

PHILIPS

LEDClassic



Technical Application Guide

Philips LEDClassic LEDbulb and LEDcandle

LED Classic with a warm white classic design that saves around 90% energy costs, offering the beautiful decorative light.

LED Classic is ideal for installation in various kinds of fixtures where people can easily enjoy the art of light. The lamps perfectly work with crystal chandeliers, wall sconces where lamps are exposed or modern fixtures with a glass Shield.

www.philips.com/masterledlamps



Design highlights



- Classic design meets the need of OEM lumi-makers
- Vintage filament design allows for decorative light
- Low power consumption
- Long-lifetime of 15,000 hours
- No UV and Cool beam (no IR)
- Environmental friendly, no Mercury or any other hazardous substances
- Low Carbon Footprint

“ Designed with **LEDClassic**”



Application Indoor

Application areas

LED Classic lamps are ideal for general and decorative lighting in the hospitality industry, as well as in home environments. Mounted in full view in chandeliers, wall sconces or modern luminaires, fit all existing fixtures with an E14 or E27 socket. Drawing upon inputs from chandelier makers and designed to enhance the aesthetic appeal of the chandelier or luminaire, not only when lit but also when not, these lamps come in a classic design with a unique, eye-catching filament design. They produce a beautiful light that delivers huge energy savings and minimizes maintenance cost.

Application notes

- Operating temperature range is between -20 °C and 40 °C ambient
- Designed for indoor application
- Not intended for use with emergency light fixtures or exit lights
- For indoor applications in open luminaires

Product features

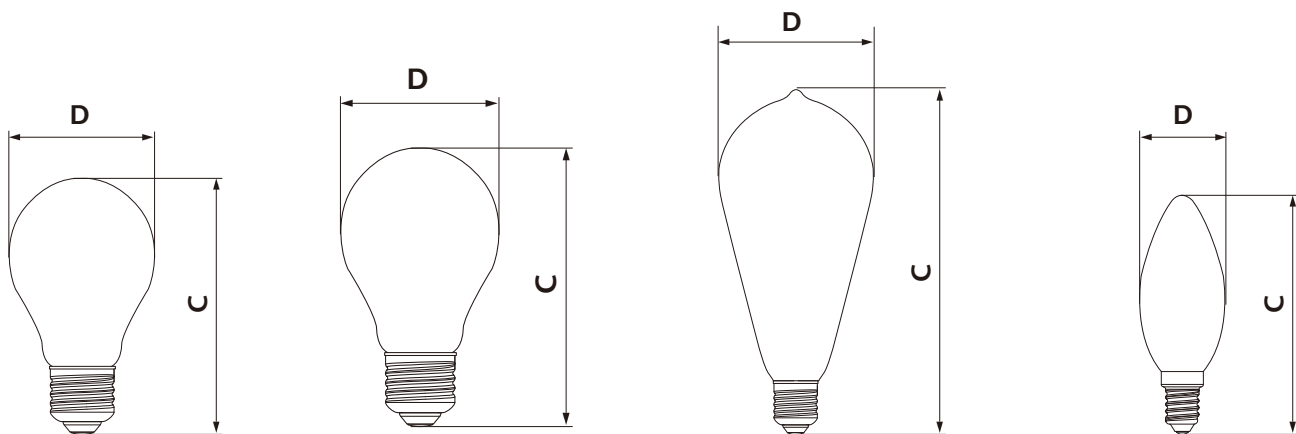
Technical Specifications (ND/D)

Product Description	Voltage (V)	Power (W)	Replaced Watt (W)	Base	CCT (K)	Lumen (Lm)	Version	Lifetime (hours)	CRI	Dim	Switch Cycle	KSA EEI Label
LED Classic 4-40W E27 WW A60 CL ND	220-240	4	40	E27	2700	470	Clear	15,000	80	No	20K	A
LED Classic 5-40W E27 WW A60 CL D	220-240	5	40	E27	2700	470	Clear	15,000	80	YES	20K	A
LED Classic 4-40W E27 WW ST64 CL ND	220-240	4	40	E27	2700	470	Clear	15,000	80	No	20K	A
LED Classic 4-40W E14 WW B35 CL ND	220-240	4	40	E14	2700	470	Clear	15,000	80	No	20K	A

Dimensions (ND/D)

