

# Product Information Sheet

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

**Supplier's name or trade mark:** ELMARK

**Supplier's address:** ELMARK INDUSTRIES SC, bul.Dobrudja 2, 9300 Dobrich Dobrich, BG

**Model identifier:** 99LED909

**Type of light source:**

|   |     |                                 |      |
|---|-----|---------------------------------|------|
| Lighting technology used:                           | LED | Non-directional or directional: | NDLS |
| Light source cap-type (or other electric interface) | E27 |                                 |      |
| Mains or non-mains:                                 | MLS | Connected light source (CLS):   | No   |
| Colour-tuneable light source:                       | No  | Envelope:                       | -    |
| High luminance light source:                        | No  |                                 |      |
| Anti-glare shield:                                  | No  | Dimmable:                       | No   |

## Product parameters

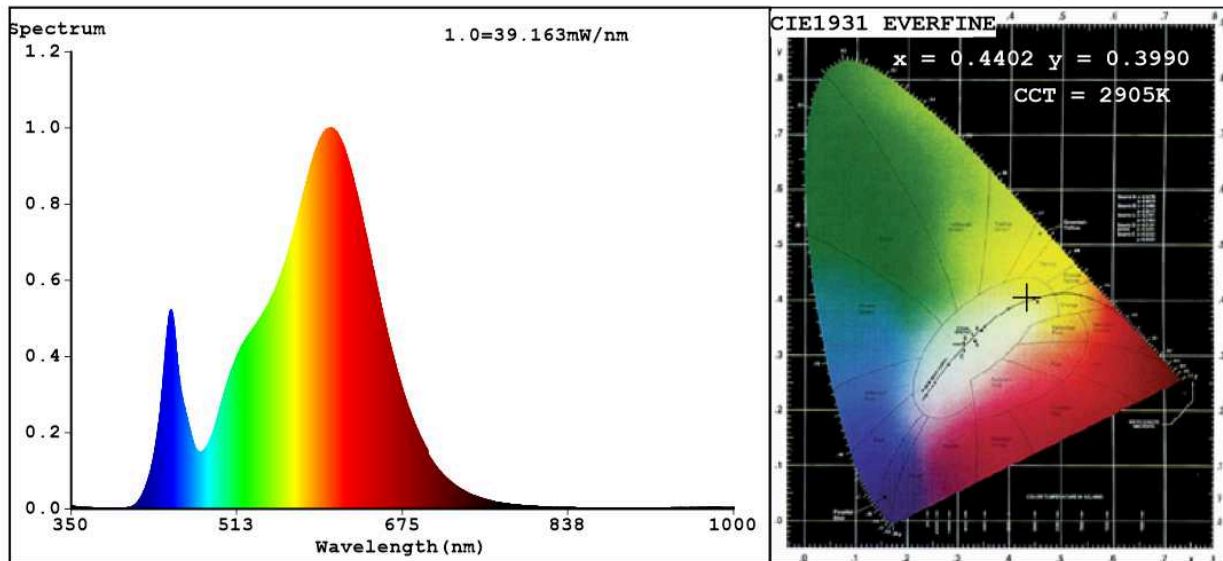
| Parameter  | Value                  | Parameter  | Value                  |
|--|------------------------|--|------------------------|
| <b>General product parameters:</b>   |                        |  |                        |
| Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer  | 20                     | Energy efficiency class  | F                      |
| Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°) | 1 800 in Sphere (360°) | 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 | 3 000                  |
| On-mode power ( $P_{on}$ ), expressed in W   | 17,0                   | Standby power ( $P_{sb}$ ), expressed in W and rounded to the second decimal   | 0,00                   |
| Networked standby power ( $P_{net}$ ) 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   | 82                     |
| Outer dimensions without   | Height                 | Spectral power distribution in the   | See image in last page |
|  | Width                  |  |                        |
|  | Depth                  |  |                        |

|   |                    |                                       |                                      |  |
|---|--------------------|---------------------------------------|--------------------------------------|--|
| separate control gear, lighting control parts and non-lighting control parts, if any (millimetre)                       |                    |                                       | range 250 nm to 800 nm, at full-load |  |
| Claim of equivalent power <sup>(a)</sup>  | Yes                | If yes, equivalent power (W)          | 110                                  |  |
|   |                    | Chromaticity coordinates (x and y)    | 0,440<br>0,399                       |  |
| <b>Parameters for LED and OLED light sources:</b>   |                    |                                       |                                      |  |
| R9 colour rendering index value   | 7                  | Survival factor                       | 0,50                                 |  |
| the lumen maintenance factor  | 0,93               |                                       |                                      |  |
| <b>Parameters for LED and OLED mains light sources:</b>   |                    |                                       |                                      |  |
| displacement factor (cos $\phi_1$ )   | 0,50               | Colour consistency in McAdam ellipses | 5                                    |  |
| Claims that an LED light source replaces a fluorescent light source without integrated ballast of a particular wattage. | Yes <sup>(b)</sup> | If yes then replacement claim (W)     | 100                                  |  |
| Flicker metric (Pst LM)   | 0,5                | Stroboscopic effect metric (SVM)      | 0,2                                  |  |

(a) : not applicable;

(b) : not applicable;

## Spectrum Test Report



### Color Parameters:

Chromaticity Coordinate:  $x=0.4402$   $y=0.3990$  /  $u'=0.2549$   $v'=0.5199$   
 $CCT=2905K$  (Duv=-0.0024) Dominant WL:Ld =584.1nm WL:Lc = --nm Purity=51.9%  
 Ratio:R=23.7% G=74.0% B=2.3%; Peak WL:Lp=604.8nm FWHM=121.7nm  
 Render Index:Ra=82.5

|        |        |        |        |        |        |               |
|--------|--------|--------|--------|--------|--------|---------------|
| R1 =81 | R2 =91 | R3 =96 | R4 =81 | R5 =82 | R6 =89 | R7 =82        |
| R8 =58 | R9 =7  | R10=79 | R11=81 | R12=76 | R13=83 | R14=99 R15=74 |

### Photo Parameters:

Flux = 1857 lm Eff. : 108.82 lm/W Fe = 5.729 W

### Electrical parameters:

V = 221.50 V I = 0.1377 A P = 17.06 W PF = 0.5592  
 WHITE:ANSI\_3000K

Status: Integral T = 28 ms Ip = 50913 (78%)

Model:LED A80  
 Tester:Atanas DAKOV  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99LED909  
 Date:2020-07-06 14:29:59  
 Humidity:65.0%  
 Remarks:6496