

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: 99LED831CW

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

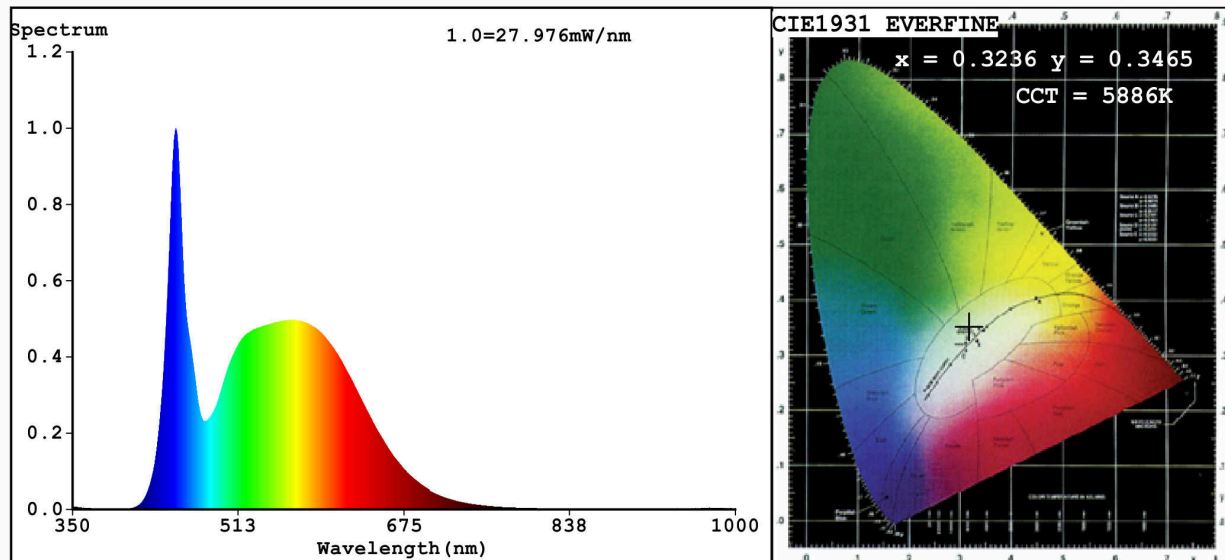
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	8	Energy efficiency class	G
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	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	6 000
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	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 ^(a)	Yes	If yes, equivalent power (W)	53	
		Chromaticity coordinates (x and y)	0,323 0,346	
Parameters for directional light sources:				
Peak luminous intensity (cd)	451	Beam angle in degrees, or the range of beam angles that can be set	120	
Parameters for LED and OLED light sources:				
R9 colour rendering index value	0	Survival factor	0,90	
the lumen maintenance factor	0,93			
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ_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 ^(b)	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: $x=0.3236$ $y=0.3465$ $u'=0.1988$ $v'=0.4790$
CCT=5886K (Duv=0.0067) Dominant WL:Ld =510.8nm WL:Lc = --nm Purity=3.1%
Ratio:R=13.7% G=81.1% B=5.2%; Peak WL:Lp=451.3nm FWHM=20.0nm
Render Index:Ra=82.2 AvgR=74.4 TM30:Rf=84 Rg=94 Lav=544.5nm

R1 =79	R2 =87	R3 =92	R4 =82	R5 =80	R6 =82	R7 =88
R8 =67	R9 =1	R10=69	R11=81	R12=57	R13=81	R14=96 R15=74

Photo Parameters:

Flux = 904.4 lm Eff. : 85.30 lm/W Fe = 2.841 W

Electrical parameters:

V = 225.19 V I = 0.1965 A P = 10.60 W PF = 0.2396

WHITE:ANSI_5700K

Status: Integral T = 47 ms Ip = 50362 (77%)

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

Number:99LED831CW
Date:2021-09-01 09:02:19
Humidity:65.0%
Remarks:7807