Type	C typical Overall Length (mm)	D typical Diameter (mm)
LED Classic 4-40W E27 WW A60 CL ND	104	60
LED Classic 5-40W E27 WW A60 CL D	112	60
LED Classic 4-40W E27 WW ST64 CL ND	140	64
LED Classic 4-40W E14 WW B35 CL ND	97	35

ND/D



4-40W A60 E27

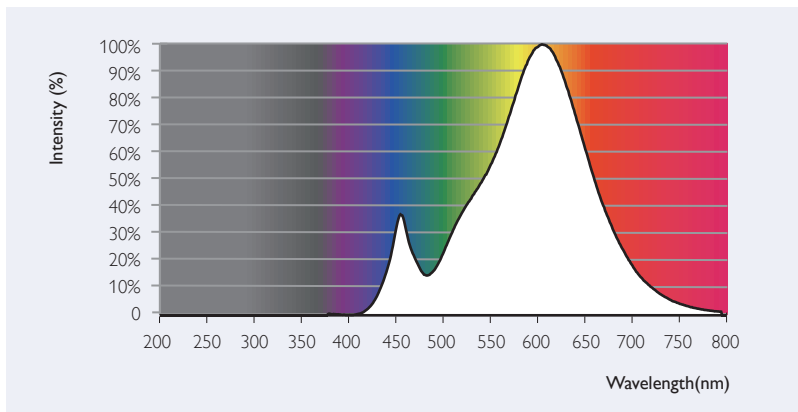
5-40W A60 E27

4-40W ST64 E27

4-40W B35 E14

Spectral Power Distribution

LEDClassic 2700K



Photometric Diagrams

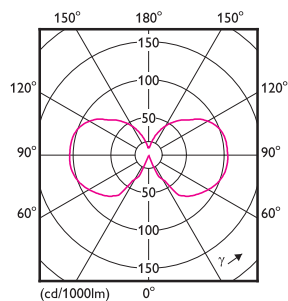


LED Classic 4-40W E27 WW A60 CL ND

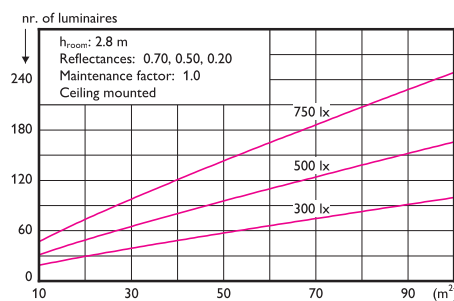
1 x 470 lm

Light output ratio	1.00	CIE flux code	11 37 67 50 100
Service upward	0.50	UGRcen (4Hx8H, 0.25H)	23
Service downward	0.50		

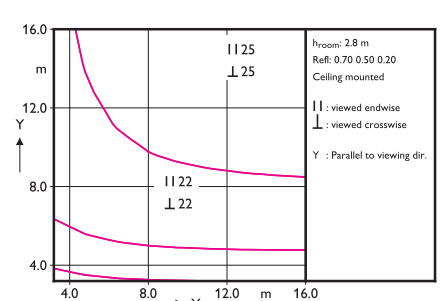
Polar intensity diagram



Quantity estimation diagram



UGR diagram

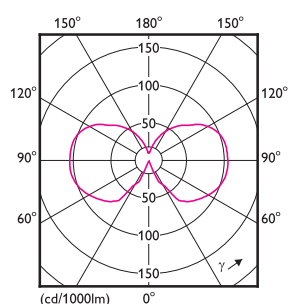


LED Classic 5-40W E27 WW A60 CL DIM

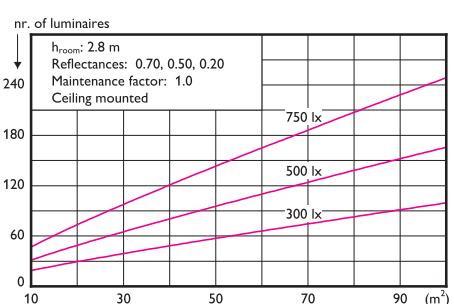
1 x 470 lm

Light output ratio	1.00	CIE flux code	11 37 67 50 100
Service upward	0.50	UGRcen (4Hx8H, 0.25H)	23
Service downward	0.50		

