

Name of supplier	KW-Commerce GmbH
Address of supplier	Jägerstr. 41 10117 Berlin Deutschland
Model Identifier	51527A
Model registered as	1024072



Katharina Zelisko, Business Unit Director

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Technical Data

General Data

useful luminous flux (Φ_{use}) in lm	176
colour rendering index (CRI)	80
on-mode power (P_{on}) in W	3.5
beam angle in degrees for directional light sources (DLS)	0
correlated colour temperature (CCT) in K	5000
standby power (P_{sb}) in W	0.2
networked standby power (P_{net}) in W for connected light sources (CLS)	NA
displacement factor ($\cos \phi_1$) for LED and OLED mains light sources	DC
colour consistency in MacAdam ellipse steps for LED and OLED light sources	6
luminance-HLLS in cd/mm ² (only for HLLS)	NA
flicker metric (P_{stLM}) for LED and OLED mains light sources	NA
stroboscopic effect metric (SVM) for LED and OLED mains light sources	NA

Excitation purity, only for CTLS, for the following colours and dominant wavelength within the given range

Blue 440 nm — 490 nm
Green 520 nm — 570 nm
Red 610 nm — 670 nm

Calculations

Energy Efficiency Class

$\eta_{TLM} = (\Phi_{use}/P_{on}) \times F_{TM}$ (lm/W)	On-mode power (P_{on}), expressed in W	3.5																
<i>Table 1</i> Energy efficiency classes of light sources	Useful luminous flux (Φ_{use})	176																
<table border="1"> <thead> <tr> <th>Energy efficiency class</th> <th>Total mains efficacy η_{TLM} (lm/W)</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>$210 \leq \eta_{TLM}$</td> </tr> <tr> <td>B</td> <td>$185 \leq \eta_{TLM} < 210$</td> </tr> <tr> <td>C</td> <td>$160 \leq \eta_{TLM} < 185$</td> </tr> <tr> <td>D</td> <td>$135 \leq \eta_{TLM} < 160$</td> </tr> <tr> <td>E</td> <td>$110 \leq \eta_{TLM} < 135$</td> </tr> <tr> <td>F</td> <td>$85 \leq \eta_{TLM} < 110$</td> </tr> <tr> <td>G</td> <td>$\eta_{TLM} < 85$</td> </tr> </tbody> </table>	Energy efficiency class	Total mains efficacy η_{TLM} (lm/W)	A	$210 \leq \eta_{TLM}$	B	$185 \leq \eta_{TLM} < 210$	C	$160 \leq \eta_{TLM} < 185$	D	$135 \leq \eta_{TLM} < 160$	E	$110 \leq \eta_{TLM} < 135$	F	$85 \leq \eta_{TLM} < 110$	G	$\eta_{TLM} < 85$	F_{TM}	0.926
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	η_{TM}	47																

$P_{on Max}$ (W)

$P_{onmax} = C \times (L + \Phi_{use}/(F \times \eta)) \times R;$	C	1.2
	L	1.5
	Useful luminous flux (Φ_{use})	176
	F	1
	R	1
	η	120

References to the harmonised standards applied or other standards used

EN 62031 EN 62471
EN 55015 EN 61547
EN 62717 EN 62612 EN 13032-4

Testing conditions if not described sufficiently in the standard

25.3°C, 65% rH
Test Voltage: 5V DC

Control settings, and instructions on how they can be implemented

Full brightness, 5V direct current

Instructions on how to remove lighting control parts and/or non-lighting parts, if any, or how to switch them off or minimise their power consumption during light source testing

This is a legacy product, not designed to allow replacing the light source. The light source encloses a lithium battery. Do not open the light source.

Specific precautions that shall be taken when the model is assembled, installed, maintained or tested

1. This light is only suitable for use in indoor, dry and enclosed areas. This product is only intended for private household use
2. Children may not play with the product. Children may not carry out cleaning and maintenance activities without supervision. This product is not a toy.
3. Before using the light, make sure that the supply voltage matches the required operating voltage for the light (5 volt direct current, 1500mA).
4. Unplug the containing product from the electric socket before installing or uninstalling the product.
5. Do not cover the lamp with any other objects. Overheating can cause fire.
6. Do not leave the light unattended while it is on.
7. Install and uninstall the containing product in accordance with the instruction given in its user manual.
8. The light source is not replaceable due to the inclusion of a lithium battery.
9. The light source is not safe to operate or connect to power, unless it is installed in the designated containing product.
10. In order to minimise the effect of battery charging on measurements done on the containing product, ensure full charge of the battery (5 hours) before starting the test.

Disposal recommendations at the end of the light source's life time (Directive 2012/19/EU)

Translations and national adaptations are included in the user manual of the item, supplied with the light source or its containing product.

The Waste Electrical and Electronic Equipment (WEEE) Directive aims to minimise the impact of electrical and electronic goods on the environment, by increasing re-use and recycling and by reducing the amount of WEEE going to landfill. The symbol on this product or its packaging signifies that this product must be disposed separately from ordinary household wastes at its end of life. Be aware that this is your responsibility to dispose of electronic equipment at recycling centers in order to conserve natural resources. Each country should have its collection centers for electrical and electronic equipment recycling.

For information about your recycling drop off area, please contact your related electrical and electronic equipment waste management authority, your local city office, or your household waste disposal service.

This light source is dimmable:

no

Light source is designed to be used in the following products. Use in other products may cause damage or risk to users.

40590.01
40590.35
40590.73
40590.91

40590.81