

# 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:** 99LED831W

## Type of light source:

Lighting technology used:	LED	Non-directional or directional:	DLS
Light source cap-type (or other electric interface)	GU10		
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

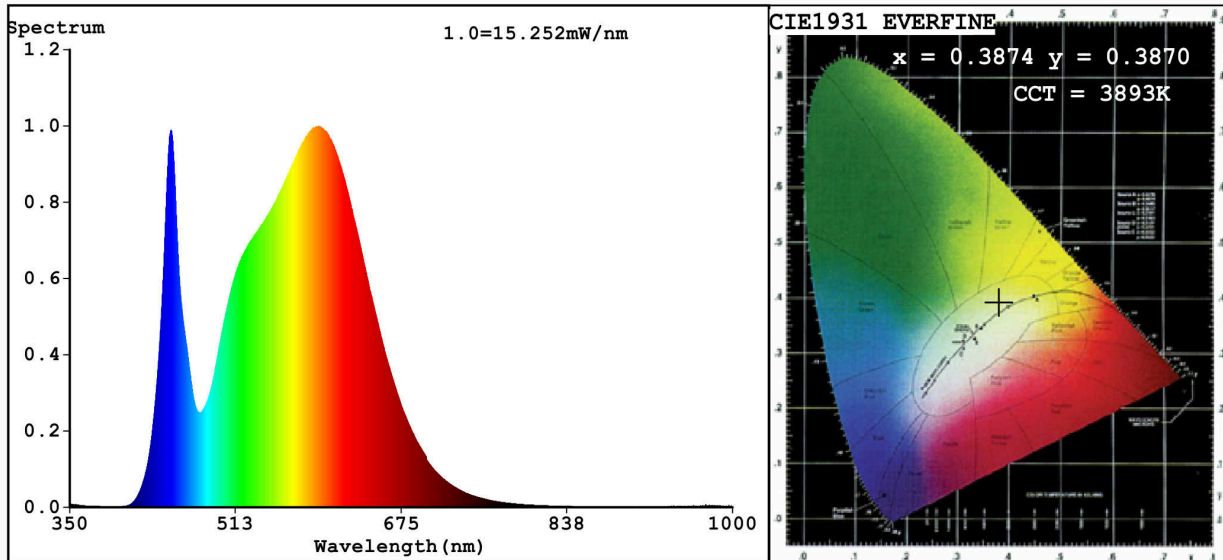
Parameter	Value	Parameter	Value
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	8	Energy efficiency class	G
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	640 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	10,0	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	56	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	50	
	Depth	50	
			See image in last page

parts and non-lighting control parts, if any (millimetre)			
Claim of equivalent power <sup>(a)</sup>	Yes	If yes, equivalent power (W)	53
		Chromaticity coordinates (x and y)	0,380 0,380
<b>Parameters for directional light sources:</b>			
Peak luminous intensity (cd)	593	Beam angle in degrees, or the range of beam angles that can be set	105
<b>Parameters for LED and OLED light sources:</b>			
R9 colour rendering index value	0	Survival factor	0,90
the lumen maintenance factor	0,93		
<b>Parameters for LED and OLED mains light sources:</b>			
displacement factor (cos $\phi_1$ )	0,50	Colour consistency in McAdam ellipses	6
Claims that an LED light source replaces a fluorescent light source without integrated ballast of a particular wattage.	Yes <sup>(b)</sup>	If yes then replacement claim (W)	50
Flicker metric (Pst LM)	0,6	Stroboscopic effect metric (SVM)	0,4

(a) : not applicable;

(b) : not applicable;

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3874$   $y=0.3870$  /  $u'=0.2256$   $v'=0.5070$   
 CCT=3893K (Duv=0.0027) Dominant WL:Ld =578.2nm WL:Lc = --nm Purity=32.4%  
 Ratio:R=18.3% G=78.4% B=3.3%; Peak WL:Lp=593.8nm FWHM=148.5nm  
 Render Index:Ra=81.8 AvgR=74.7 TM30:Rf=84 Rg=95 Lav=571.5nm

R1 =79    R2 =87    R3 =94    R4 =81    R5 =80    R6 =83    R7 =86  
 R8 =63    R9 =3    R10=71    R11=80    R12=62    R13=81    R14=97    R15=73

**Photo Parameters:**

Flux = 872.2 lm    Eff. : 83.44 lm/W    Fe = 2.615 W

**Electrical parameters:**

V = 225.09 V    I = 0.2010 A    P = 10.45 W PF = 0.2310  
 WHITE:ANSI\_4000K

Status: Integral T = 74 ms    Ip = 50893 (78%)

Model:LED SMD2835 G10  
 Tester:Atanas DAKOV  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99LED831W  
 Date:2021-09-01 08:53:54  
 Humidity:65.0%  
 Remarks:7807