

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: 99LED973

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

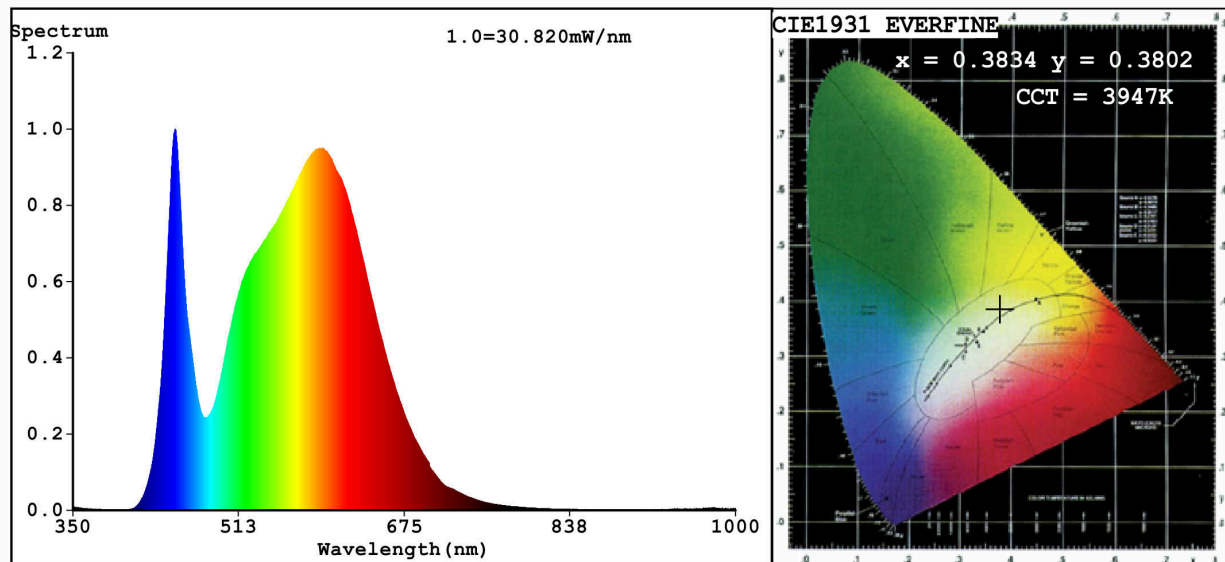
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	18	Energy efficiency class	F
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	1 600 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	18,0	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	81
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)	0,383 0,380	
Parameters for directional light sources:				
Peak luminous intensity (cd)	450	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	5	Survival factor	0,50	
the lumen maintenance factor	0,93			
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ_1)	0,40	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: $x=0.3834$ $y=0.3802$ / $u'=0.2257$ $v'=0.5035$
 CCT=3947K (Duv=0.0007) Dominant WL:Ld =578.9nm WL:Lc = --nm Purity=29.1%
 Ratio:R=18.3% G=78.4% B=3.3%; Peak WL:Lp=450.3nm FWHM=22.8nm
 Render Index:Ra=81.9

R1 =80	R2 =88	R3 =94	R4 =81	R5 =80	R6 =83	R7 =86
R8 =64	R9 =5	R10=71	R11=80	R12=60	R13=82	R14=96
						R15=74

Photo Parameters:

Flux = 1676 lm Eff. : 92.71 lm/W Fe = 5.067 W

Electrical parameters:

V = 220.01 V I = 0.1714 A P = 18.08 W PF = 0.4794
 WHITE:ANSI_4000K

Status: Integral T = 31 ms Ip = 45648 (70%)

Model:LED PANEL SQUARE
 Tester:Atanas DAKOV
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED973
 Date:2020-10-06 13:34:06
 Humidity:65.0%
 Remarks:7060