ALCOCHEM HYGIENE

PHILIPS

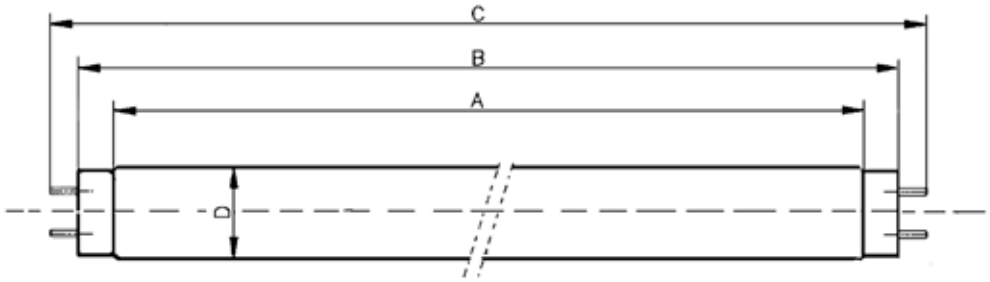
Machine and Product Documentation Lighting

QUALITY SPECIFICATION FOR FLUORESCENT LAMPS - **PHILIPS LONGLIFE LAMPS 15W**

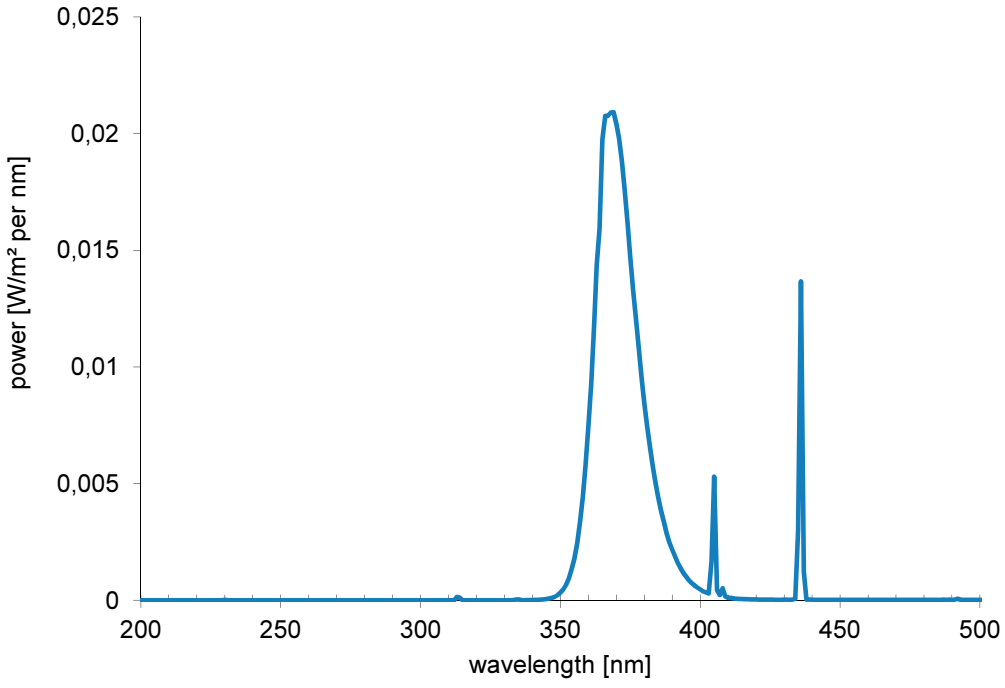
## PRODUCT DESCRIPTION

| | | | | |
|---|---|---|---|---|
| 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

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## TYPE ACCEPTANCE

| Attribute | Requirements | Instruction |
|---|---|---|
| Electrical characteristics<br><br>lamp current [1)]<br>lamp voltage[1)]<br>lamp watts[1)] | <br><br>335 mA nominal<br>51 V ± 4 V<br>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<br><br>average (n ≥ 10)<br>minimum average<br>minimum individual | <br><br>3.9 UV-A W<br>95%<br>90% | |
| U.V. maintenance | After Average: Min.ind.:<br>2000 h: ≥ 92% - 3% 85%<br>9000 h: ≥ 80% - 3% 80%<br>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<br><br>8000 hr min indiv. AQL: 2.5% | |
| Torque test<br>*for individual lamps* | ≥ 6.0 Nm between cap and bulb | |
| Insulation test<br>*for individual lamps* | ≥ 6.0 Nm between cap and bulb | |
| High tension test<br>*for individual lamps* | 1500 Vac, no flashover or breakdown during 1 minute | |

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**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 | Packing/Labeling/Marking | | | |
| *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 | Glass | | | |
| *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 | Coating | | | |
| *3.1* | *Powder-off in coating (hole Ø ≥ 15 mm or equal area).* | | X | |
| *3.2* | *Powder-off in coating (hole Ø < 15 mm or equal area).* | X | | |
| *3.3* | *Uneven coating ( strips, thin, irregular or coarse ).* | | X | |
| *3.4* | *Uncoated ends (> 2mm).* | X | | |
| *3.5* | *Uncoated part of the bulb, length ≥ 15 mm.* | | X | |
| 4 | Caps | | | |
| *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 | | |

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**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 | Safety | | | |
| *5.1* | *Insulation resistance too low ( < 1.50 MΩ at 500 Vdc )* | | | X |
| *5.2* | *Flashover or breakdown in high voltage test (1500 Vac between pins and cap shell).* | | | X |
| *5.3* | *Long lead wire ( see above ).* | | | X |
| *5.4* | *Lamp length too short ( IEC "B" - 0.2 mm ).* | | | X |
| 6 | Function test | | | |
| *6.1* | *Ignition time too long at test voltage.* | | X | |
| *6.2* | *No ignition at nominal voltage within 30 sec.* | | X | |
| *6.3* | *Obvious improper functioning (after 10 min ageing).* | | X | |
| 7 | Miscellaneous | | | |
| *7.1* | *Wrong dimensions (gauge defects).* | | X | |
| *7.2* | *Loose part(s) in the lamp that may damage the coating.* | | X | |
| *7.3* | *Short circuit between lead wires.* | | | X |
| *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... ).* | X | | |

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## 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. | 6.5 | | |
| average lives below 8000 h. | N.P. | | |
| | | | |
| N.P. = not permissible. | | | |

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