St, Miami, FL, 33157 USA

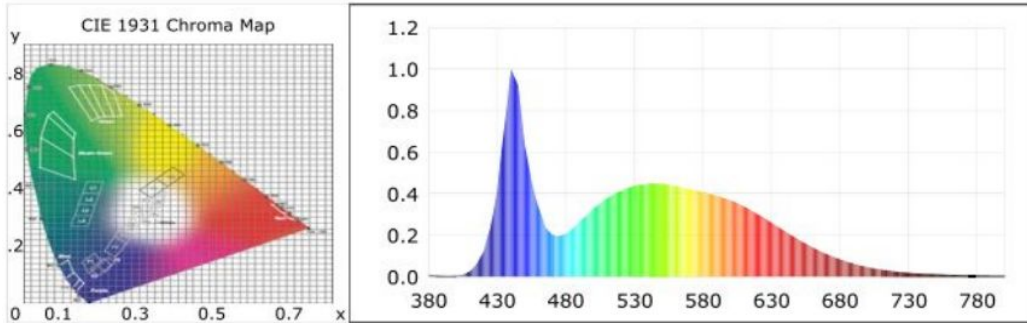
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6946K (Cool White)

CIE Colorimetric Parameters

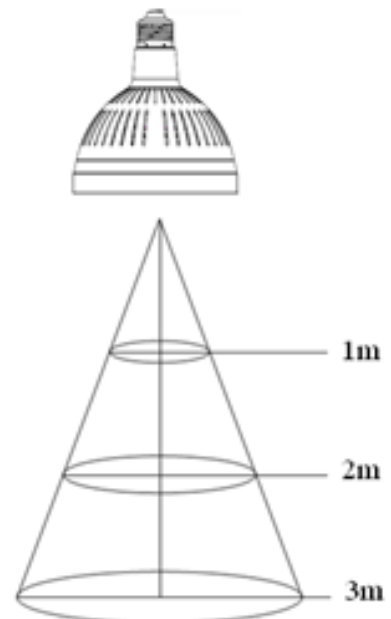
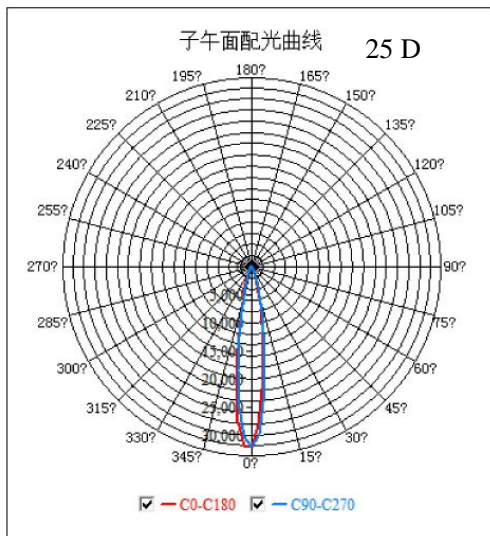
Chromaticity coordinates: $x=0.3066$ $y=0.3197$ $u(u')=0.1971$ $v=0.3082$ $v'=0.4624$
 CCT: $T_c=6946K$ ($duv=0.00152$) Color Ratio: $R=0.143$ $G=0.809$ $B=0.047$
 Peak Wavelength: 440nm Half Bandwidth: 22.5nm
 Dominant Wavelength: 485.9nm Color Purity: 0.101
 Rendering Index: $R_a=81.5$
 R1 =86 R2 =80 R3 =74 R4 =86 R5 =87 R6 =75 R7 =83 R8 =82
 R9 =34 R10=51 R11=91 R12=62 R13=82 R14=85 R15=83



Photometric Parameters

Luminous Flux: 5132.0 lm Efficiency: 85.11 lm/W
 Radiant Power: 17.340 W

2. Light Distribution



3. Illuminance diagram

Angle	25°		45°	
	Ctr LUX	Spot Size	Ctr LUX	Spot Size
Distance 1m	34000lx	40cm	13600lx	50cm
Distance 2m	9000lx	80cm	3400lx	100cm
Distance 3m	4100lx	110cm	1600lx	140cm

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5. Life span test for LED

OSRAM LED life span test

After 10,000 hrs long-term working under 85°C (Al PCB), lumen dropt 8%.

Device: OSOLON SSL (LUW CQ7P)

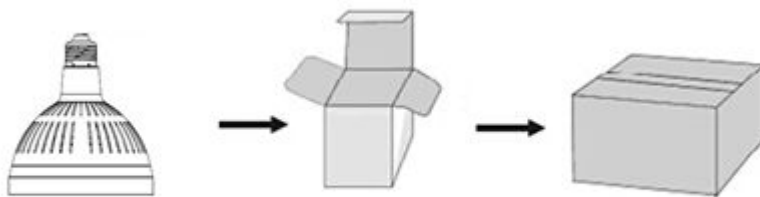
Test Condition II: T_s = 85°C, I_f = 700mA

