# 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:** 99LED609IP65E

**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**

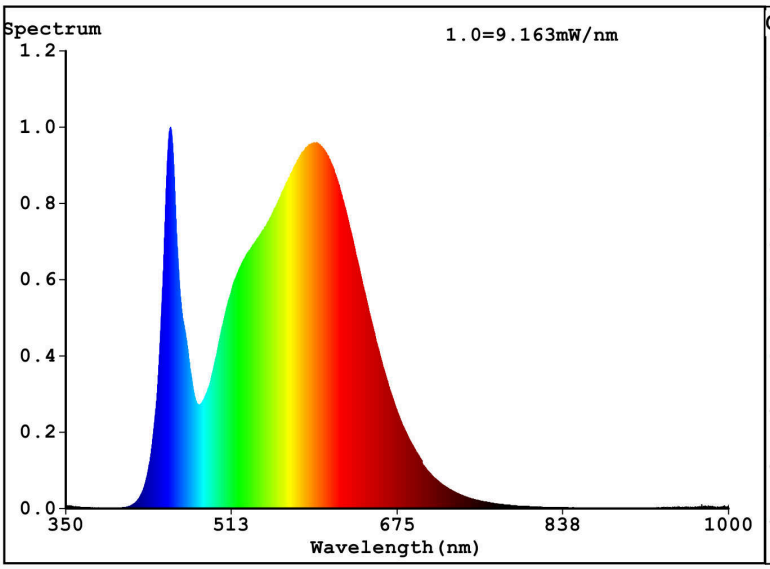
| Parameter | Value | Parameter | Value |
|---|---|---|---|
| **General product parameters:** | | | |
| Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer | 5 | Energy efficiency class | F |
| Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º) | 500 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 | 4 000 |
| On-mode power ($P_{on}$), expressed in W | 5,6 | 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 | 88 | Spectral power distribution in the | See image in last page |
| Outer dimensions without — Width | 88 | | |
| Outer dimensions without — Depth | 30 | | |

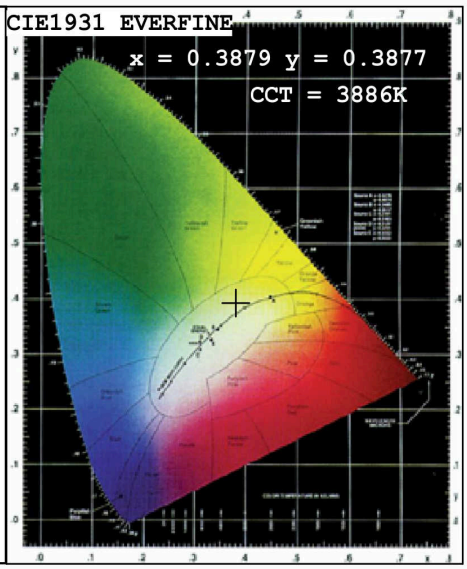
| | | | | |
|---|---|---|---|---|
| separate control gear, lighting control parts and non-lighting control parts, if any (millimetre) | | | range 250 nm to 800 nm, at full-load | |
| Claim of equivalent power[a] | | - | If yes, equivalent power (W) | - |
| | | | Chromaticity coordinates (x and y) | 0,387<br>0,387 |
| **Parameters for directional light sources:** | | | | |
| Peak luminous intensity (cd) | | 452 | 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 | | 5 | 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 | 3 |
| 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=0.3879 y=0.3877/u'=0.2256 v'=0.5074

CCT=3886K(Duv=0.0029) Dominant WL:Ld =578.1nm WL:Lc = --nm Purity=32.8%

Ratio:R=18.4% G=78.1% B=3.5%¡¡Peak WL:Lp=452.7nm FWHM=21.3nm

Render Index:Ra=82.3

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| R1 =80 | R2 =89 | R3 =96 | R4 =80 | R5 =80 | R6 =85 | R7 =86 | |
| R8 =63 | R9 =5 | R10=74 | R11=79 | R12=59 | R13=82 | R14=98 | R15=73 |

## Photo Parameters:

Flux = 503.5 lm Eff. : 89.46 lm/W Fe = 1.506 W

## Electrical parameters:

V = 220.02 V I = 0.04902 A P = 5.628 W PF = 0.5218

WHITE:ANSI_4000K

Status: Integral T = 112 ms Ip = 51137 (78%)

| | |
|---|---|
| Model:LED PANELROUND IP65 | Number:99LED609IP65 |
| Tester:Atanas DAKOV | Date:2020-04-15 10:02:10 |
| Temperature:25.3Deg | Humidity:65.0% |
| Manufacturer:ELMARK | Remarks:6476 |