# 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:** 99LED936W

**Type of light source:**

| | | | |
|---|---|---|---|
| Lighting technology used: | LED | Non-directional or directional: | DLS |
| Light source cap-type (or other electric interface) | Integrated LED | | |
| 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**

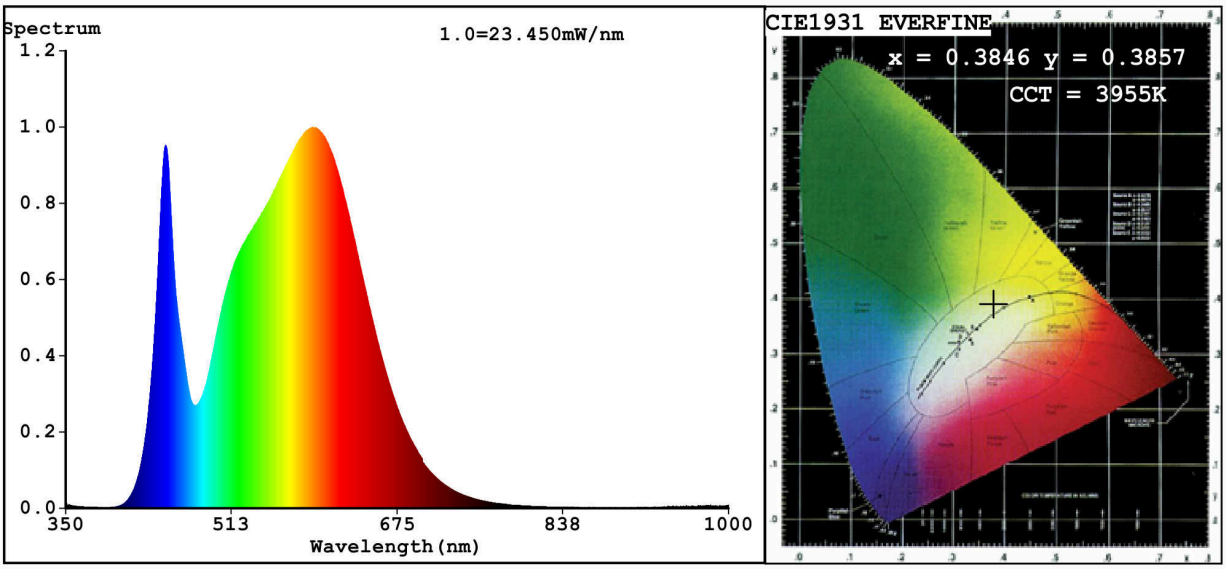
| Parameter | Value | Parameter | Value |
|---|---|---|---|
| **General product parameters:** | | | |
| Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer | 15 | Energy efficiency class | F |
| Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º) | 1 356 in Narrow cone (90°) | 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 | 4 000 |
| On-mode power ($P_{on}$), expressed in W | 15,1 | 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 | 81 |
| Outer dimensions without — Height | 93 | Spectral power distribution in the | See image in last page |
| Outer dimensions without — Width | 95 | | |
| Outer dimensions without — Depth | 95 | | |

| | | | | |
|---|---|---|---|---|
| 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[a] | | Yes | If yes, equivalent power (W) | 87 |
| | | | Chromaticity coordinates (x and y) | 0,384<br>0,385 |
| **Parameters for directional light sources:** | | | | |
| Peak luminous intensity (cd) | | 592 | Beam angle in degrees, or the range of beam angles that can be set | 38 |
| **Parameters for LED and OLED light sources:** | | | | |
| R9 colour rendering index value | | 2 | Survival factor | 0,50 |
| the lumen maintenance factor | | 1,00 | | |
| **Parameters for LED and OLED mains light sources:** | | | | |
| displacement factor (cos ϕ1) | | 0,50 | Colour consistency in McAdam ellipses | 0 |
| Claims that an LED light source replaces a fluorescent light source without integrated ballast of a particular wattage. | | Yes[b] | If yes then replacement claim (W) | 80 |
| Flicker metric (Pst LM) | | 1,0 | Stroboscopic effect metric (SVM) | 0,4 |

[a] '-' : not applicable;

[b] '-' : not applicable;

# Spectrum Test Report




## Color Parameters:

Chromaticity Coordinate:x=0.3846 y=0.3857/u'=0.2243 v'=0.5061

CCT=3955K(Duv=0.0029) Dominant WL:Ld =577.8nm WL:Lc = --nm Purity=31.2%

Ratio:R=18.1% G=78.6% B=3.4%¡¡Peak WL:Lp=592.1nm FWHM=149.1nm

Render Index:Ra=81.7

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| R1 =79 | R2 =87 | R3 =94 | R4 =81 | R5 =80 | R6 =83 | R7 =86 | |
| R8 =63 | R9 =2 | R10=70 | R11=80 | R12=63 | R13=81 | R14=97 | R15=72 |

## Photo Parameters:

Flux = 1356 lm Eff. : 89.58 lm/W Fe = 4.079 W

## Electrical parameters:

V = 219.98 V I = 0.1266 A P = 15.13 W PF = 0.5433

WHITE:ANSI_4000K

~~Status: Integral T = 42 ms Ip = 49538 (76%)~~

| | |
|---|---|
| Model:LED LAMP | Number:99LED936W |
| Tester:Atanas DAKOV | Date:2020-10-09 11:29:57 |
| Temperature:25.3Deg | Humidity:65.0% |
| Manufacturer:ELMARK | Remarks:6929 |