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: 99LED969

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

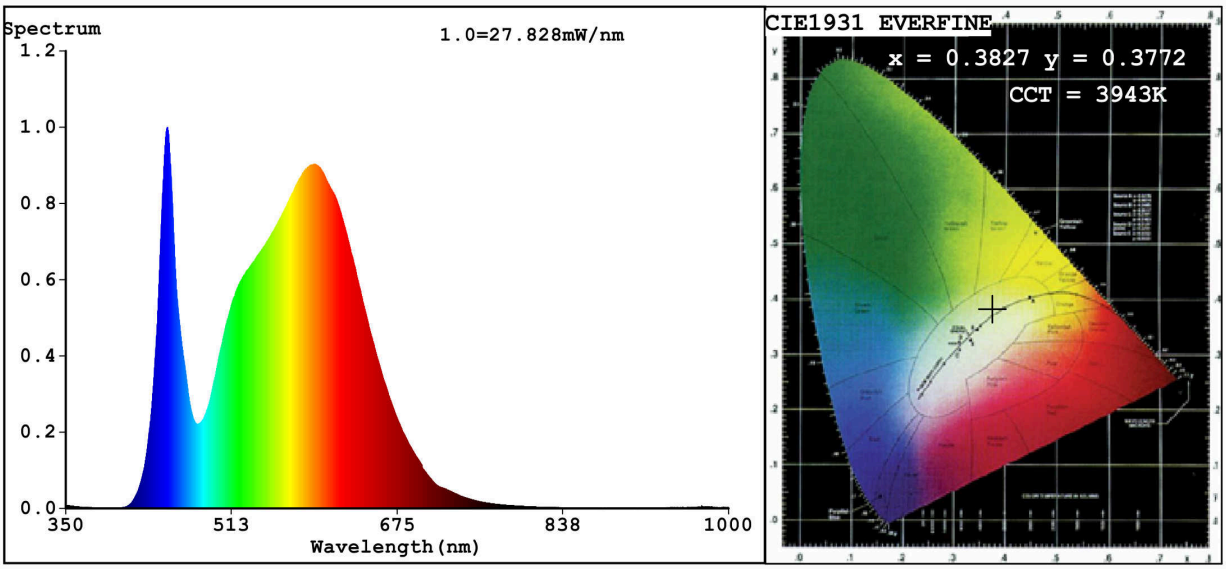
Parameter		Value	Parameter	Value
General product parameters:				
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer		18	Energy efficiency class	F
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)		1 400 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		17,7	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	81
Outer dimensions without separate control gear, lighting control	Height	220	Spectral power distribution in the range 250 nm to 800 nm, at full-load	See image in last page
	Width	220		
	Depth	32		

parts and non-lighting control parts, if any (millimetre)				
Claim of equivalent power[(a)]		-	If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,382 0,377
Parameters for directional light sources:				
Peak luminous intensity (cd)		472	Beam angle in degrees, or the range of beam angles that can be set	117
Parameters for LED and OLED light sources:				
R9 colour rendering index value		5	Survival factor	0,50
the lumen maintenance factor		0,90		
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ1)		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=0.3827 y=0.3772/u'=0.2264 v'=0.5021

CCT=3943K(Duv=-0.0004) Dominant WL:Ld =579.5nm WL:Lc = --nm Purity=28.0%

Ratio:R=18.4% G=78.3% B=3.3%¡¡Peak WL:Lp=449.6nm FWHM=21.4nm

Render Index:Ra=81.9

R1 =80	R2 =88	R3 =93	R4 =81	R5 =80	R6 =83	R7 =85	
R8 =64	R9 =5	R10=71	R11=80	R12=61	R13=82	R14=96	R15=74

Photo Parameters:

Flux = 1426 lm Eff. : 80.36 lm/W Fe = 4.318 W

Electrical parameters:

V = 219.92 V I = 0.1706 A P = 17.74 W PF = 0.4730

WHITE:ANSI_4000K

Status: Integral T = 30 ms Ip = 37043 (57%)

Model:LED PANEL SQUARE	Number:99LED969
Tester:Atanas DAKOV	Date:2021-03-18 09:00:27
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:7455