Lumen Maintenance (I_f = 350mA) – Normalized to 24 h

	0	24	48	168	500	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000
1	100.00	100.00	99.38	98.35	98.36	97.44	96.61	94.79	94.24	92.69	92.32	91.38	91.07	90.54	90.50
2	100.09	100.00	99.18	98.27	98.27	97.26	95.89	95.16	94.43	92.69	92.51	91.57	91.26	90.73	90.69
3	100.00	100.00	99.55	98.47	98.12	97.38	96.02	95.20	94.48	92.76	92.75	91.81	91.50	90.96	90.92
4	99.91	100.00	99.72	99.26	99.26	98.34	97.14	96.41	95.85	94.38	94.47	93.51	93.20	92.65	92.61
5	98.97	100.00	99.44	98.12	98.11	97.29	95.98	95.23	94.39	93.14	93.18	92.23	91.92	91.39	91.34
6	100.00	100.00	99.73	98.78	99.22	97.90	96.44	95.06	94.88	93.69	93.61	92.66	92.35	91.81	91.77
7	99.82	100.00	99.54	98.70	98.50	97.63	96.45	95.72	94.90	93.44	93.45	92.50	92.19	91.65	91.61
8	99.91	100.00	99.63	98.77	98.92	97.80	96.61	95.79	95.06	93.80	93.70	92.75	92.44	91.90	91.85
9	99.81	100.00	99.81	99.05	99.39	99.07	97.95	97.39	96.64	95.43	95.45	94.48	94.16	93.61	93.57
10	100.09	100.00	99.64	98.53	98.33	97.46	96.20	95.38	94.47	93.12	93.03	92.09	91.78	91.24	91.20
11	99.82	100.00	99.72	99.26	99.44	97.51	96.31	95.30	95.02	93.91	94.10	93.14	92.83	92.29	92.25
12	100.00	100.00	99.72	99.17	99.54	98.24	96.94	95.92	95.45	94.34	94.53	93.57	93.25	92.71	92.67
13	99.63	100.00	99.82	99.17	100.10	98.62	97.61	96.78	96.32	95.13	95.22	94.25	93.94	93.39	93.34
14	99.73	100.00	99.73	99.08	99.26	98.08	96.82	95.89	95.16	94.06	94.25	93.29	92.98	92.43	92.39
15	100.00	100.00	99.72	99.15	99.42	98.42	97.12	96.47	95.72	94.60	94.62	93.66	93.25	92.70	92.66
16	99.91	100.00	99.73	98.27	97.82	97.26	95.97	95.15	94.33	93.14	92.86	91.92	91.61	91.07	91.03
17	99.81	100.00	99.81	99.26	99.35	98.41	97.20	96.36	95.71	94.50	94.49	93.53	93.22	92.67	92.63
18	99.73	100.00	99.73	98.82	99.11	98.26	96.88	96.24	95.51	94.32	94.31	93.35	93.04	92.49	92.45
19	99.81	100.00	99.44	98.79	98.61	97.86	96.74	95.90	95.07	93.95	93.76	92.81	92.50	91.95	91.91
20	99.72	100.00	99.81	98.88	99.07	98.50	97.38	96.64	95.98	94.86	94.86	93.90	93.58	93.03	92.99
21	99.72	100.00	99.82	98.06	98.60	97.88	96.78	96.04	95.40	94.39	94.39	93.43	93.12	92.57	92.53
22	99.91	100.00	99.64	98.47	98.30	97.55	96.10	95.29	94.47	93.20	92.74	91.80	91.49	90.95	90.91
23	100.09	100.00	99.72	98.80	98.62	97.51	96.22	95.40	94.66	93.37	93.28	92.33	92.02	91.48	91.44
24	99.72	100.00	99.91	99.51	99.85	99.08	97.97	97.33	96.69	95.67	95.68	94.71	94.39	93.84	93.80
25	99.91	100.00	99.72	98.84	98.71	97.50	96.21	95.47	94.65	93.44	93.45	92.50	92.19	91.65	91.61
median	99.91	100.00	99.72	98.80	98.92	97.86	96.61	95.79	95.06	93.91	93.76	92.81	92.50	91.95	91.91
average	99.84	100.00	99.67	98.79	98.89	97.93	96.65	95.85	95.18	93.91	93.88	92.82	92.61	92.07	92.03
std. dev.	0.22	0.00	0.17	0.40	0.59	0.55	0.64	0.71	0.73	0.84	0.83	0.92	0.91	0.91	0.91
min.	98.97	100.00	99.18	98.06	97.82	97.26	96.61	94.79	94.24	92.69	92.32	91.38	91.07	90.54	90.50
max.	100.09	100.00	99.91	99.51	100.10	99.08	97.97	97.39	96.69	95.67	95.68	94.71	94.39	93.84	93.80

6. Packaging:

1. Packaging



2. Packing Specification

N.W	Inner box Size	G.W	Carton Size	QTY/CTN	G.W/CTN
0.47Kg	123*123*145mm	0.61Kg	385x385x460mm	27pcs	16.5Kg

7. Installation:

1. Install this lamp into lighting fixture which is fit for E26/E27
2. Before replace Halogen Lamp, MHI or CFL, please remove their ballasts.

8. Attention

1. Non-waterproof, only for indoor use.
2. Do not disassemble this lamp personally, in case of any damage.
3. Fan LED lamp can not work under dead air environment, make sure the air is fl
4. Build-in cooling fan, do not use in dusty application to ensure long lifetime.
5. Power off before replace lamps.
6. Do not use LED lamp under inflammable, explosive or corrosive environment, avoiding high temperature.
7. Make sure the lamp body is cool before replacing it in case of scalding.
8. Make sure input voltage is suitable for LED lamp, or irreparable damage can be made.
9. Problematic lamp needs professional maintenance.

