

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: 99LED972CW

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

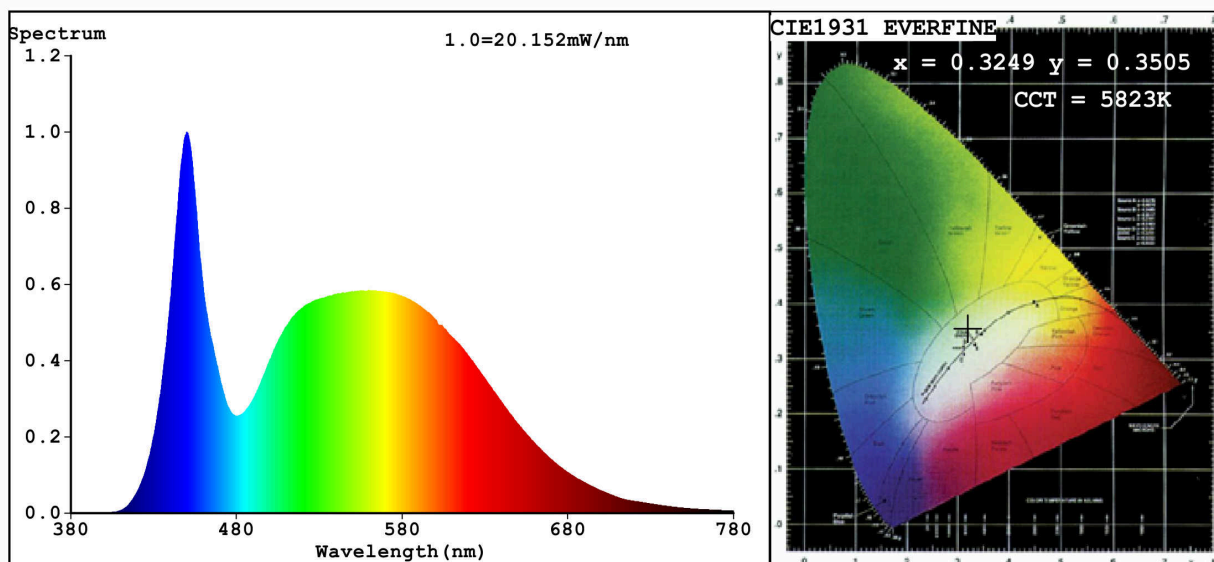
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	12	Energy efficiency class	G
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	760 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	6 000
On-mode power (P_{on}), expressed in W	13,5	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	80
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 ^(a)	-	If yes, equivalent power (W)	-	
		Chromaticity coordinates (x and y)	0,324 0,350	
Parameters for directional light sources:				
Peak luminous intensity (cd)	307	Beam angle in degrees, or the range of beam angles that can be set	113	
Parameters for LED and OLED light sources:				
R9 colour rendering index value	0	Survival factor	0,50	
the lumen maintenance factor	0,93			
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ_1)	0,50	Colour consistency in McAdam ellipses	5	
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: $x=0.3249$ $y=0.3505$ / $u'=0.1982$ $v'=0.4811$

CCT=5823K (Duv=0.0081) Dominant WL: $\lambda_d = 521.5\text{nm}$ Purity=3.4%

Ratio: R=13.5% G=81.6% B=4.9%; Peak WL: $\lambda_p = 449.9\text{nm}$ FWHM=24.2nm

Render Index: $R_a = 80.7$

R1 = 77	R2 = 84	R3 = 91	R4 = 81	R5 = 79	R6 = 80	R7 = 87
R8 = 66	R9 = 0	R10 = 64	R11 = 80	R12 = 58	R13 = 79	R14 = 95
						R15 = 71

Photo Parameters:

Flux = 760.9 lm Eff. : 56.35 lm/W $\Phi_e = 2.365\text{ W}$

Electrical parameters:

V = 229.95 V I = 0.1071 A P = 13.50 W PF = 0.5485

WHITE: OUT

Status: Integral T = 43 ms $I_p = 47882$ (73%)

Model: LED PANELS ROUND/12W
Tester: Petya Marinova
Temperature: 25.3Deg
Manufacturer: ELMARK

Number: 99LED972CW
Date: 2019-07-05 16:02
Humidity: 65.0%
Remarks: W1119X021_5736