

Technical Application Guide for PHILIPS LED Lamps

PHILIPS 120V SlimStyle 8-40W/10.5-60W 2700K/5000K Dimmable LED Bulb







PHILIPS 120V SlimStyle 8-40W/10.5-60W 2700K/5000K Dimmable LED Bulb integrates leading LED light source and compact high efficiency driver into a A-shape form-factor. Not only does it employ hi-tech IC solution to ensure the dimming system control, it also delivers a light intensity and quality which meets the Energy Star standard of 40W & 60W bulb.

As a replacement for the most commonly used incandescent model, PHILIPS 120V SlimStyle 8-40W/10.5-60W 2700K/5000K Dimmable LED Bulb is ideal for wide applications of general lighting, and industrial OEM equipment lighting in open luminaries.

Design Highlights

- About 80% energy saving
- Long lifetime of 25,000 hours (L70, B50)
- Form-factor is designed as a direct retrofit into A19 fixtures
- Dimmable with recommended dimmers
- CCT 2700K & 5000K offered
- No UV and Cool Beam (no IR)
- Environmental friendly, no mercury or any other hazardous substances
- RoHS compliant

Application areas

PHILIPS 120V SlimStyle 8-40W/10.5-60W 2700K/5000K Dimmable LED Bulb is suitably designed for general lighting applications in hospitality and retail industries.

Unlike the traditional 40W & 60W incandescent bulbs, PHILIPS 120V SlimStyle 8-40W/10.5-60W 2700K/5000K Dimmable LED Bulb offers 80% energy saving and a longer lifetime of 25,000hours (equivalent to 5.7 years if lit 12hrs a day), especially ideal for 24/7 applications to ensure minimum maintenance cost and maximum energy saving in hotels, restaurants, cafes and shops, especially suitable for various applications in the public areas such as:

- Corridors / Stairway / Washroom
- Lobby / Reception areas
- Hotel rooms / Bars

Application notes

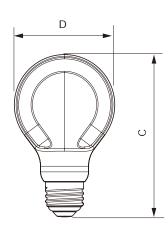
- Operating temperature range is between -20°C and 45°C ambient in free air, Tc max =85°C (60W) and 75°C (40W) for rated life. (See Lifetime + Sustainability Curves) Storage temperature range is between -40°C and 65°C, humidity range is between 10% and 90%
- Suitable to apply in damp indoor environments and open fixtures with E26 lamp-holder that offer sufficient space
- Dimmable with most of leading and trailing edge dimmers in NAM market (refer to the recommended dimmer list on the last page)
- · Not intended for use with emergency light fixtures or exit lights
- For use in fixtures that can structurally support a lamp weighing 0.138 pound
- Maximum 40pcs of this lamp can be loaded on one switch
- When mix load this lamp with other LED lamps without dimmer, please ensure total number of the lamps less than 40pcs.

Technical Specifications

Product type	Voltage	Power	Base	Power	Flux	Beam Angle	сст	Lifetime	CRI	Dimmable
	(V)	(₩)		Factor	(lm)	(°)	(K)	(hrs)		
PHILIPS 120V SlimStyle 8-40W 2700K Dimmable LED Bulb	120	8	E26	>0.85	450	300	2700	25,000	80	Yes
PHILIPS 120V SlimStyle 7-40W 5000K Dimmable LED Bulb	120	7	E26	>0.85	450	300	5000	25,000	80	Yes
PHILIPS 120V SlimStyle 10.5-60W 2700K Dimmable LED Bulb	120	10.5	E26	>0.85	800	300	2700	25,000	80	Yes
PHILIPS 120V SlimStyle 10.5-60W 5000K Dimmable LED Bulb	120	10.5	E26	>0.85	800	300	5000	25,000	80	Yes

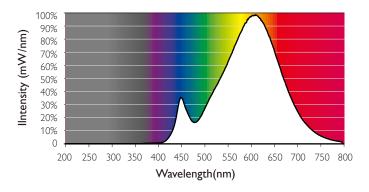
Fixture Compatibility

Туре	C Max. AOL (mm)	D Max. Diameter (mm)	Weight (g)	Weight (pound)
PHILIPS 120V SlimStyle 8-40W/10.5-60W 2700K/5000K Dimmable LED Bulb	111.6	69	62.6	0.138

