

# 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:** 99LED966

## 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

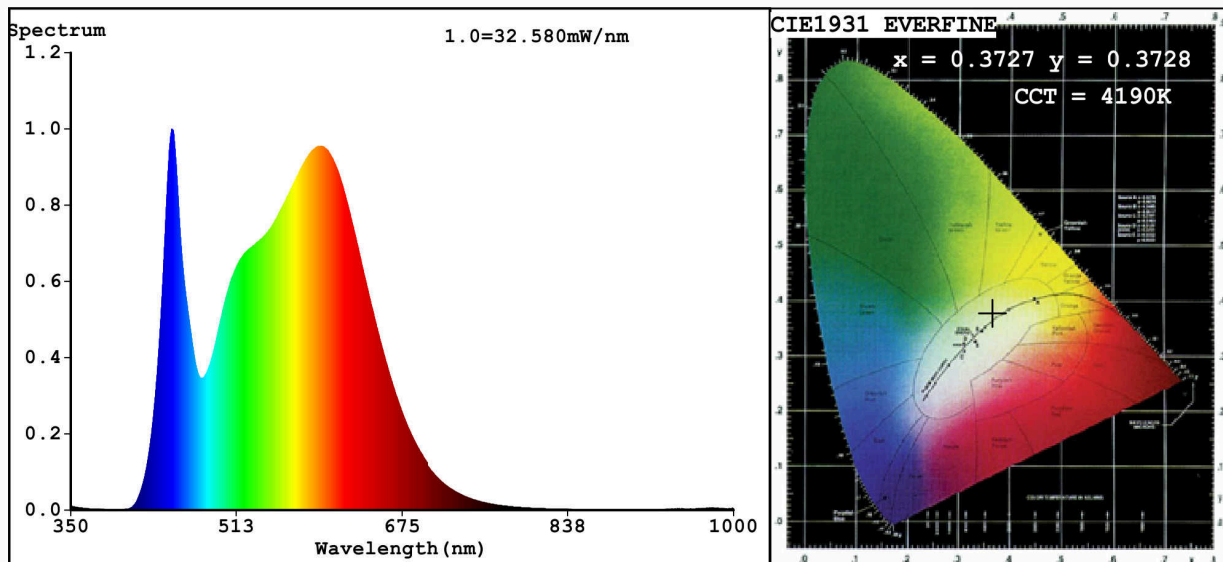
Parameter	Value	Parameter	Value
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	28	Energy efficiency class	F
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	2 000 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	22,0	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	85
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)	0,372 0,372	
<b>Parameters for directional light sources:</b>				
Peak luminous intensity (cd)	804	Beam angle in degrees, or the range of beam angles that can be set	112	
<b>Parameters for LED and OLED light sources:</b>				
R9 colour rendering index value	14	Survival factor	0,50	
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.	-(b)	If yes then replacement claim (W)	-	
Flicker metric (Pst LM)	0,0	Stroboscopic effect metric (SVM)	0,0	

(a) '-': not applicable;

(b) '-': not applicable;

## Spectrum Test Report



### Color Parameters:

Chromaticity Coordinate:  $x=0.3727$   $y=0.3728$   $u'=0.2216$   $v'=0.4987$   
 CCT=4190K (Duv=0.0005) Dominant WL:Ld =578.0nm WL:Lc = --nm Purity=23.7%  
 Ratio:R=18.0% G=77.9% B=4.1%; Peak WL:Lp=449.6nm FWHM=27.8nm  
 Render Index:Ra=85.2

R1 =84	R2 =91	R3 =96	R4 =85	R5 =84	R6 =88	R7 =87
R8 =67	R9 =14	R10=79	R11=85	R12=70	R13=86	R14=98 R15=77

### Photo Parameters:

Flux = 1816 lm Eff. : 82.29 lm/W Fe = 5.624 W

### Electrical parameters:

V = 229.96 V I = 0.1771 A P = 22.07 W PF = 0.5418

WHITE:ANSI\_4000K

Status: Integral T = 30 ms Ip = 51407 (78%)

Model:LED PANEL ROUND ECO 11/28W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99LED966  
 Date:2019-07-23 14:48:23  
 Humidity:65.0%  
 Remarks:27Q39119029\_5773