

A wide-angle photograph of a retail store interior, likely a home goods or kitchenware department. The store is brightly lit, with various shelves and displays. In the foreground, there are displays of Easter-themed items, including boxes of chocolate and small figurines. To the right, there are shelves of kitchenware, including plates, bowls, and mugs. A wooden table with a white tablecloth is set up in the center, displaying more kitchenware. In the background, there are more shelves and a sign that says "MARKS & SPENCER". A large white box with the Philips logo and "LED PAR30L" text is overlaid on the left side of the image. A circular LED logo is in the top right corner.

PHILIPS

LED PAR30L

Technical Application Guide

Philips LED PAR30L

3000lm(32W)

PHILIPS 220V PAR30L integrates a leading COB LED light source and a compact high efficiency driver into a traditional CDM Par30 form-factor. Additionally, the lamp features an AirFlux technology to ensure a long operating life.



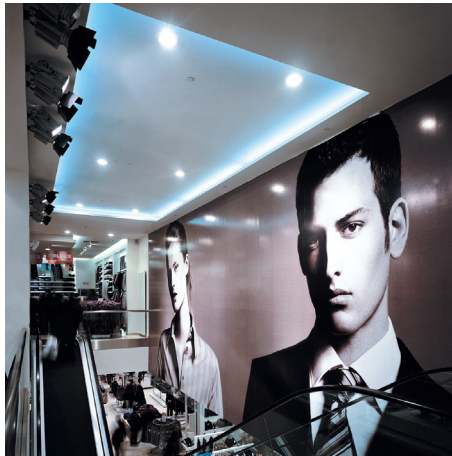
www.philips.com/ledinnovation

54%
Energy cost
saving



Design highlights

- Up to 54% energy savings compared to standard halogen and incandescent spot lamps
- Long design lifetime of PAR30L 3000lm: 25,000 hours (B50, L70)
- Safe design with over temperature protection (OTP)
- 15 and 30 degrees beam spread
- Emits virtually no heat and will not fade colors
- 3 CCT selections: 3000K, 4000K and 5700K
- Discharges virtually no UV/IR light
- Environmental friendly, RoHS compliant, contains no Mercury or other hazardous substances



Application areas

PHILIPS 220V PAR30L lamp is suitably designed for spot and general lighting applications in hospitality and retail industries. Unlike the conventional halogen Philips LED ensuring minimum maintenance cost in shops, hotels, restaurants and cafes.

Application notes

- Limited to applications in indoor and some semi-protected environments
- Not intended for use with emergency exit fixtures or emergency lights
- For use in fixtures that can structurally support a lamp weighing 0.88 lbs (0.40 kg)

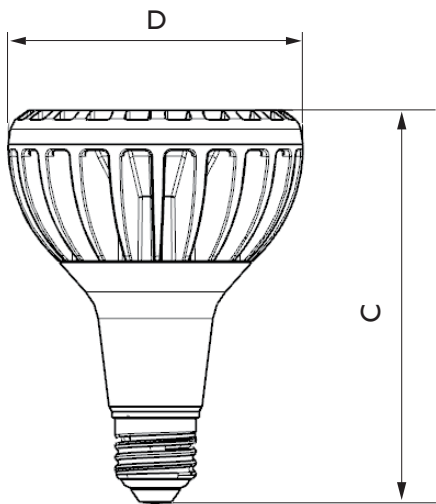
* http://www.usa.lighting.philips.com/connect/tools_literature/compatibility.wpd