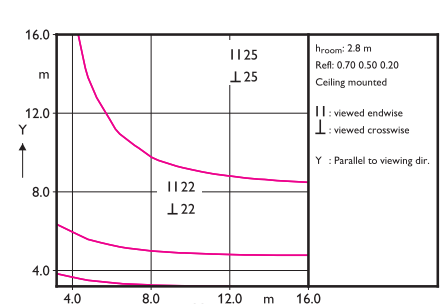
Polar intensity diagram



Quantity estimation diagram



UGR diagram



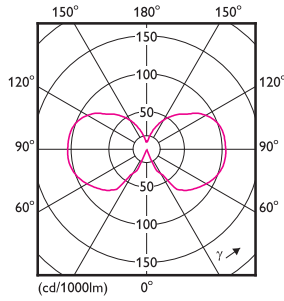


LED Classic 4-40W E27 WW ST64 CL ND

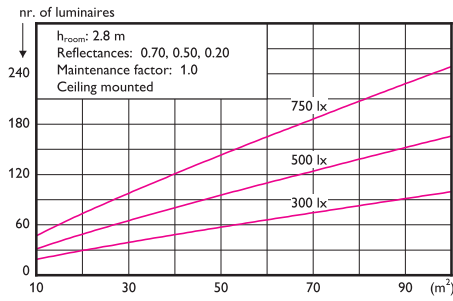
1 x 470 lm

Light output ratio	1.00	CIE flux code	11 37 67 50 100
Service upward	0.50	UGRcen (4Hx8H, 0.25H)	23
Service downward	0.50		

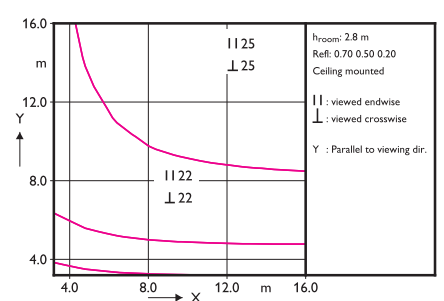
Polar intensity diagram



Quantity estimation diagram



UGR diagram

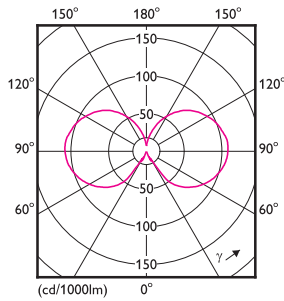


LED Classic 4-40W E14 WW B35 CL ND

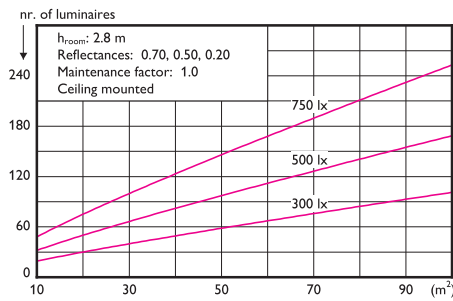
1 x 470 lm

Light output ratio	1.00	CIE flux code	8 33 65 47 100
Service upward	0.53	UGRcen (4Hx8H, 0.25H)	25
Service downward	0.47		

