# 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:** 99LED968CWE

**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**

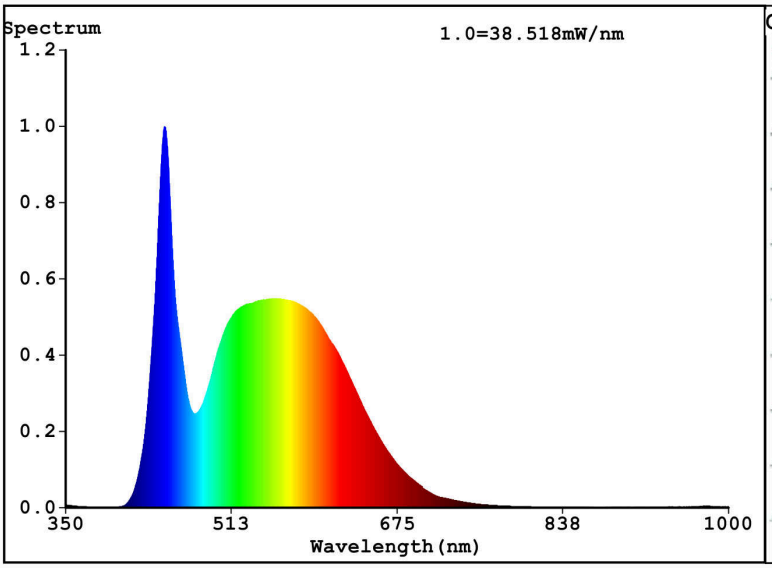
| Parameter | Value | Parameter | Value |
|---|---|---|---|
| **General product parameters:** | | | |
| Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer | 18 | Energy efficiency class | F |
| Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º) | 1 400 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 | 6 000 |
| On-mode power ($P_{on}$), expressed in W | 19,5 | 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 | 225 | Spectral power distribution in the | See image in last page |
| Outer dimensions without — Width | 205 | | |
| Outer dimensions without — Depth | 13 | | |

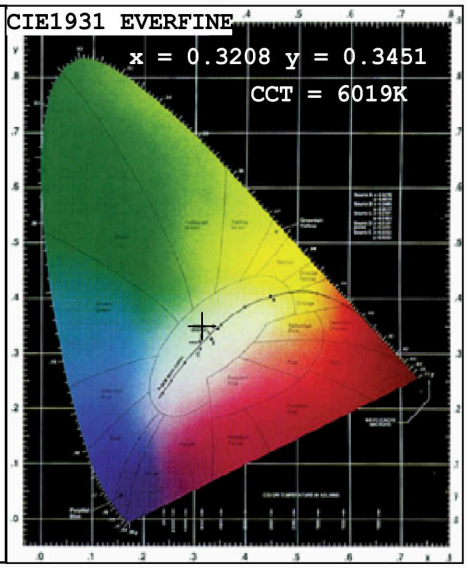
| | | | | |
|---|---|---|---|---|
| separate control gear, lighting control parts and non-lighting control parts, if any (millimetre) | | | range 250 nm to 800 nm, at full-load | |
| Claim of equivalent power[a] | | - | If yes, equivalent power (W) | - |
| | | | Chromaticity coordinates (x and y) | 0,320<br>0,344 |
| **Parameters for directional light sources:** | | | | |
| Peak luminous intensity (cd) | | 446 | Beam angle in degrees, or the range of beam angles that can be set | 120 |
| **Parameters for LED and OLED light sources:** | | | | |
| R9 colour rendering index value | | 1 | Survival factor | 0,50 |
| the lumen maintenance factor | | 0,93 | | |
| **Parameters for LED and OLED mains light sources:** | | | | |
| displacement factor (cos ϕ1) | | 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. | | -[b] | If yes then replacement claim (W) | - |
| Flicker metric (Pst LM) | | 0,0 | Stroboscopic effect metric (SVM) | 0,0 |

[a] '-' : not applicable;

[b] '-' : not applicable;

# Spectrum Test Report




## Color Parameters:

Chromaticity Coordinate:x=0.3208 y=0.3451/u'=0.1974 v'=0.4779

CCT=6019K(Duv=0.0074) Dominant WL:Ld =504.5nm Purity=3.8%

Ratio:R=13.5% G=81.5% B=5.0%¡¡Peak WL:Lp=446.9nm FWHM=23.1nm

Render Index:Ra=81.6

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| R1 =79 | R2 =85 | R3 =90 | R4 =83 | R5 =81 | R6 =81 | R7 =87 | |
| R8 =68 | R9 =0 | R10=65 | R11=82 | R12=63 | R13=80 | R14=95 | R15=73 |

## Photo Parameters:

Flux = 1381 lm Eff. : 72.15 lm/W Fe = 4.377 W

## Electrical parameters:

V = 229.91 V I = 0.1600 A P = 19.14 W PF = 0.5205

WHITE:ANSI_5700K

Status: Integral T = 24 ms Ip = 50760 (77%)

| | |
|---|---|
| Model:LED PANEL SQUARE/18W | Number:99LED968CW |
| Tester:Petya Marinova | Date:2018-08-17 09:41 |
| Temperature:25.3Deg | Humidity:65.0% |
| Manufacturer:ELMARK | Remarks:O18V019A_4809 |