Technical Specifications

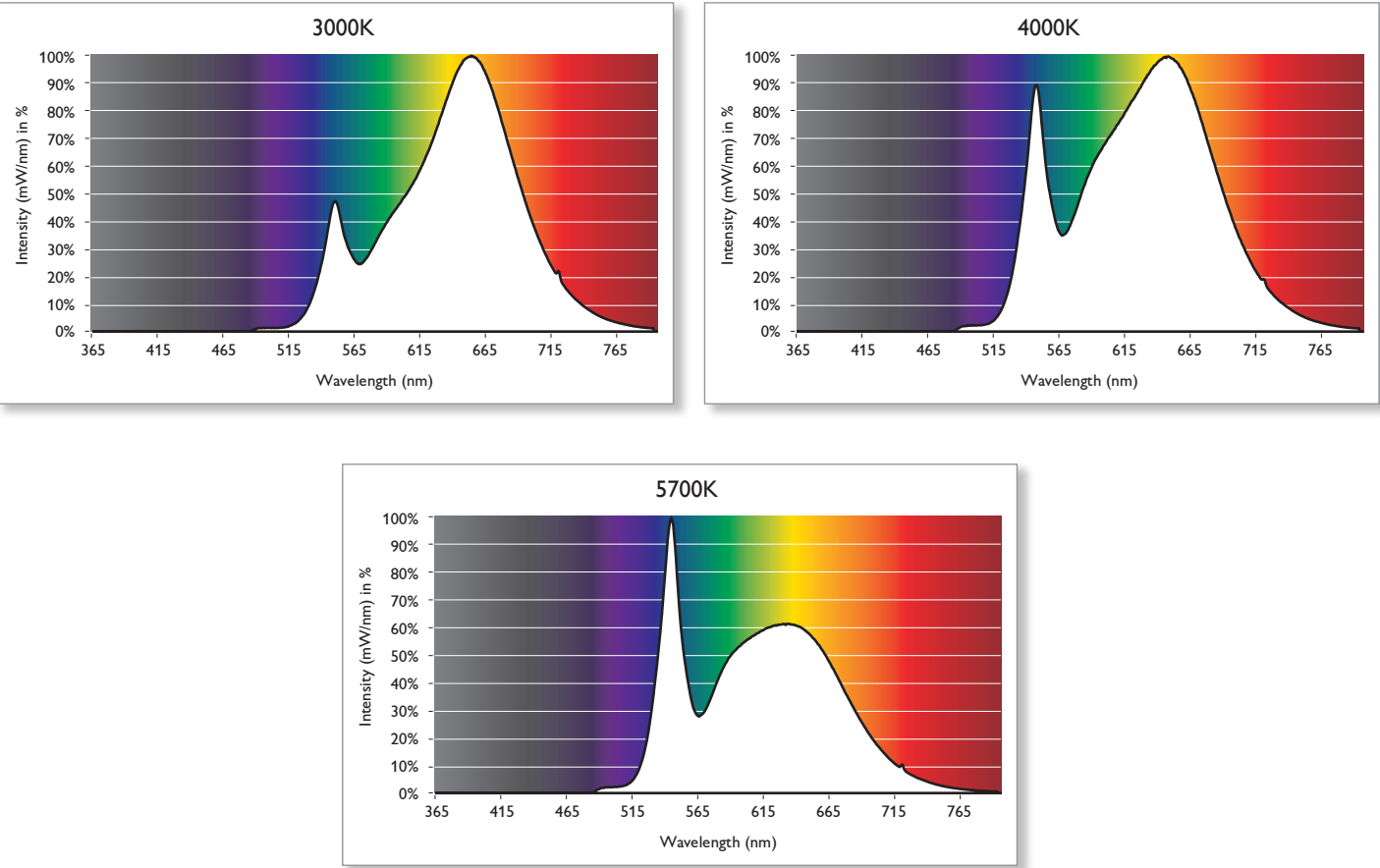
12 NC	Product type	Voltage	Wattage	Base	Lamp	Color	Lumen	Approx.	Beam	Lifetime	CRI	Dimmable
						Shape	Temp.	Output	MBCP	Angle		
						K	lm	Cd	°	Hours		
929001202608	MasterLED PAR30L 32W 15D 3000K SO	220	32	E27	PAR30L	3000	3000	30000	15	25000	80	No
929001202708	MasterLED PAR30L 32W 15D 4000K SO	220	32	E27	PAR30L	4000	3000	30000	15	25000	80	No
929001202808	MasterLED PAR30L 32W 15D 5700K SO	220	32	E27	PAR30L	5700	3000	30000	15	25000	80	No
929001202908	MasterLED PAR30L 32W 30D 3000K SO	220	32	E27	PAR30L	3000	3000	8000	30	25000	80	No
929001203008	MasterLED PAR30L 32W 30D 4000K SO	220	32	E27	PAR30L	4000	3000	8000	30	25000	80	No
929001203108	MasterLED PAR30L 32W 30D 5700K SO	220	32	E27	PAR30L	5700	3000	8000	30	25000	80	No

Fixture compatibility

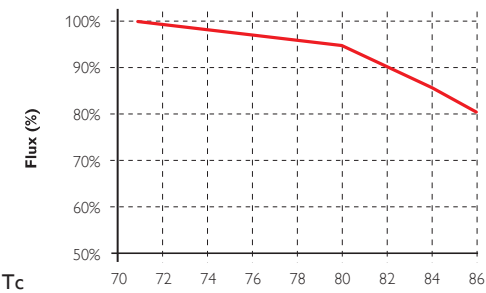
Type	C max.	D max.
	Overall Length	Diameter
	(mm)	(mm)
PAR30L 32W	128	95



