

### **LIGHTING 4 DIAMONDS**

IGHTING, SHOWCASES & IN-STORE DESIGN EXPERTS



## **SPECIFICATION**

Product Name: PAR30 LED Spotlight

Product Model: L4D-PAR30-32

**Description:** PAR30 Spotlight / 32W

Version Date 2018. Jan.

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### 32W LED PAR30 Spotlight

32W-PAR30 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 32W PAR30 will save considerable energy and have much longer life span than traditional lights, beside, reduce maintenance costs.

As a replace lamp, 32W PAR30 is compatible with most traditional lamps and lantern t.

### 1. Product Features

- >> Low maintenance cost
- >> 50%~80%

Energy saving 50%~80% compare to Halogen and incandescent lamps

- >> Delicate shape design
- >> Eco-friendly, no UV and IR, no mercury or other deleterious material, environmental!
- >> Adopt active cooling technology, extend lifespan and increase the watt density
- >> Variety of beam angle several beam angle 25/45 degree for option
- >> Use original OSRAM LED, with low light failure, high CRI and high-quality illumination.
  UL Listed



## 2. Applications

- >>Clothing shop, jewelry store, cosmetic store.
- >>Furniture store, hotel, coffee shop, etc.
- >>Other applications with traditional ceiling spotlights.
- >>Other accent and basic lighting applications.

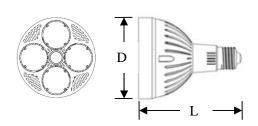
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### 3. Product Parameters



Model No.	Diameter	Height		
L4D-PAR30-32	3.75"	4.75"		

Model	Wattage	Color	Beam angle	Lumen	CRI
L4D-PAR30-32	32W	6000K	25°/45°	4200lm	90
L4D-PAR30-32	32W	4000K	25°/45°	4200lm	90
L4D-PAR30-32	32W	3000K	25°/45°	4200lm	90

#### **Data sheet**

Model	L 4D DADOO 00
Model	L4D-PAR30-32
Input Voltage	AC100V-277V 50/60Hz
Input Current	0.16A
Nominal Power	32W
Power Factor	>0.9
Harmonic Wave	<20%
Light Source Qty	OSRAM LED ×24pcs
Lumen Maintenance	>L70@60000hrs
LED Life Span	>60000H
Dimmable	No
IP Rate	IP20
Working Condition	-20∼+40℃ / 0-90% (RH)
Storge Condition	-20∼+75℃ / 0-90% (RH)
Lamp Base	E27/E26
Net Weight	0.27Kg



## 4. Light Characteristics

#### 1. Spectral Analysis system Test Report

#### CIE Colorimetric Parameters

Chromaticity coordinates: x=0.4343 y=0.4027 u(u')=0.2495 v=0.3470 v'=0.5205

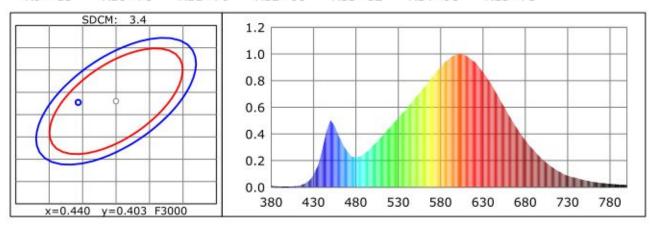
CCT: Tc=3033K (duv=-0.00018) Color Ratio: R=0.242 G=0.734 B=0.024

Peak Wavelength: 605nm Half Bandwidth: 137.6nm Dominant Wavelength: 583.7nm Color Purity: 0.513

Rendering Index: Ra= 82.3

R1 = 80 R2 = 90 R3 = 97 R4 = 79 R5 = 80 R6 = 86 R7 = 84 R8 = 62

R9 = 13 R10 = 76 R11 = 76 R12 = 68 R13 = 82 R14 = 98 R15 = 75



#### **Photometric Parameters**

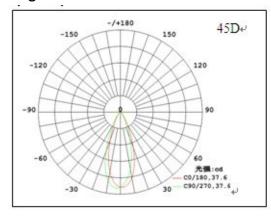
Luminous Flux: 2411.1 lm Efficiency: 66.98 lm/W

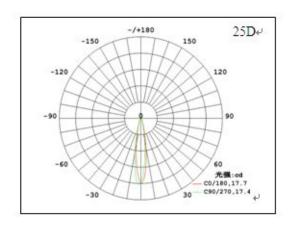
Radiant Power: 7.580 W

#### **Electric Parameters**

Voltage: U=199.1V Current: I=0.184A Power: P=36.00W Power Factor: PF=0.975

#### 2. Light Distribution





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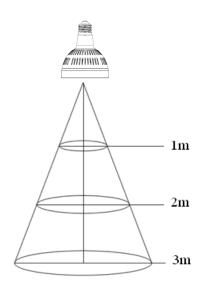
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#### 3. Illuminance Diagram

