

# Product Information Sheet

COMMISSION DELEGATED REGULATION (EU) 2019/2015 with regard to energy labelling of light sources

**Supplier's name or trade mark:** LED-Studien

**Supplier's address:** Technische Abteilung, Mühlenweg 15, 04451 Borsdorf, DE

**Model identifier:** LK04-3a

**Type of light source:**

|                                                     |             |                                 |                            |
|-----------------------------------------------------|-------------|---------------------------------|----------------------------|
| Lighting technology used:                           | LED         | Non-directional or directional: | NDLS                       |
| Light source cap-type (or other electric interface) | solder pads |                                 |                            |
| Mains or non-mains:                                 | NMLS        | Connected light source (CLS):   | No                         |
| Colour-tuneable light source:                       | No          | Envelope:                       | -                          |
| High luminance light source:                        | No          |                                 |                            |
| Anti-glare shield:                                  | No          | Dimmable:                       | Only with specific dimmers |

## Product parameters

| Parameter | Value | Parameter | Value |
|-----------|-------|-----------|-------|
|-----------|-------|-----------|-------|

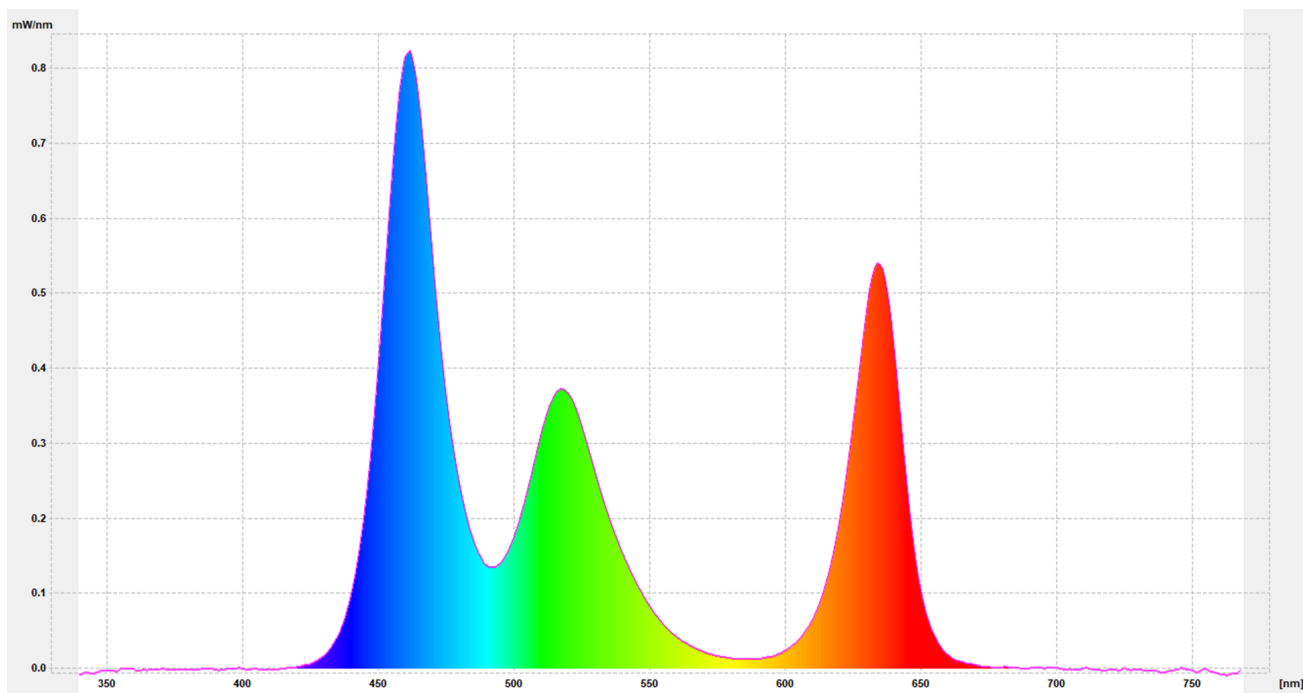
### General product parameters:

|                                                                                                                                                       |                         |                                                                                                                                                            |                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer                                                                         | 9                       | Energy efficiency class                                                                                                                                    | G                      |
| Useful luminous flux ( $\phi_{\text{use}}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°) | 623 in Wide cone (120°) | Correlated colour temperature, rounded to the nearest 100 K, or the range of correlated colour temperatures, rounded to the nearest 100 K, that can be set | 2000...20000           |
| On-mode power ( $P_{\text{on}}$ ), expressed in W                                                                                                     | 9,1                     | Standby power ( $P_{\text{sb}}$ ), expressed in W and rounded to the second decimal                                                                        | 0,00                   |
| Networked standby power ( $P_{\text{net}}$ ) for CLS, expressed in W and rounded to the second decimal                                                | -                       | Colour rendering index, rounded to the nearest integer, or the range of CRI-values that can be set                                                         | 56                     |
| Outer dimensions without separate control gear, light-                                                                                                | Height                  | Spectral power distribution in the range 250 nm to 800 nm, at full-load                                                                                    | See image in last page |
|                                                                                                                                                       | Width                   |                                                                                                                                                            |                        |
|                                                                                                                                                       | Depth                   |                                                                                                                                                            |                        |

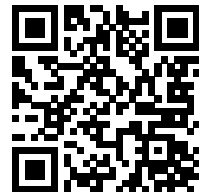
|                                                                       |      |                                    |                |  |
|-----------------------------------------------------------------------|------|------------------------------------|----------------|--|
| ing control parts and non-lighting control parts, if any (millimetre) |      |                                    |                |  |
| Claim of equivalent power <sup>(a)</sup>                              | -    | If yes, equivalent power (W)       | -              |  |
|                                                                       |      | Chromaticity coordinates (x and y) | 0,240<br>0,237 |  |
| <b>Parameters for LED and OLED light sources:</b>                     |      |                                    |                |  |
| R9 colour rendering index value                                       | 1    | Survival factor                    | 1,00           |  |
| the lumen maintenance factor                                          | 0,96 |                                    |                |  |

(a) '-': not applicable;

(b) '-': not applicable;



Model placed on the Union market from 01/09/2021



**EPREL registration number:** 950552

<https://eprel.ec.europa.eu/qr/950552>

**Supplier:** LED-Studien GmbH (Importer)

**Website:** [www.led-studien.de](http://www.led-studien.de)

**Customer care service:**

**Name:** Technische Abteilung

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