

# 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:** 92PANEL028W

## 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):	Yes
Colour-tuneable light source:	No	Envelope:	-
High luminance light source:	Yes		
Anti-glare shield:	No	Dimmable:	No

## Product parameters

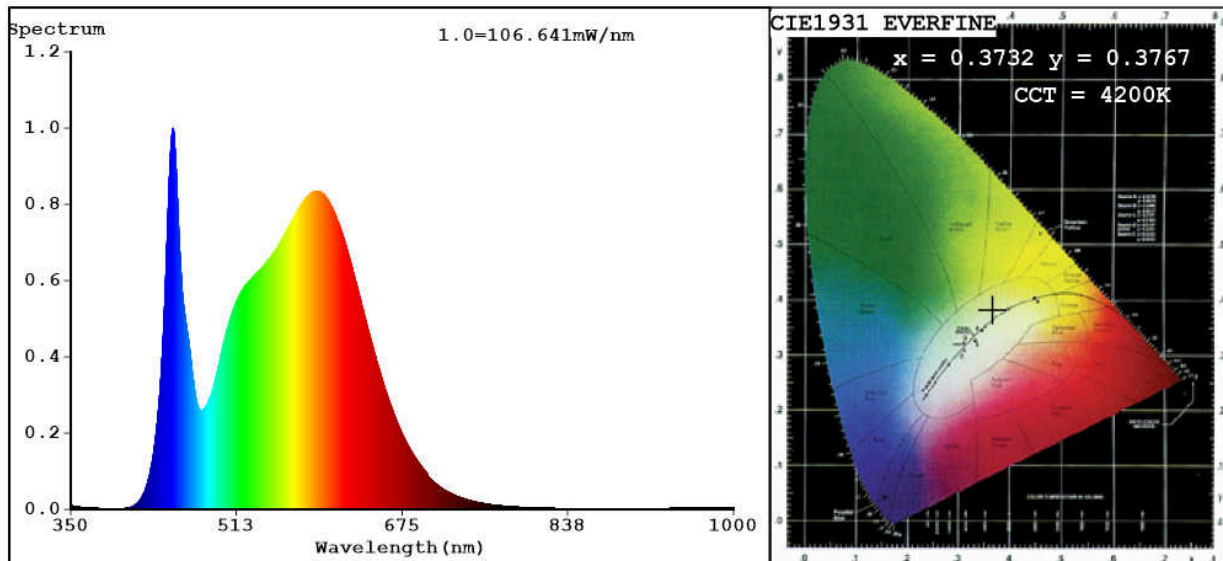
Parameter	Value	Parameter	Value
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	48	Energy efficiency class	E
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	5 200 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	49,5	Standby power ( $P_{sb}$ ), expressed in W and rounded to the second decimal	0,20
Networked standby power ( $P_{net}$ ) for CLS, expressed in W and rounded to the second decimal	0,20	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	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)	0,373 0,376	
<b>Parameters for directional light sources:</b>				
Peak luminous intensity (cd)	2 510	Beam angle in degrees, or the range of beam angles that can be set	87	
<b>Parameters for LED and OLED light sources:</b>				
R9 colour rendering index value	1	Survival factor	0,50	
the lumen maintenance factor	0,95			
<b>Parameters for LED and OLED mains light sources:</b>				
displacement factor (cos $\phi_1$ )	0,70	Colour consistency in McAdam ellipses	4	
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)	0,2	Stroboscopic effect metric (SVM)	0,6	

(a) '-': not applicable;

(b) '-': not applicable;

## Spectrum Test Report



### Color Parameters:

Chromaticity Coordinate:  $x=0.3732$   $y=0.3767$   $u'=0.2204$   $v'=0.5005$   
 CCT=4200K (Duv=0.0022) Dominant WL:  $L_d = 577.0nm$  WL:  $L_c = --nm$  Purity=25.1%  
 Ratio: R=17.4% G=78.8% B=3.8% ; Peak WL:  $L_p = 450.6nm$  FWHM=21.4nm  
 Render Index:  $R_a = 82.3$  AvgR=75.2 TM30:  $R_f = 84$   $R_g = 94$   $L_{av} = 565.6nm$

R1 =80	R2 =89	R3 =95	R4 =81	R5 =81	R6 =85	R7 =86
R8 =63	R9 =1	R10=74	R11=80	R12=61	R13=82	R14=98 R15=73

### Photo Parameters:

Flux = 5182 lm Eff. : 104.57 lm/W  $F_e = 15.60 W$

### Electrical parameters:

V = 229.91 V I = 0.2906 A P = 49.56 W PF = 0.7418

WHITE: ANSI\_4000K

Status: Integral T = 14 ms  $I_p = 51477 (79\%)$

Model: LED INTERIOR LIGHTING  
 Tester: Atanas DAKOV  
 Temperature: 25.3Deg  
 Manufacturer: ELMARK

Number: 92PANEL028W  
 Date: 2022-04-12 09:03:54  
 Humidity: 65.0%  
 Remarks: 7964