Spectral Power Distribution



Temperature



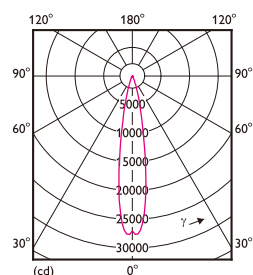
Photometric Diagrams

MasterLED PAR30L 32W 15D 3000K SO

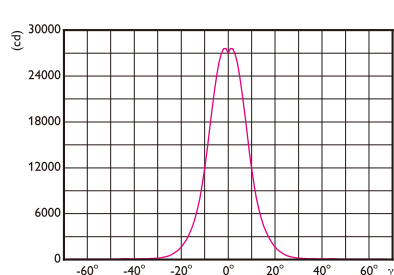
1 x 3000 lm

Light output ratio	1.00	VBA	2 x 15°	I _{max}	26900 cd
Service upward	0.00	BS (1/2 I _{max})	2 x 10°	K5	
Service downward	1.00	VBA (1/2 E ₀)	2 x 10°		

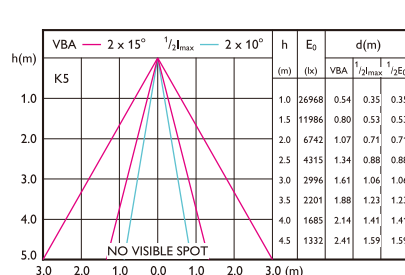
Polar intensity diagram



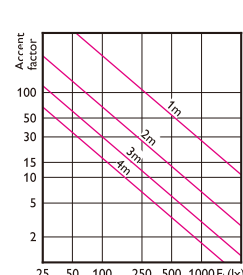
Cartesian intensity diagram



Beam diagram



Visual impact diagram

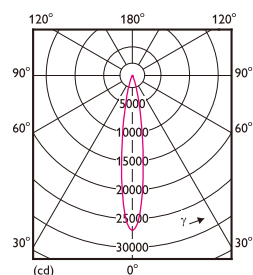


MasterLED PAR30L 32W 15D 4000K SO

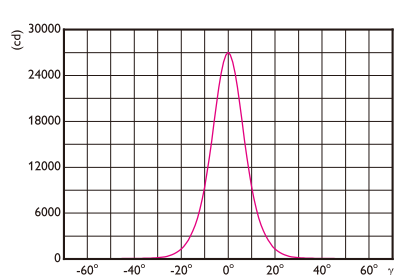
1 x 3000 lm

Light output ratio	1.00	VBA	2 x 15°	I _{max}	27100 cd
Service upward	0.00	BS (1/2 I _{max})	2 x 8°	K5	
Service downward	1.00	VBA (1/2 E ₀)	2 x 8°		

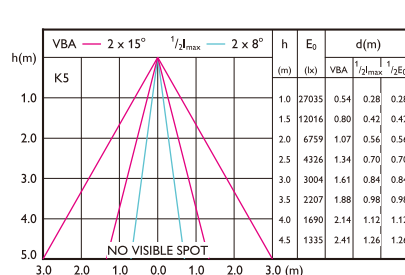
Polar intensity diagram



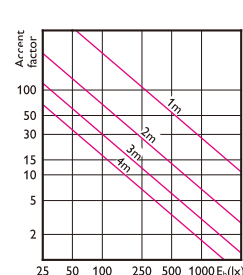
Cartesian intensity diagram



Beam diagram



Visual impact diagram

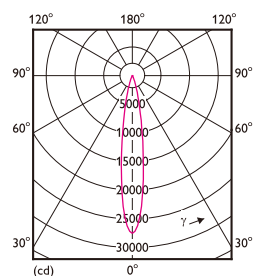


MasterLED PAR30L 32W 15D 5700K SO

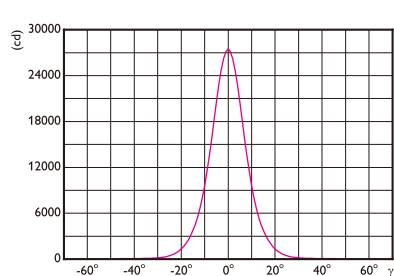
1 x 3000 lm

Light output ratio	1.00	VBA	2 x 15°	I _{max}	27500 cd
Service upward	0.00	BS (1/2 I _{max})	2 x 8°	K5	
Service downward	1.00	VBA (1/2 E ₀)	2 x 8°		

