

LED ON

Technical Documentation

1. General Information.

Regulation (EU) 2017/1369
Article 12.5 reference

Supplier's Name or trademark (a)* :	TOP ELECTRONIC COMPONENTS S.A. 66,	a
Supplier's Address (a)* :	ALKMINIS STR. ATHENS 118 53, GREECE	a
Model Identifier (b)* :	02.001.1452	a
Type of Light Source:	LED	a

2. Technical Parameters.

Parameter	Value	Regulation (EU) 2017/1369 Article 12.5 reference	Parameter	Value	Regulation (EU) 2017/1369 Article 12.5 reference
Useful luminous flux (Φ_{use}) in lm (e.1)*	2000	d	Colour rendering index (CRI) (e.2)*	80	d
On-mode power (P_{on}) in W (e.3)*	18,0	d	Beam angle in degrees for directional light sources (DLS) (e.4)*	-	d
Peak luminous intensity in cd for directional light sources (DLS) (e.4a)*	-	d	Correlated colour temperature (CCT) in K for FL and HID light sources (e.5)*	6500K	d
Standby power (P_{sb}) in W, including when it is zero (e.6)*	0,00	d	Networked standby power (P_{net}) in W for connected light sources (CLS) (e.7)*	-	d
R9 colour rendering index value for LED and OLED light sources (e.7a)*	1	d	Survival factor for LED and OLED light sources (e.7b)*	0,90	d
Lumen maintenance factor for LED and OLED light sources (e.7c)*	0,96	d	Indicative lifetime L70B50 for LED and OLED light sources (e.7d)*	25000	d
Displacement factor ($\cos\phi_1$) for LED and OLED mains light sources (e.8)*	0,7	d	Colour consistency in MacAdam ellipse steps for LED and OLED light sources (e.9)*	6	d
Luminance-HLLS in cd/mm² only for HLLS (e.10)*	-	d	Flicker metric (PstLM) for LED and OLED light sources (e.11)*	0,3	d
Stroboscopic effect metric (SVM) for LED and OLED light sources (e.12)*	0,2	d	Excitation purity, only for CTLS, for the following colours and dominant wavelength within the given range:	-	d

			<table border="1"> <tr> <th>Colour</th> <th>Dominant wave-length range</th> </tr> <tr> <td>Blue</td> <td>440nm – 490nm</td> </tr> <tr> <td>Green</td> <td>520nm – 570nm</td> </tr> <tr> <td>Red</td> <td>610nm – 670nm</td> </tr> </table>	Colour	Dominant wave-length range	Blue	440nm – 490nm	Green	520nm – 570nm	Red	610nm – 670nm		
Colour	Dominant wave-length range												
Blue	440nm – 490nm												
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(e.13)*

3. Additional Information.

Description	Information	Regulation (EU) 2017/1369 Article 12.5 reference
The calculations performed with the parameters, including the determination of the energy efficiency class <i>(f)*</i>	$\eta_{TM} = (\Phi_{use}/P_{on}) \times F_{TM} = (2000,0/18,0) * 1,000 = 111,1$ (lm/W) → E	e
References to the harmonized standards applied or other standards used <i>(g)*</i>	LVD: EN 62560:2012+A1:2015+A11:2019 EN 62493:2015 EN 62471:2008 EMC: EN 55015:2019+A11 EN 61000-3-2:2019 EN 61000-3-3:2013+A1 EN 61547:2009 ROHS IEC 62321-4:2013, IEC 62321-5:2013 IEC 62321-6:2015, IEC 62321-7-1:2015 IEC 62321-7-2:2017, IEC 62321-8:2017 ERP: EU 2019/2020 EU 2019/2015	b
Testing conditions if not described sufficiently in point (g) <i>(h)*</i>	No additional testing conditions	f
The reference control settings, and instructions on how they can be implemented, where applicable <i>(i)*</i>		g
Instructions on how to remove lighting control parts and/or non-lighting parts, if any, or how to switch them off or minimize their power consumption during light source testing <i>(j)*</i>		g
Specific precautions that shall be taken when the model is assembled, installed, maintained or tested <i>(k)*</i>	Turned power off while installation, don't touch the lamp while it has been lighting for more than 15 minutes.	c