Beam	25°					
Distance	Central Lux	Spot Size				
1m	15000 lx	60cm				
2m	3700 lx	100cm				
3m	1700 lx	150cm				

Beam	45°					
Distance	Central Lux Spot Si					
1m	10000 lx	90cm				
2m	2900 lx	130cm				
3m	1300 lx	180cm				



# 5. Life span test for LED and micro fan

#### 1. OSRAM LED life span test

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

Device: OSLON SSL (LUW CQ7P)

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

Lumen Maintenance (I<sub>F</sub> = 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	99,36	98,35	98,35	97,44	95,61	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	93,60	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	96,62	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	94,52	93,56	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	92,98
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	94,55	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	91,9
verage	99,84	100,00	99,67	98,79	98,89	97,93	96,65	95,85	95,18	93,91	93,88	92,92	92,61	92,07	92,03
td. dev.	0,22	0,00	0,17	0,40	0,59	0,55	0,64	0,71	0,73	0,84	0,93	0,92	0,91	0,91	0,9
min.	98,97	100,00	99,18	98,06	97,82	97,26	95,61	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

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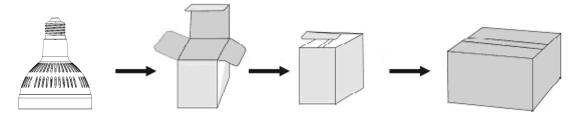
#### 2. Micro fan life span test

The life span for Fan is 27943 hours under condition of working temperature 80°.

Model NO.		HA60151V4-0	00C-999	Test	Condition		Test Result				
0	Speed	2,500	RPM	Input voltage			Faile	Failed Q`ty 5		5	
Spec.	Current	0.052	AMP	Temperature			Life			15,223	
Sample tested 50 Pcs		Orientation Vertical Exp		Expectancy	MTTF (hours) 27,943		27,943				
Test hours/Each 15,120 Hours			Running	ning In Free Air							
	Failu	re Definition		Test Result , (Inclu	ding Time 1	o Failure,	Datum , St	atistics	etc)		
. No fur	nction.			Accu.F/Q	TTF(Hrs)	UUT	Accu.F/R	R Finding			
. RPM	under 15% o	of original		1	8,064	49	2.00%	Spe	eed under 1	5%	
3. Currer	nt over 15%	of original		2	10,416	48	4.00%	Spe	eed under 1	5%	
. Noise	over 3dB(A)	of original		3	12,264	47	6.00%	Speed under 15%			
				4	13,608	46	8.00%	Speed under 15%			
ife Expecto this fan i	tancy Test Repo is only for refere	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ort) that relates				2000 000 00		1115 CAN	NAME OF THE OWNER	
		ling to the equati to obtain releva		Accelerate	Factor;	AF = 1.5	(Testing)	Гетр Оре	rating Temp	.V10	
Shape pa	arameter;β	3.1	318	Temp. Range	30℃	40°C	50°C	60°C	70°C		
Characte	ristic parame	ter; θ 31,	231 hrs	AF (Multiple)	5.06	3.38	2.25	1.50	1.00		
MTTF =	$\theta x \Gamma(1 + \frac{1}{\beta})$	27,	943 hrs	MTTF (hours)	141,461	94,308	62,872	41,915	27,943		
L10 = θ	$x(0.10536)^{\frac{1}{\beta}}$	15,	223 hrs	L10 (hours)	77,066	51,378	34,252	22,835	15,223		
Approved by:			Checked by:	ony- co	5:4		Tested by:	-0	ellio		

## 6. Packaging:

### 1. Package Drawing

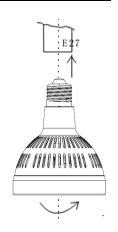


### 2. Packing Specification

Net weight	Unit package size	Gross weight	CTN size	Qty/CTN	Weight/CTN
0.306Kg	100*100*135mm	0.375Kg	525*420*290mm	40pcs	15.5Kg

## 7. Installation:

- 1. Install this lamp into lanterns which is fit for E26/E27
- 2. Once replacing CDM-R /MHL, please remove the ballast.



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#### 8. Attention

- 1. Non-waterproof, only for indoor use.
- 2. Do not disassemble this lamp personally, in case of any damage.
- 3. LED lamp can not work under dead air environment, make sure air is flowing.
- 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 the shell of lamp cool before replacing it to avoid scalding.
- 8. Make sure input voltage is suitable for LED lamp, or irreparable damage can be made.
- 9. Problematic lamp needs professional maintenance.