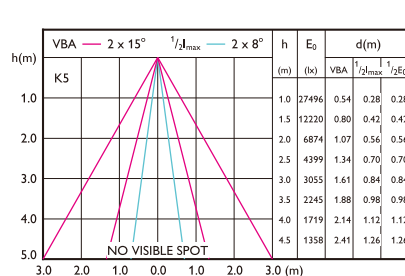
Polar intensity diagram



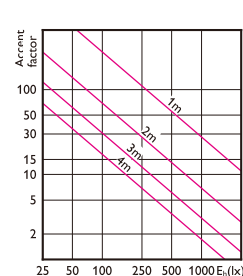
Cartesian intensity diagram



Beam diagram



Visual impact diagram

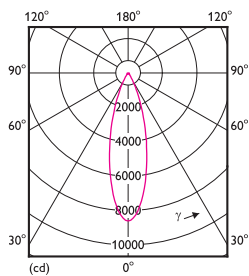


MasterLED PAR30L 32W 30D 3000K SO

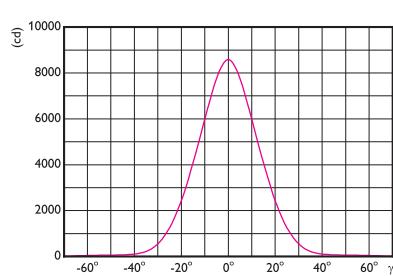
1 x 3000 lm

Light output ratio	1.00	VBA	$2 \times 30^\circ$	I_{max}	8598 cd
Service upward	0.00	BS ($\frac{1}{2} I_{max}$)	$2 \times 15^\circ$	K5	
Service downward	1.00	VBA ($\frac{1}{2} E_0$)	$2 \times 14^\circ$		

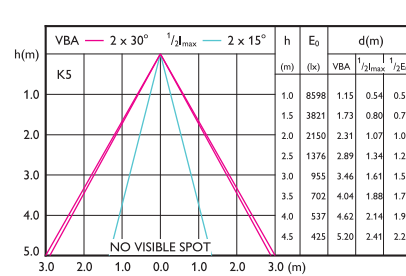
Polar intensity diagram



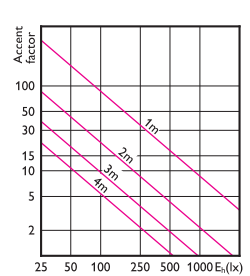
Cartesian intensity diagram



Beam diagram



Visual impact diagram

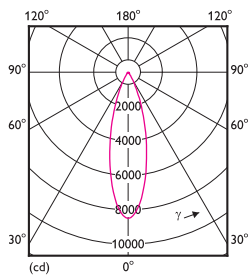


MasterLED PAR30L 32W 30D 4000K SO

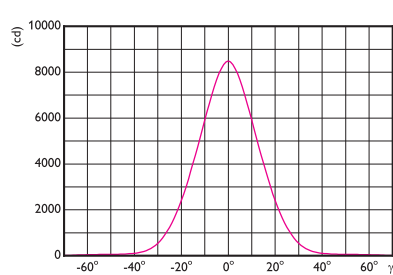
1 x 3000 lm

Light output ratio	1.00	VBA	$2 \times 30^\circ$	I_{max}	8489 cd
Service upward	0.00	BS ($\frac{1}{2} I_{max}$)	$2 \times 15^\circ$	K5	
Service downward	1.00	VBA ($\frac{1}{2} E_0$)	$2 \times 14^\circ$		

