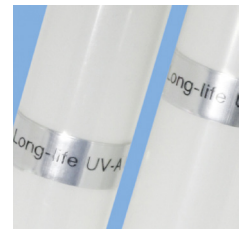
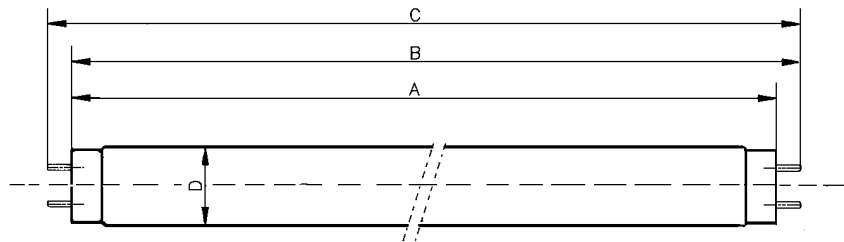


Philips LONGLIFE lamps 15W detailed spec sheet 15W longlife lamps

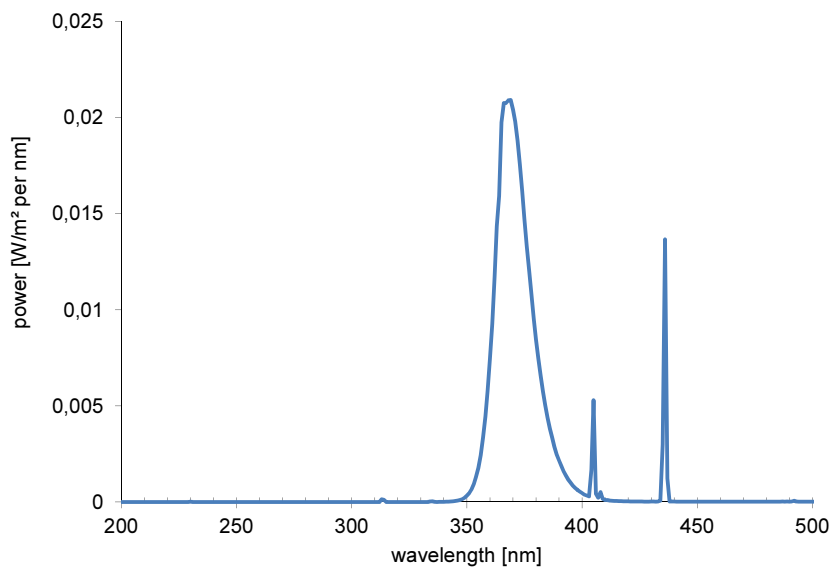


PRODUCT DESCRIPTION

Type						PHILIPS LONGLIFE LAMPS									
Article number						2.04.0312 and 2.04.0322 (SP)									
Properties						nominal						Cap			
						Lamp voltage (V)		Lamp current (mA)		Lamp diameter (mm)					
						51		335		25.85		G13			
						A max. (mm)		B min. (mm)		B max. (mm)		C max. (mm)		D max. (mm)	
Dimensions						437.4		442.1		444.5		451.6		28.00	



SPECTRAL OUTPUT CURVE



TYPE ACCEPTANCE

Attribute	Requirements	Instruction
Electrical characteristics lamp current ¹⁾ lamp voltage ¹⁾ lamp watts ¹⁾	335 mA nominal 51 V ± 4 V 15.0 W ± 5%	1) measured at 127 V in combination with a "TL"D 15W reference ballast after 100 hrs. aging characteristics.
U.V. radiation average (n ≥ 10) minimum average minimum individual	3.9 UV-A W 95% 90%	
U.V. maintenance	After Average: Min.ind.: 2000 h: ≥ 92% - 3% 85% 9000 h: ≥ 80% - 3% 80% 17.500 h: ≥ 75% - 3% 75%	Related to the 100 hrs. measurement.
RoHS Compliant	Yes	