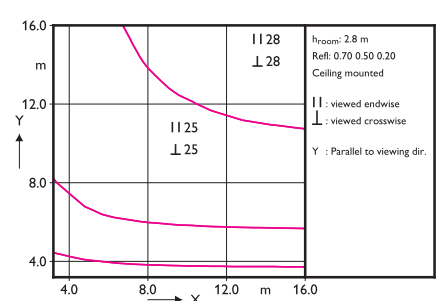
Polar intensity diagram



Quantity estimation diagram

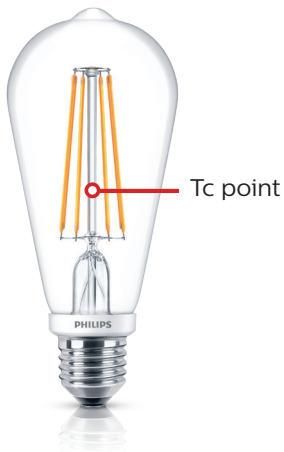


UGR diagram





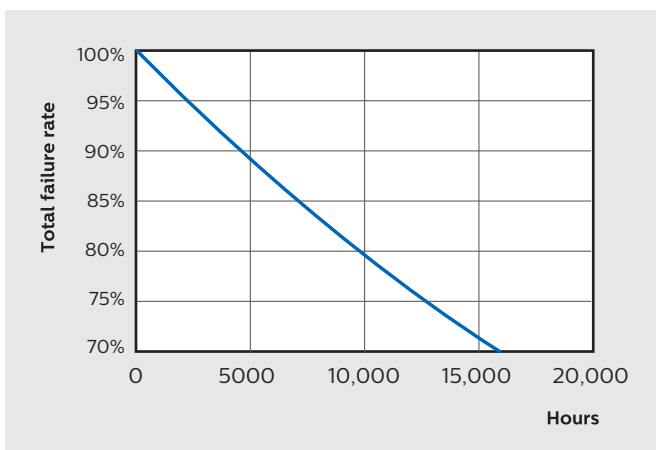
4-40W E27 A60 CL



4-40W E27 ST64 CL

Failure Rate

DIM



Philips LED Classic LEDbulb and LEDcandle has a lifetime exceeding 15,000 hours defined as (F50, L70), where:

- F50, L70, meaning 50% in total of whole population of lamps either fail without light output or lumen maintenance lower than 70% of initial value.
- Lifetime estimation based on the application environment condition: at room temperature (25 °C), free air operation, base down burning position and at rated voltage.

EMEA DIM 5W A60 bulb

Dimmer info					230V Dimmable filament 5W A60	
#	Brand	Type #	Type	Load	Overall Result	Glowing
1	Schneider (Elko)	SBD420RCRL (CCTEL13011)				
same as above	Schneider (Merten)	SBD420RCRL (MEG5138-0000)	RLC	20~420 VA	2-3	
2	Schneider	SBD315RC (ATD 315)CCT11533	RC	315W	2-3	
same as above	Schneider (Elko)	SBD315RC (315 GLE)				
same as above	Schneider	SBD315RC (SBD 315)	RC	315W		
same as above	Schneider	SBD315RC (SDD 315)				
same as above	Schneider (Merten)	SBD315RC (MEG5136-0000)				
3	Schneider (Elko)	SBD200LED (CCTEL10501) (S520512: 4-400VA)	LED (RC) (RL)	4~200 W (4~40 W)	1-3	
same as above	Schneider (Merten)	SBD200LED (MEG5134-0000)				
same as above	Feller	SBD200LED (CCTCH10601)				
4	Busch-Jaeger	2250U	R	600 W	1-3	
5	Busch-Jaeger	6513 U-102	RC	420 W	1-3	
6	Busch-Jaeger	6523U	LED	2~100 VA	1-3	
same as above	Busch-Jaeger	6524U	LED	2~100 VA		
same as above	Philips	UID8670				
7	Busch-Jaeger	2200 U-503	R	60~400 W	1-3	
8	Busch-Jaeger	2247U - 500	RL	500 W	1-3	
9	Legrand	67081	RL	40~300 W	3	
10	Legrand	774161	RL	40~400 W	3	
11	Legrand	67082	RL	40~600 W	3	
12	Legrand	67084	RLC	40~400 W	1-3	
13	Legrand	67085	RLC	40~300 W	1-3	
same as above	Legrand	78406	RLC	40~300 W		
14	Jung	225TDE	RC	20~525W	1-3	
15	Varilight	HQ3W	R	60~400W	2-3	
16	Insta (Berker)	2867 10	RC	20~360 W	1-3	
17	Insta (Berker)	2830 10	R	60~400 W	1-3	
18	Gira	2390 00 / I00	LED	7~100 W	1-3	
19	Jung	1271LEDDE	LED	3~100 W	1-3	
20	MK	K1535	R	65~450W	HEL<80%	
21	MK	K1501 WHILV	R	60~500 W	2-3	
22	Vimar	20148	RL	500 W	1-3	
23	Vimar	20162	RC	40~300W	LEL>20%	
Professional Specific: 2 Dynalite dimmers						
24	Dynalite	DDLE801			1-3	
25	Dynalite	DDMC-GRMSPLUS			1-3	
Consumer Specific: 5 Cord dimmers						
26	Ikea	WDE300F-1	R	300 W	2-3	
27	Ikea	E0902-Dim	R	25~150 W	1-3	
28	Ikea	WDE200L-1	R	200 W	1-3	
29	Ikea	EED200LRS	R	200 W	1-3	
30	Ikea	SD804	TE	150 W	1-3	



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