

# 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:** 99LED964CW

## 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

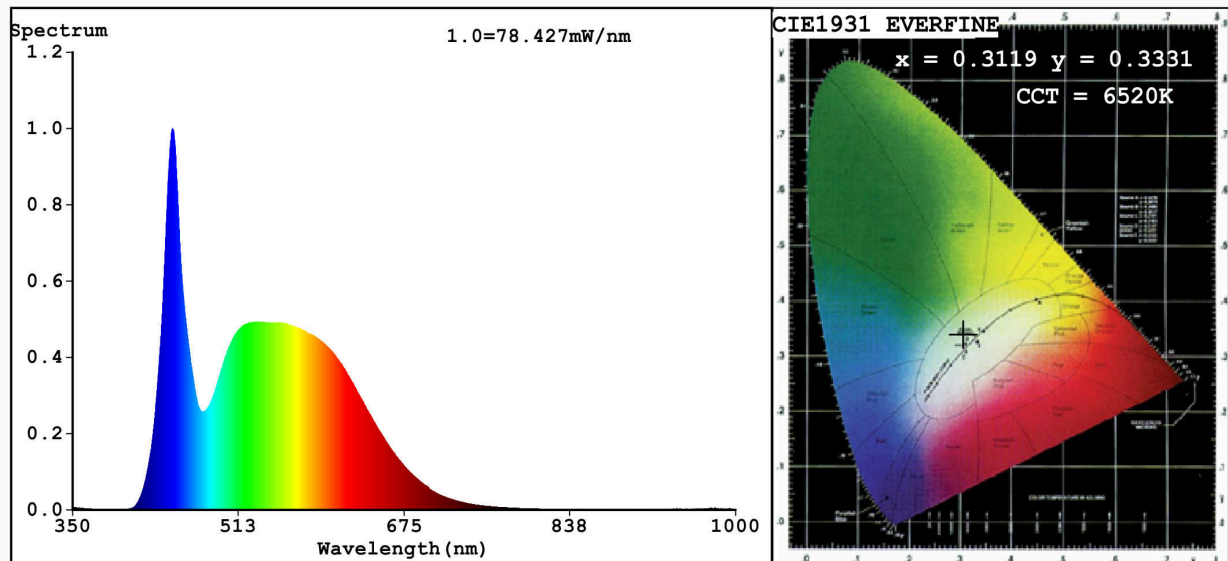
Parameter	Value	Parameter	Value
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	28	Energy efficiency class	F
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	1 700 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	6 500
On-mode power ( $P_{on}$ ), expressed in W	21,3	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	84
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)	0,311 0,333	
<b>Parameters for directional light sources:</b>				
Peak luminous intensity (cd)	619	Beam angle in degrees, or the range of beam angles that can be set	107	
<b>Parameters for LED and OLED light sources:</b>				
R9 colour rendering index value	17	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	0	
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:  $x=0.3119$   $y=0.3331$   $u'=0.1957$   $v'=0.4704$   
 CCT=6520K (Duv=0.0057) Dominant WL:  $\lambda_d = 491.6\text{nm}$  WL:  $\lambda_c = \text{--nm}$  Purity=7.3%  
 Ratio: R=13.5% G=80.9% B=5.6% ; Peak WL:  $\lambda_p = 447.6\text{nm}$  FWHM=23.4nm  
 Render Index: Ra=84.8

R1 =83	R2 =87	R3 =91	R4 =86	R5 =84	R6 =84	R7 =90
R8 =74	R9 =17	R10=71	R11=86	R12=66	R13=84	R14=95 R15=78

### Photo Parameters:

Flux = 2551 lm Eff. : 119.68 lm/W  $\Phi_e$  = 8.391 W

### Electrical parameters:

V = 219.97 V I = 0.1783 A P = 21.31 W PF = 0.5433  
 WHITE: ANSI\_6500K

Status: Integral T = 19 ms  $I_p$  = 45358 (69%)

Model: LED PANEL ROUND  
 Tester: Atanas DAKOV  
 Temperature: 25.3Deg  
 Manufacturer: ELMARK

Number: 99LED964CW  
 Date: 2020-10-12 16:31:47  
 Humidity: 65.0%  
 Remarks: 6276