TYPE ACCEPTANCE

Attribute	Requirements	Instruction
Life	17500 hr 75% HF preheat 9000 hr min indiv. AQL: 2.5%	
Torque test for individual lamps	≥ 6.0 Nm between cap and bulb	
Insulation test for individual lamps	500 V _{dc} resistance ³ 2.0 MW	
High tension test for individual lamps	1500 V _{ac} , no flashover or breakdown during 1 minute	



DELIVERY ACCEPTANCE (see MIL STD 105 D / ISO 2859)

Inspection of attributes:				
Sum of critical defects.		3	Not permissible	
Sum of major defects.		2	AQL = 1.0%	
Sum of minor defects.		1	AQL = 2.5%	
Classification of defects:		1	2	3
1	<i>Packing/Labeling/Marking</i>			
1.1	Packing, packing label or lamp marking not according to instructions.		X	
1.2	Alien brand on packing label or in lamp marking.			X
1.3	Packing label or lamp marking not according to instructions.		X	
1.4	Unmarked, illegible or erasable marking.		X	
2	<i>Glass</i>			
2.1	Broken lamp.		X	
2.2	Leaky lamps or cracks which may cause leakers.		X	
2.3	Glass defects. Important optical defects.		X	
2.4	Glass defects. Small optical defects.	X		
3	<i>Coating</i>			
3.1	Powder-off in coating (hole $\varnothing \geq 15$ mm or equal area).		X	
3.2	Powder-off in coating (hole $\varnothing < 15$ mm or equal area).	X		
3.3	Uneven coating (strips, thin, irregular or coarse).		X	
3.4	Uncoated ends (> 2 mm).	X		
3.5	Uncoated part of the bulb, length ≥ 15 mm.		X	
4	<i>Caps</i>			
4.1	Loose caps (before or after I.E.C. torque test).		X	
4.2	Loose pin (before or after I.E.C. torque test).		X	
4.3	Gauge defects (gauge does not fit on lampend).		X	
4.4	Damaged cap or pin (small damages or superfluous cement/tin)	X		
4.5	Damaged cap or pin (bigger but still fits in gauge)		X	
4.6	Soldering, welding or pinching defects: not.		X	
4.7	Long leadwire: so long that it may cause short circuit to cap.			X
4.8	Long leadwire: shorter.	X		

DELIVERY ACCEPTANCE (see MIL STD 105 D / ISO 2859)

Inspection of attributes			
Sum of critical defects.	3	Not permissible	
Sum of major defects.	2	AQL = 1.0%	
Sum of minor defects.	1	AQL = 2.5%	

Classification of defects		1	2	3
5	<i>Safety</i>			
5.1	Insulation resistance too low (< 1.50 MΩ at 500Vdc)			×
5.2	Flashover or breakdown in high voltage test (1500 Vac between pins and cap shell).			×
5.3	Long lead wire (see above).			×
5.4	Lamp length too short (IEC "B" - 0.2 mm).			×
6	<i>Function test</i>			
6.1	Ignition time too long at test voltage.		×	
6.2	No ignition at nominal voltage within 30 sec.		×	
6.3	Obvious improper functioning (after 10 min ageing).		×	
7	<i>Miscellaneous</i>			
7.1	Wrong dimensions (gauge defects).		×	
7.2	Loose part(s) in the lamp that may damage the coating.		×	
7.3	Short circuit between lead wires.			×
7.4	All appearance defects not mentioned above which do not influence proper functioning of the lamp (i.e. dirt, unclear marking, small damages, mercury stains etc...).	×		



DELIVERY ACCEPTANCE

Inspection by variables	AQL%	n	c
Lamp current	2.5		
Lamp voltage	2.5		
Lamp watts	2.5		
Min. individual UV-A output.	4		
Min. individual maintenance after 2000 h.	6.5		
Min. individual maintenance after 5000 h. average lives below 8000 h.	6.5		
	N.P.		

N.P. = not permissible.



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