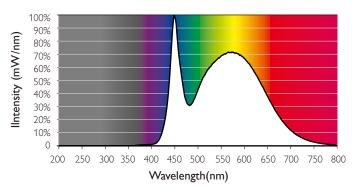


Spectral Power Distribution

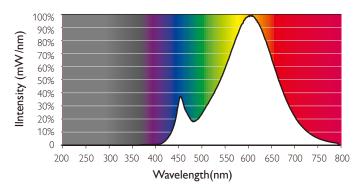
Spectral of 120V VisionLED 8-40W 2700K Dimmable



Spectral of 120V VisionLED 7-40W 5000K Dimmable



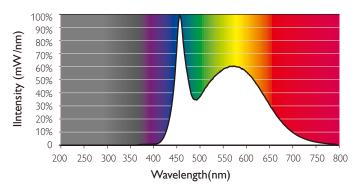




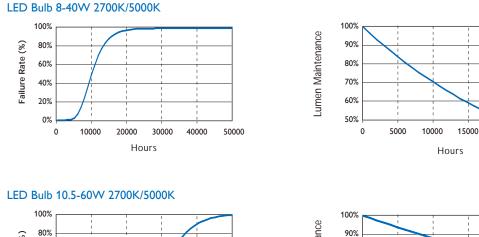
Spectral of 120V VisionLED 10.5-60W 5000K Dimmable

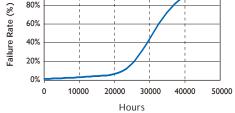
20000

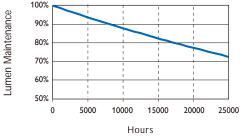
25000



Temperature







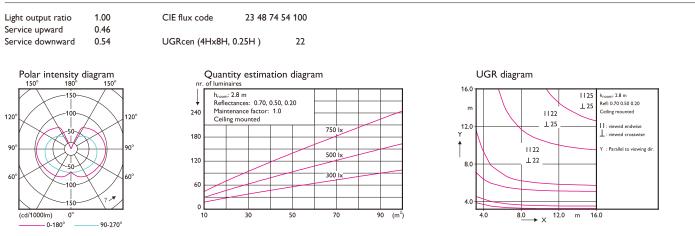
PHILIPS 120V SlimStyle 8-40W/10.5-60W 2700K/5000K Dimmable LED Bulb is designed for operation in all A19 lighting installations in open fixtures, 10mm free air space is needed around the lamp housing to ensure long lifetime.



60W 2700K = T_{c Max 85} °C 60W 5000K = T_{c Max 85} °C 40W 2700K = T_{c Max 75} °C 40W 5000K = T_{c Max 75} °C

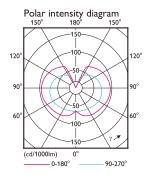
Photometric Diagrams

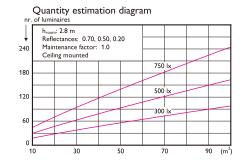
120V SlimStyle 8-40W 2700K Dimmable LED Bulb

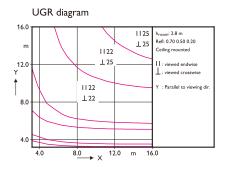


120V SlimStyle 8-40W 5000K Dimmable LED Bulb

Light output ratio	1.00	CIE flux code	23 48 74 54 1	00
Service upward	0.46			
Service downward	0.54	UGRcen (4Hx8H, 0.2	5H) :	22

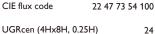


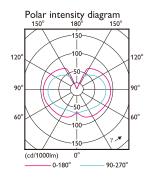


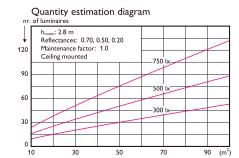


120V SlimStyle 10.5-60W 2700K Dimmable LED Bulb

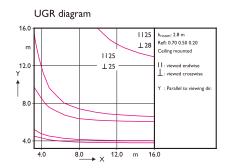








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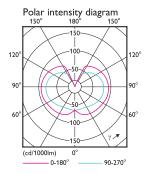


