

# 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:** 99LED960

**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:                        | Yes            |                                 |     |
| Anti-glare shield:                                  | No             | Dimmable:                       | No  |

## Product parameters

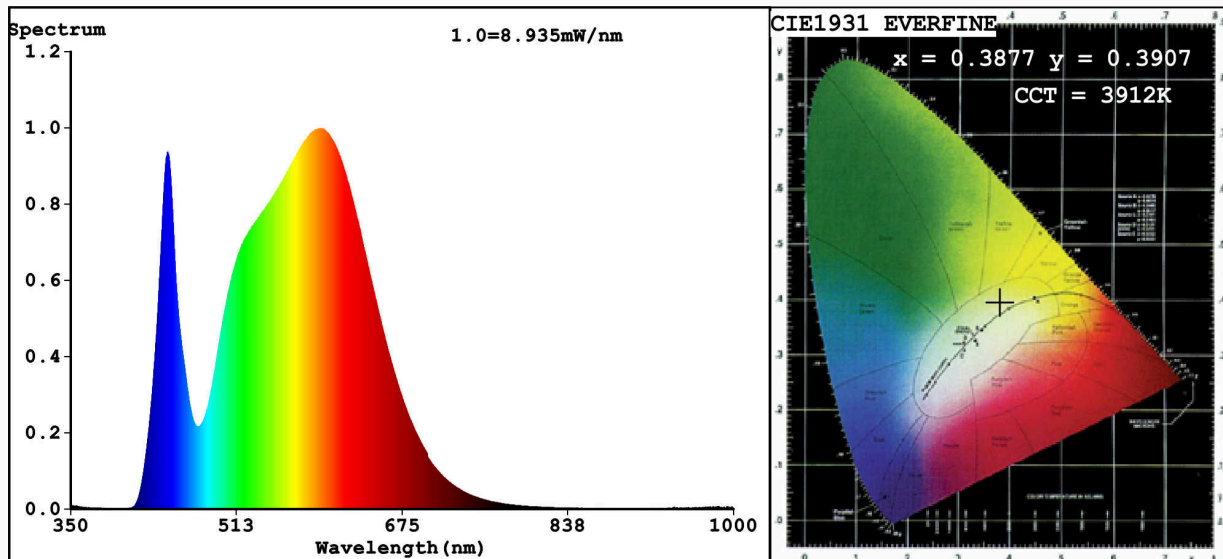
| Parameter  | Value                | Parameter  | Value                  |
|--|----------------------|--|------------------------|
| <b>General product parameters:</b>   |                      |  |                        |
| Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer  | 6                    | Energy efficiency class  | F                      |
| Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°) | 524 in Sphere (360°) | 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   | 6,0                  | 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 separate control gear, lighting control   | Height               | Spectral power distribution in the range 250 nm to 800 nm, at full-load  | See image in last page |
|  | Width                |  |                        |
|  | Depth                |  |                        |

|   |      |  |                |  |
|---|------|--|----------------|--|
| parts and non-lighting control parts, if any (millimetre)   |      |  |                |  |
| Claim of equivalent power <sup>(a)</sup>  | -    | If yes, equivalent power (W)                                       | -              |  |
|   |      | Chromaticity coordinates (x and y)                                 | 0,387<br>0,390 |  |
| <b>Parameters for directional light sources:</b>  |      |  |                |  |
| Peak luminous intensity (cd)  | 164  | Beam angle in degrees, or the range of beam angles that can be set | 107            |  |
| <b>Parameters for LED and OLED light sources:</b>   |      |  |                |  |
| R9 colour rendering index value   | 6    | Survival factor  | 0,90           |  |
| the lumen maintenance factor  | 1,00 |  |                |  |
| <b>Parameters for LED and OLED mains light sources:</b>   |      |  |                |  |
| displacement factor (cos $\phi_1$ )   | 0,50 | Colour consistency in McAdam ellipses                              | 6              |  |
| 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)   | 1,0  | Stroboscopic effect metric (SVM)                                   | 0,4            |  |

(a) '-': not applicable;

(b) '-': not applicable;

## Spectrum Test Report



### Color Parameters:

Chromaticity Coordinate:  $x=0.3877$   $y=0.3907$  /  $u'=0.2243$   $v'=0.5087$   
 CCT=3912K (Duv=0.0043) Dominant WL:  $\lambda_d = 577.4\text{nm}$  WL:  $\lambda_c = \text{--nm}$  Purity=33.6%  
 Ratio: R=18.2% G=78.7% B=3.1%; Peak WL:  $\lambda_p = 595.5\text{nm}$  FWHM=154.0nm  
 Render Index:  $R_a = 81.8$

|        |        |        |        |        |        |               |
|--------|--------|--------|--------|--------|--------|---------------|
| R1 =80 | R2 =86 | R3 =92 | R4 =83 | R5 =80 | R6 =82 | R7 =87        |
| R8 =65 | R9 =6  | R10=68 | R11=83 | R12=64 | R13=81 | R14=96 R15=73 |

### Photo Parameters:

Flux = 524.9 lm Eff. : 95.13 lm/W  $\Phi_e = 1.581\text{ W}$

### Electrical parameters:

V = 219.98 V I = 0.04593 A P = 5.518 W PF = 0.5461  
 WHITE: ANSI\_4000K

Status: Integral T = 74 ms  $I_p = 29534$  (45%)

Model: LED PANEL ROUND  
 Tester: Atanas DAKOV  
 Temperature: 25.3Deg  
 Manufacturer: ELMARK

Number: 99LED960  
 Date: 2021-03-17 09:00:46  
 Humidity: 65.0%  
 Remarks: 7388