# 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:** 99LED616IP65CW

**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): | Yes |
| Colour-tuneable light source: | No | Envelope: | - |
| High luminance light source: | Yes | | |
| Anti-glare shield: | No | Dimmable: | No |

**Product parameters**

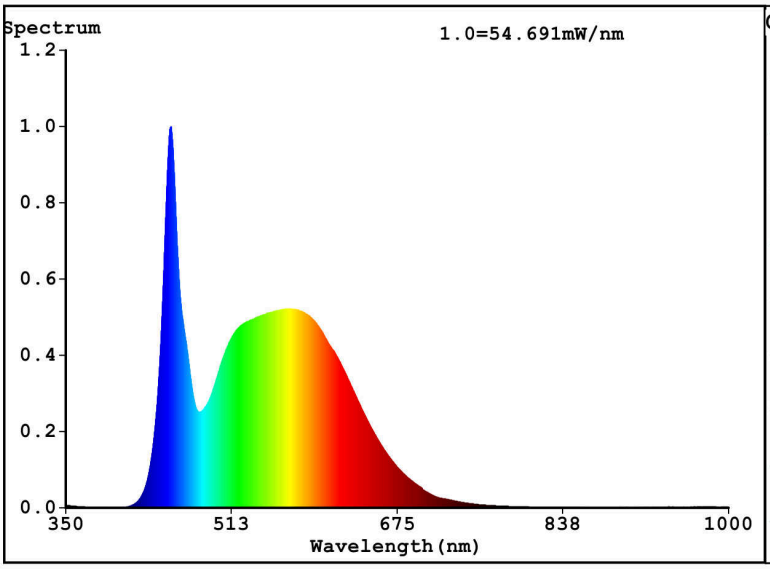
| Parameter | Value | Parameter | Value |
|---|---|---|---|
| **General product parameters:** | | | |
| Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer | 16 | Energy efficiency class | F |
| Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º) | 1 500 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 | 6 000 |
| On-mode power ($P_{on}$), expressed in W | 17,7 | Standby power ($P_{sb}$), expressed in W and rounded to the second decimal | 0,20 |
| Networked standby power ($P_{net}$) for CLS, expressed in W and rounded to the second decimal | 0,20 | Colour rendering index, rounded to the nearest integer, or the range of CRI-values that can be set | 81 |
| Outer dimensions without separate control gear, lighting control — Height | 220 | Spectral power distribution in the range 250 nm to 800 nm, at full-load | See image in last page |
| Outer dimensions without separate control gear, lighting control — Width | 220 | | |
| Outer dimensions without separate control gear, lighting control — Depth | 27 | | |

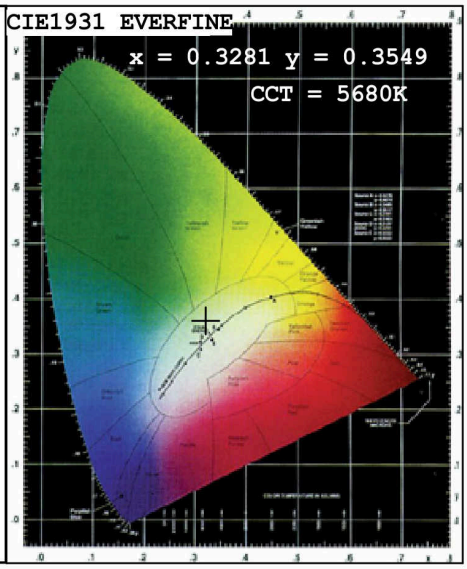
| | | | | |
|---|---|---|---|---|
| parts and non-lighting control parts, if any (millimetre) | | | | |
| Claim of equivalent power[(a)] | | - | If yes, equivalent power (W) | - |
| | | | Chromaticity coordinates (x and y) | 0,328<br>0,354 |
| **Parameters for directional light sources:** | | | | |
| Peak luminous intensity (cd) | | 546 | Beam angle in degrees, or the range of beam angles that can be set | 111 |
| **Parameters for LED and OLED light sources:** | | | | |
| R9 colour rendering index value | | 0 | Survival factor | 0,50 |
| the lumen maintenance factor | | 0,93 | | |
| **Parameters for LED and OLED mains light sources:** | | | | |
| displacement factor (cos ϕ1) | | 0,30 | 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=0.3281 y=0.3549/u'=0.1988 v'=0.4838

CCT=5680K(Duv=0.0088) Dominant WL:Ld =540.4nm WL:Lc = --nm Purity=5.1%

Ratio:R=13.8% G=81.1% B=5.2%¡¡Peak WL:Lp=453.0nm FWHM=20.3nm

Render Index:Ra=81.4 AvgR=73.6 TM30:Rf=83 Rg=92 Lav=546.3nm

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| R1 =78 | R2 =87 | R3 =94 | R4 =79 | R5 =79 | R6 =83 | R7 =87 | |
| R8 =64 | R9 =0 | R10=71 | R11=78 | R12=55 | R13=81 | R14=97 | R15=71 |

## Photo Parameters:

Flux = 1851 lm Eff. : 104.06 lm/W Fe = 5.708 W

## Electrical parameters:

V = 225.23 V I = 0.2035 A P = 17.79 W PF = 0.3881

WHITE:OUT

Status: Integral T = 22 ms Ip = 51022 (78%)

| | |
|---|---|
| Model:LED PANEL ROUND | Number:99LED616IP65CW |
| Tester:Atanas DAKOV | Date:2021-07-28 15:34:29 |
| Temperature:25.3Deg | Humidity:65.0% |
| Manufacturer:ELMARK | Remarks:7593 |