1 x 800 lm

1 × 450 lm

120V SlimStyle 10.5-60W 5000K Dimmable LED Bulb

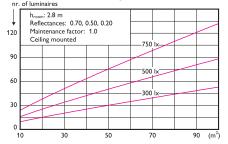
Light output ratio	1.00	CIE flux code	22
Service upward	0.46		
Service downward	0.54	UGRcen (4Hx8H, 0	.25H)

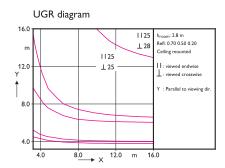




22 47 73 54 100

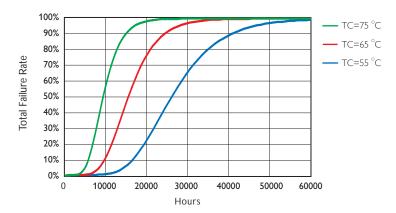
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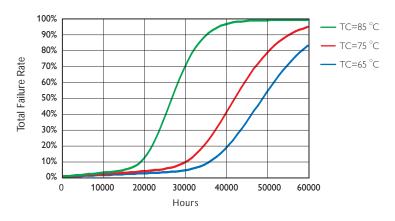


Lifetime + Sustainability

Failure Rate Curve of SlimStyle 8-40W 2700K/5000K



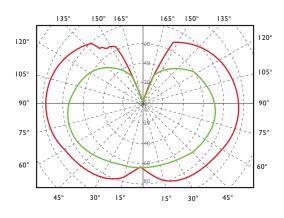
Failure Rate Curve of SlimStyle 10.5-60W 2700K/5000K



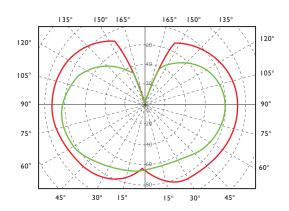
- PHILIPS 120V SlimStyle 8-40W/10.5-60W 2700K/5000K Dimmable LED Bulb has a lifetime of 25,000 hours, defined as the number of hours when 50% of a large group of identical lamps below 70% of its initial lumens.
- Lifetime estimation based on the application environment condition: please refer to the Tc for lifetime forecast.

Polar Diagram Comparison

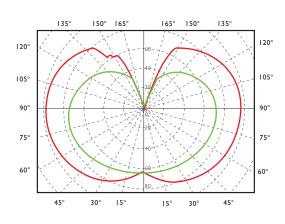
40W 2700K Dimmable



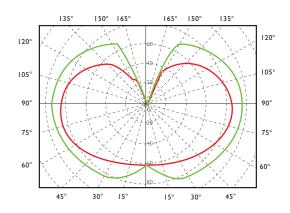
60W 2700K Dimmable



40W 5000K Dimmable



60W 5000K Dimmable



Lighting Facts Label

Light Output (Lumens) Watts	450
Lumens per Watt (Efficacy)	6 56
Color Accuracy Class Rendering Index (CRI)	80
Light Color Consider Line Insurance (CCT) 270	00 (Warm White)
Alleren Mitcheller 271504 20004 41004 41000	Daviget K EXCOM
M maaks are according to KDHALM PEODOL Approx Postconator, Fouring of Joint Blanc Lynning: The U.S. So million have below on the ada.	er bortest he die ('bernisal and gastraat af Erwegs (DCE) verfie



Light Output (Lumens)	45
Watts Lumens per Watt (Efficad	
coments per main (crincae	.91 0-
Color Accuracy Class Residence (CRU)	8
Light Color Constant Car Inspection (CCT)	5000 (Daylight)
Viero Wile Bright White	Davlayet
2150A 3000A	400x 400
All matching on according to 40,000,110,755,0000 Physics and the Control of Social States Lighting: The control test tests and test file.	

