

# 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:** 92PANEL020WE

## 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:	No		
Anti-glare shield:	No	Dimmable:	No

## Product parameters

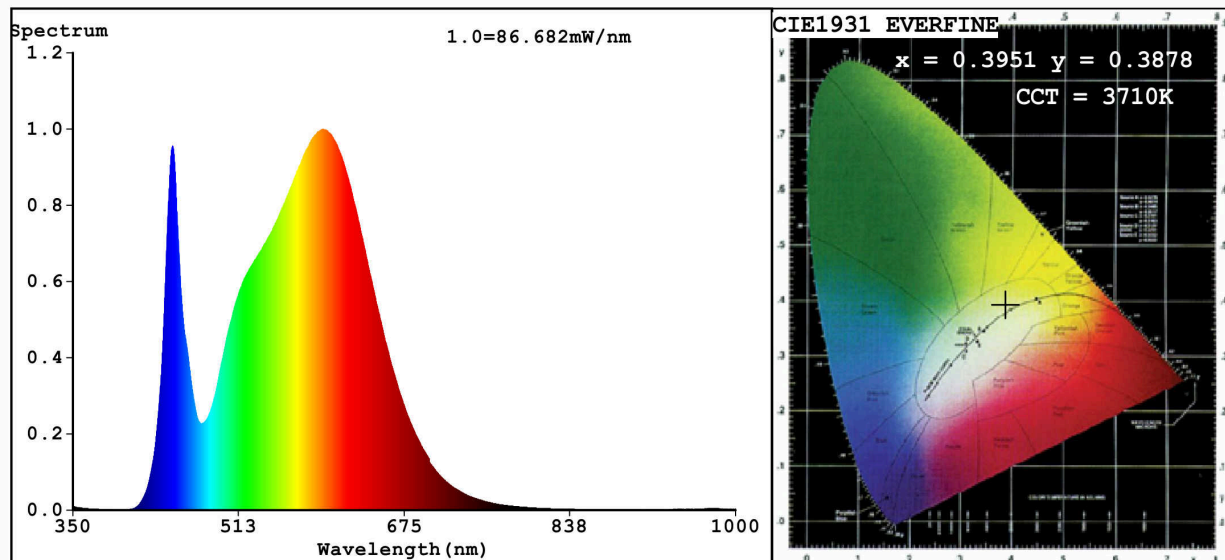
Parameter	Value	Parameter	Value
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	48	Energy efficiency class	F
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	4 800 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	48,5	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	80
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 <sup>(a)</sup>	-	If yes, equivalent power (W)	-	
		Chromaticity coordinates (x and y)	0,395 0,387	
<b>Parameters for directional light sources:</b>				
Peak luminous intensity (cd)	595	Beam angle in degrees, or the range of beam angles that can be set	120	
<b>Parameters for LED and OLED light sources:</b>				
R9 colour rendering index value	4	Survival factor	0,50	
the lumen maintenance factor	0,93			
<b>Parameters for LED and OLED mains light sources:</b>				
displacement factor (cos $\phi_1$ )	0,90	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:  $x=0.3951$   $y=0.3878$   $u'=0.2303$   $v'=0.5085$   
 CCT=3710K (Duv=0.0011) Dominant WL:  $L_d = 579.6nm$  WL:  $L_c = --nm$  Purity=35.0%  
 Ratio: R=19.1% G=77.8% B=3.1% Peak WL:  $L_p = 595.8nm$  FWHM=146.5nm  
 Render Index:  $R_a = 81.9$

R1 =80	R2 =88	R3 =95	R4 =81	R5 =80	R6 =84	R7 =85
R8 =62	R9 =4	R10=72	R11=80	R12=64	R13=81	R14=97
						R15=73

### Photo Parameters:

Flux = 4824 lm Eff. : 99.42 lm/W Fe = 14.50 W

### Electrical parameters:

V = 219.89 V I = 0.2348 A P = 48.52 W PF = 0.9397

WHITE: ANSI\_3500K

Status: Integral T = 17 ms Ip = 51323 (78%)

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

Number: 92PANEL020W  
 Date: 2021-03-23 10:01:42  
 Humidity: 65.0%  
 Remarks: 7455