

# 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:** 99LED850W

**Type of light source:**

|   |     |                                 |      |
|---|-----|---------------------------------|------|
| Lighting technology used:                           | LED | Non-directional or directional: | NDLS |
| Light source cap-type (or other electric interface) | E27 |                                 |      |
| 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

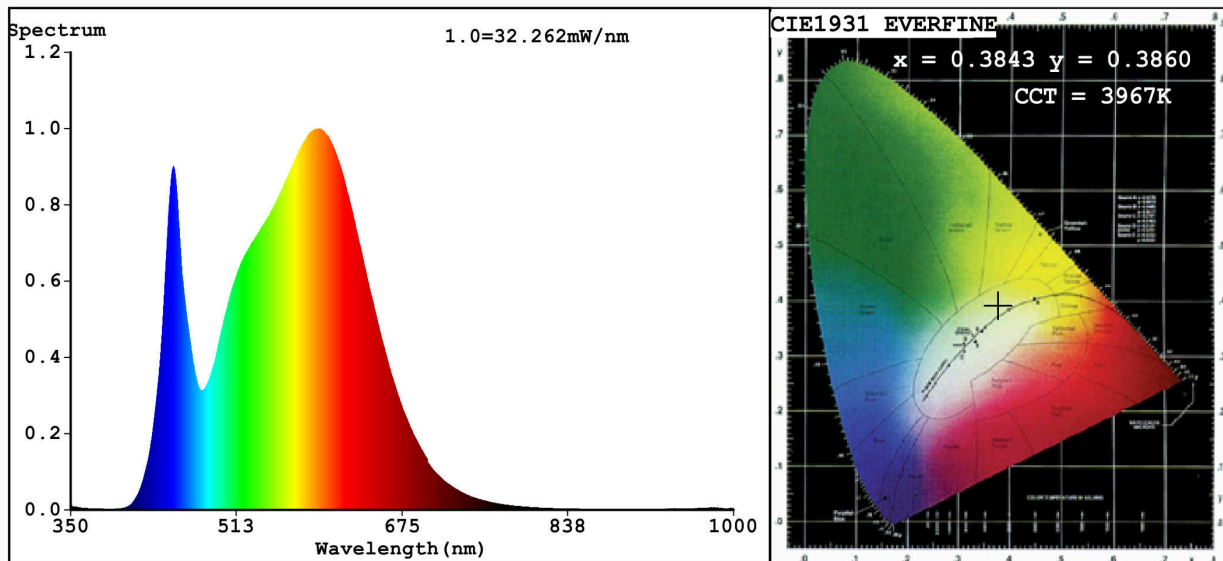
| Parameter  | Value                  | Parameter  | Value                  |
|--|------------------------|--|------------------------|
| <b>General product parameters:</b>   |                        |  |                        |
| Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer  | 18                     | Energy efficiency class  | E                      |
| 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°) | 1 893 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   | 16,0                   | 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   | 82                     |
| Outer dimensions without   | Height                 | Spectral power distribution in the   | See image in last page |
|  | Width                  |  |                        |
|  | Depth                  |  |                        |

|   |                    |                                       |                                      |  |
|---|--------------------|---------------------------------------|--------------------------------------|--|
| 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 <sup>(a)</sup>  | Yes                | If yes, equivalent power (W)          | 100                                  |  |
|   |                    | Chromaticity coordinates (x and y)    | 0,384<br>0,386                       |  |
| <b>Parameters for LED and OLED light sources:</b>   |                    |                                       |                                      |  |
| R9 colour rendering index value   | 3                  | Survival factor                       | 0,90                                 |  |
| the lumen maintenance factor  | 0,93               |                                       |                                      |  |
| <b>Parameters for LED and OLED mains light sources:</b>   |                    |                                       |                                      |  |
| displacement factor (cos $\phi_1$ )   | 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. | Yes <sup>(b)</sup> | If yes then replacement claim (W)     | 25                                   |  |
| Flicker metric (Pst LM)   | 0,6                | Stroboscopic effect metric (SVM)      | 0,2                                  |  |

(a) : not applicable;

(b) : not applicable;

## Spectrum Test Report



### Color Parameters:

Chromaticity Coordinate:  $x=0.3843$   $y=0.3860$  /  $u'=0.2239$   $v'=0.5062$   
 CCT=3967K (Duv=0.0032) Dominant WL:  $\lambda_d = 577.6\text{nm}$  WL:  $\lambda_c = \text{--nm}$  Purity=31.2%  
 Ratio: R=18.1% G=78.3% B=3.6% ; Peak WL:  $\lambda_p = 592.2\text{nm}$  FWHM=149.8nm  
 Render Index:  $R_a = 82.3$

|        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|
| R1 =80 | R2 =88 | R3 =96 | R4 =81 | R5 =80 | R6 =85 | R7 =86 |
| R8 =63 | R9 =3  | R10=73 | R11=80 | R12=64 | R13=82 | R14=98 |
|        |        |        |        |        |        | R15=73 |

### Photo Parameters:

Flux = 1858 lm    Eff. : 93.80 lm/W     $P_e = 5.610\text{ W}$

### Electrical parameters:

V = 219.97 V    I = 0.2377 A    P = 19.80 W PF = 0.3788

WHITE: ANSI\_4000K

Status: Integral T = 25 ms     $I_p = 39738$  (61%)

Model: LED PEAR A65 SMD2835  
 Tester: Atanas DAKOV  
 Temperature: 25.3Deg  
 Manufacturer: ELMARK

Number: 99LED850W  
 Date: 2021-04-07 09:17:24  
 Humidity: 65.0%  
 Remarks: 7377