

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: 92PANEL020WIP44E

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

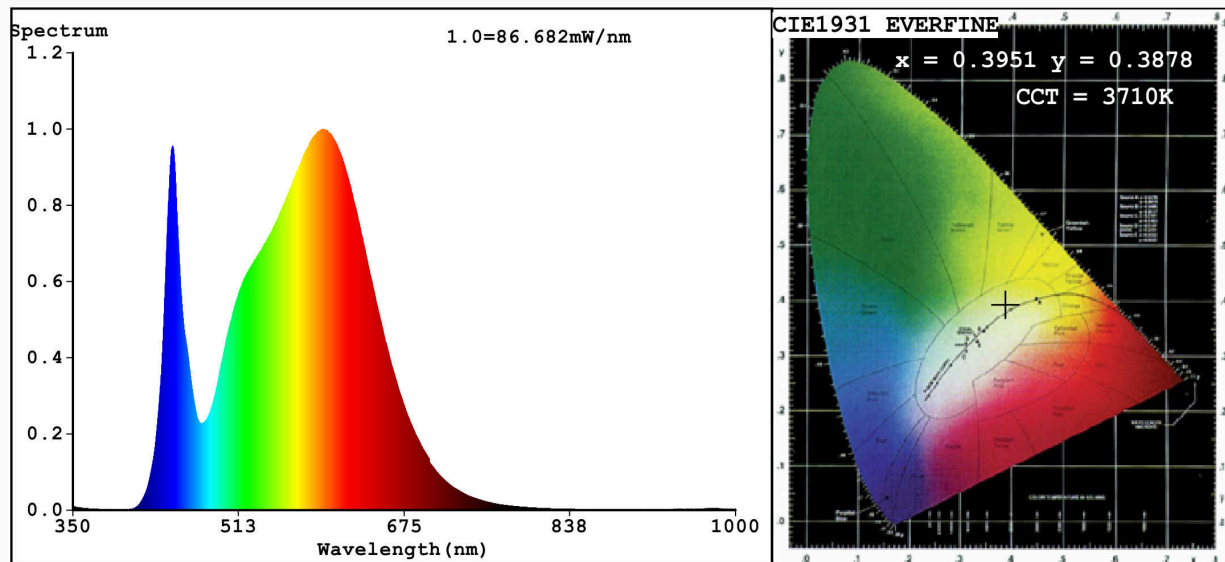
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	48	Energy efficiency class	F
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	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 ^(a)	-	If yes, equivalent power (W)	-	
		Chromaticity coordinates (x and y)	0,395 0,387	
Parameters for directional light sources:				
Peak luminous intensity (cd)	595	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	4	Survival factor	0,50	
the lumen maintenance factor	0,93			
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ_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 $F_e = 14.50 W$

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 $I_p = 51323 (78\%)$

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