# 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:** 96LEDP20678

**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**

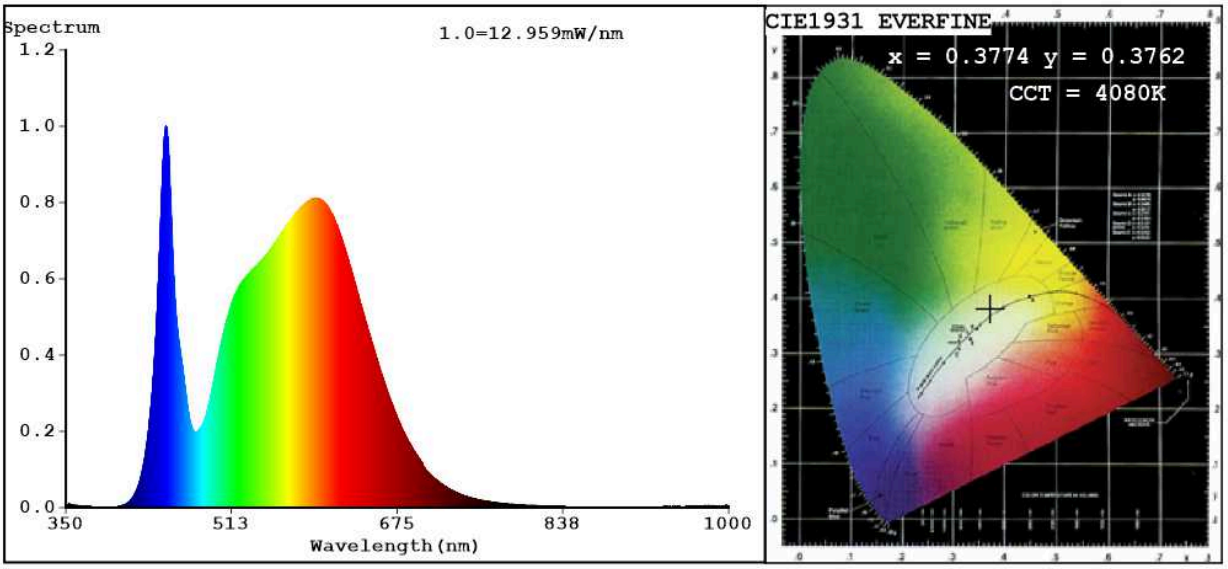
| Parameter | Value | Parameter | Value |
|---|---|---|---|
| **General product parameters:** | | | |
| Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer | 10 | Energy efficiency class | G |
| Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º) | 620 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 | 9,3 | 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 | 780 | Spectral power distribution in the | See image in last page |
| Outer dimensions without — Width | 110 | | |
| Outer dimensions without — Depth | 154 | | |

| | | | | |
|---|---|---|---|---|
| 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) | 0,377<br>0,376 |
| **Parameters for directional light sources:** | | | | |
| Peak luminous intensity (cd) | | 448 | Beam angle in degrees, or the range of beam angles that can be set | 60 |
| **Parameters for LED and OLED light sources:** | | | | |
| R9 colour rendering index value | | 12 | 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 | 0 |
| 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=0.3774 y=0.3762/u'=0.2233 v'=0.5009

CCT=4080K(Duv=0.0006) Dominant WL:Ld =578.4nm WL:Lc = --nm Purity=26.2%

Ratio:R=18.1% G=78.6% B=3.3%¡¡Peak WL:Lp=448.2nm FWHM=19.2nm

Render Index:Ra=82.9

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| R1 =82 | R2 =87 | R3 =92 | R4 =84 | R5 =82 | R6 =83 | R7 =87 | |
| R8 =67 | R9 =12 | R10=70 | R11=83 | R12=62 | R13=83 | R14=96 | R15=76 |

## Photo Parameters:

Flux = 620.8 lm Eff. : 66.66 lm/W Fe = 1.905 W

## Electrical parameters:

V = 229.98 V I = 0.07585 A P = 9.314 W PF = 0.5339

WHITE:ANSI_4000K

Status: Integral T = 68 ms Ip = 41596 (63%)

Model:GRF206 LED/10W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:96LEDP20678
Date:2019-11-05 11:17:30
Humidity:65.0%
Remarks:ELM-1902_6131