Light Outpu Watts	ut (Lumens)			800
No. of Concession, Name	r Watt (Effica	cy)		10.5
Color Accu	racy where (CMI)	-	121	80
Light Color Consume Color IN	rgenige (CT)	2700 (Warm W	hite)
View Write	Bright Mitche	41005	Daylight	10004
	ng in 16 (hoji, 136, 75-) (hoji 7 Junio (hoji), Lagrange, Th			



VINUED AT lighting facts 800 10.5 76 Light Output (Lumens) Watts Lumens per Watt (Efficacy)



Dimming Performance

GAIA 60W 2700K Dimmable Bulb

	Dimmer info								Res	ults			
		- "			. .			lamp	quanti	ty 1-8 I	amps		
NO.	Brand	Type #	Load Type	Load	Region	1	2	3	4	5	6	7	8
1	Leviton	RRD-6NA	RC	600W	NAM								
2	Leviton	6681	R	600W	NAM								
3	Leviton	6613-PL	RL	600W	NAM								
4	Leviton	6615-P	RC	300	NAM								
5	Leviton	IPI 06	R	600W	NAM								
6	Lutron	SLV-600P	RL	450W	NAM								
7	Lutron	DV-600P	R	600W	NAM								
8	Lutron	DVCL-153P	RL	600W	NAM								
9	Lutron	DVELV-300P	RC	300VV	NAM								
10	Lutron	NLV-1000	RL	800W	NAM								
11	Lutron	MACL-153M	LED	600W	NAM								
12	Lutron	MRF2-6ND-120	R	600W	NAM								
13	Philips Lightolier	OS600VA	RL	600VA	NAM								
14	lutron	SCL-153P	R	600W	NAM								
15	Leviton	6674	RL	600W	NAM								
16	lightolier	V600VAU	RL	600W	NAM								
17	watt stopper	DCD267-IV	RCL	600W	NAM								
18	Lutron	QSGR-3P	R	25-2000W	NAM								
19	Philips Lightolier	ZP600VA	RL	600VA	NAM								

GAIA 60W 5000K Dimmable Bulb

	Dimmer info								Res	ults			
		- "					lamp quantity 1-8 lamps			amps			
NO.	Brand	Туре #	Load Type	Load	Region	1	2	3	4	5	6	7	8
1	Leviton	RRD-6NA	RC	600W	NAM								
2	Leviton	6681	R	600W	NAM								
3	Leviton	6613-PL	RL	600W	NAM								
4	Leviton	6615-P	RC	300₩	NAM								
5	Leviton	IPI 06	R	600W	NAM								
6	Lutron	SLV-600P	RL	450VV	NAM								
7	Lutron	DV-600P	R	600W	NAM								
8	Lutron	DVCL-153P	RL	600W	NAM								
9	Lutron	DVELV-300P	RC	300	NAM								
10	Lutron	NLV-1000	RL	800	NAM								
11	Lutron	MACL-153M	LED	600W	NAM								
12	Lutron	MRF2-6ND-120	R	600W	NAM								
13	Philips Lightolier	OS600VA	RL	600VA	NAM								
14	lutron	SCL-153P	R	600W	NAM								
15	Leviton	6674	RL	600W	NAM								
16	lightolier	V600VAU	RL	600W	NAM								
17	watt stopper	DCD267-IV	RCL	600W	NAM								
18	Lutron	QSGR-3P	R	25-2000VV	NAM								
19	Philips Lightolier	ZP600VA	RL	600VA	NAM								

WARNINGS & CAUTIONS

Suitable for use in open luminaires (fixtures). Not for use in totally enclosed luminaries.

Suitable for use in damp locations.

Risk of Electric Shock- DO NOT USE WHERE DIRECTLY EXPOSED TO WATER.

ADDED WEIGHT OF THE DEVICE MAY CAUSE INSTABILITY OF A FREE-STANDING PORTABLE LUMINAIRE.

USE ONLY WITH A PORTABLE TABLE LAMP THAT IS PROVIDED WITH A SHADE.

This device is not intended for use with emergency exit fixtures.

Before replacing, turn off power and let lamp cool to avoid electrical shock or burn..

NOTES: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation. This Class B digital apparatus complies with Canadian ICES-003.

WARRANTY STATEMENT

Limited Warranty terms are included inside lamp package.



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