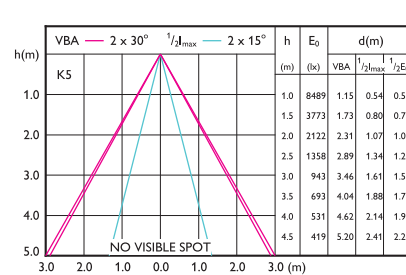
Polar intensity diagram



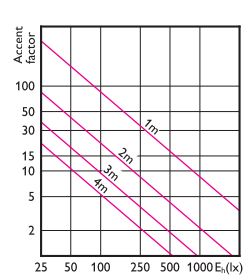
Cartesian intensity diagram



Beam diagram



Visual impact diagram

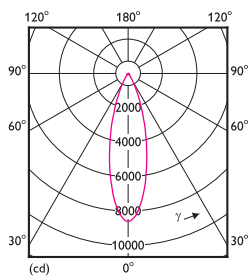


MasterLED PAR30L 32W 30D 5700K SO

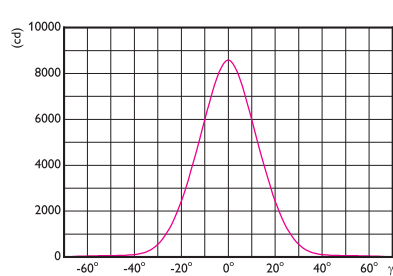
1 x 3000 lm

Light output ratio	1.00	VBA	$2 \times 30^\circ$	I_{max}	8698 cd
Service upward	0.00	BS ($\frac{1}{2} I_{max}$)	$2 \times 15^\circ$	K5	
Service downward	1.00	VBA ($\frac{1}{2} E_0$)	$2 \times 14^\circ$		

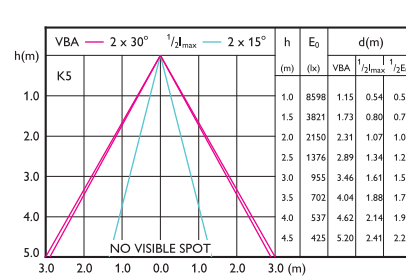
Polar intensity diagram



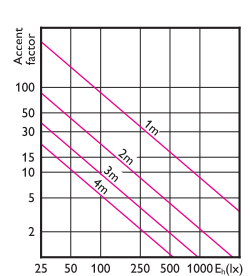
Cartesian intensity diagram



Beam diagram

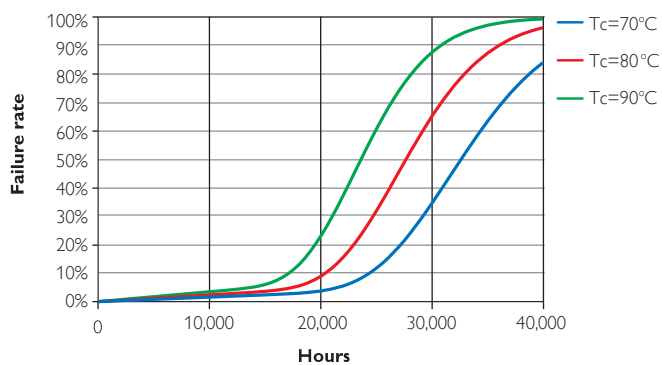


Visual impact diagram



Lifetime and sustainability

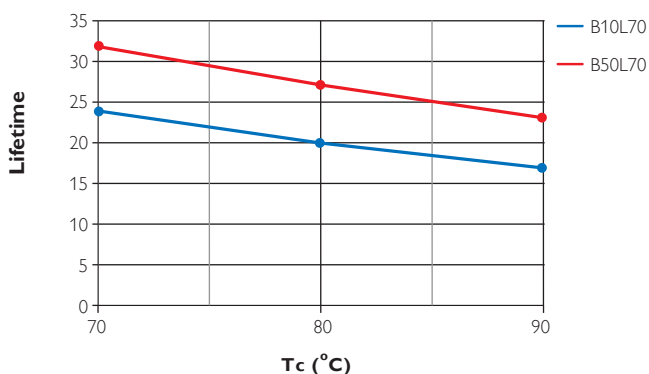
Failure Rate Curve of PAR30L 32W



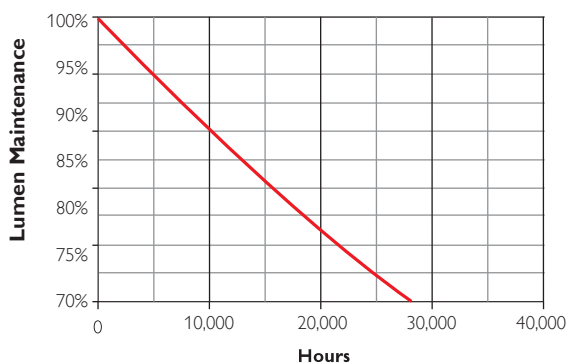
PHILIPS 220V PAR30L 3000lm lamp has a lifetime of 25,000 hours at $T_c = 70^\circ\text{C}$, defined as the number of hours when 50% of a large group of identical lamps drop below 70% of its initial lumens.

Lifetime estimation based on the application environment condition: please refer to the T_c for lifetime forecast.

Lifetime Vs T_c



Lifetime and Lumen Maintenance



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