

# 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:** 99LED831WW

## 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

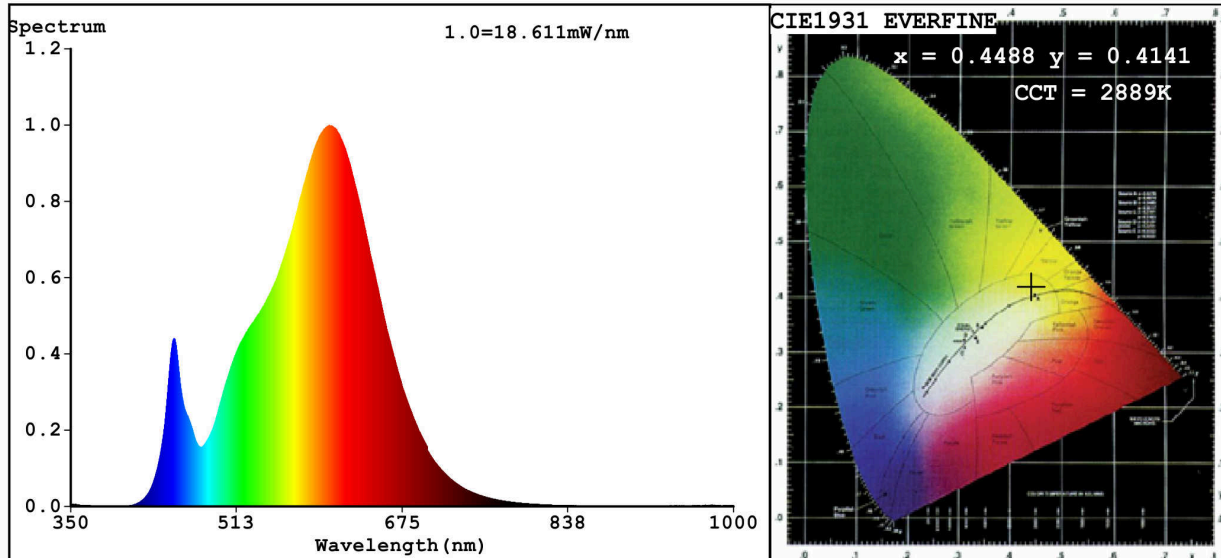
Parameter	Value	Parameter	Value
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	8	Energy efficiency class	G
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a 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	2 700
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	82
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)	0,448 0,414
<b>Parameters for directional light sources:</b>			
Peak luminous intensity (cd)	275	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:  $x=0.4488$   $y=0.4141$   $u'=0.2539$   $v'=0.5270$   
 CCT=2889K (Duv=0.0024) Dominant WL:Ld =582.5nm WL:Lc = --nm Purity=59.0%  
 Ratio:R=23.4% G=74.3% B=2.3% ; Peak WL:Lp=603.5nm FWHM=124.6nm  
 Render Index:Ra=82.1 AvgR=76.0 TM30:Rf=85 Rg=94 Lav=592.1nm

R1 =80    R2 =90    R3 =97    R4 =80    R5 =80    R6 =88    R7 =83  
 R8 =58    R9 =4    R10=78    R11=80    R12=70    R13=82    R14=99    R15=72

**Photo Parameters:**

Flux = 891.6 lm    Eff. : 84.72 lm/W    Fe = 2.688 W

**Electrical parameters:**

V = 225.19 V    I = 0.1975 A    P = 10.52 W PF = 0.2367  
 WHITE:ANSI\_3000K

Status: Integral T = 59 ms Ip = 49133 (75%)

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

Number:99LED831WW  
 Date:2021-09-01 08:58:57  
 Humidity:65.0%  
 Remarks:7807