

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: 92PANEL021WE

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

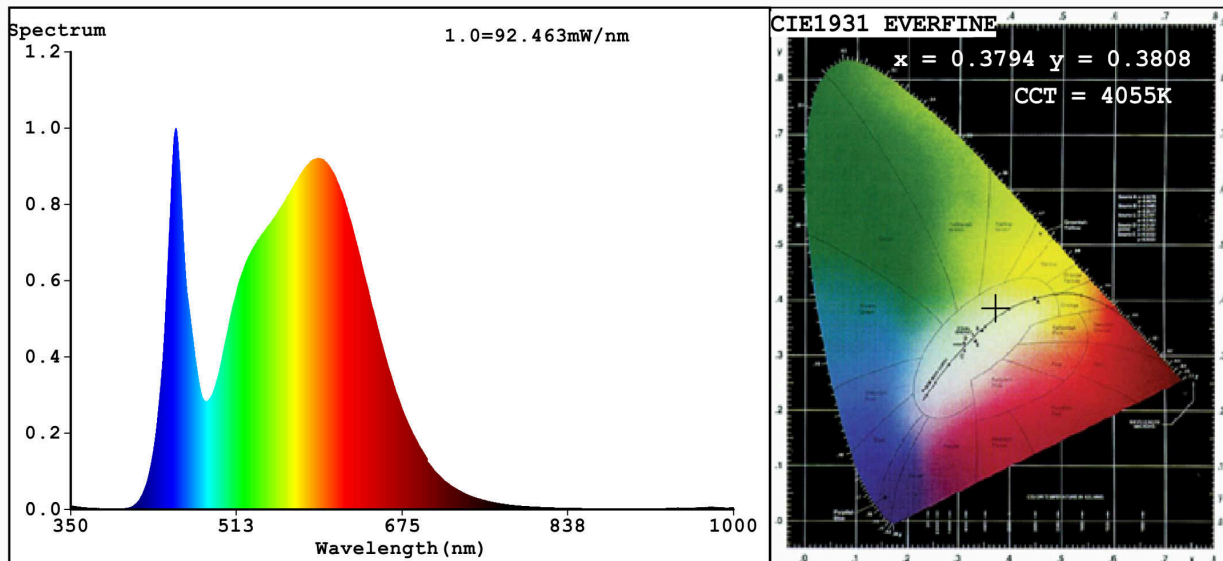
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	48	Energy efficiency class	F
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	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	48,0	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	82
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)	0,379 0,380	
Parameters for directional light sources:				
Peak luminous intensity (cd)	453	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	10	Survival factor	0,50	
the lumen maintenance factor	0,95			
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: $x=0.3794$ $y=0.3808$ $u'=0.2228$ $v'=0.5032$
 CCT=4055K (Duv=0.0022) Dominant WL: $\lambda_d = 577.7\text{nm}$ WL: $\lambda_c = \text{--nm}$ Purity=28.1%
 Ratio: R=18.0% G=78.4% B=3.6% Peak WL: $\lambda_p = 453.3\text{nm}$ FWHM=24.6nm
 Render Index: $R_a = 82.8$

R1 =81	R2 =89	R3 =95	R4 =81	R5 =81	R6 =84	R7 =87
R8 =65	R9 =10	R10=73	R11=79	R12=59	R13=83	R14=97 R15=75

Photo Parameters:

Flux = 5014 lm Eff. : 101.97 lm/W $\eta_e = 15.29$ W

Electrical parameters:

V = 220.02 V I = 0.2292 A P = 49.18 W PF = 0.9752
 WHITE: ANSI_4000K

Status: Integral T = 12 ms $I_p = 53291$ (81%)

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

Number: 92PANEL021W
 Date: 2020-04-16 09:05:38
 Humidity: 65.0%
 Remarks: 6506