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: 99LED963

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:	Yes		
Anti-glare shield:	No	Dimmable:	No

Product parameters

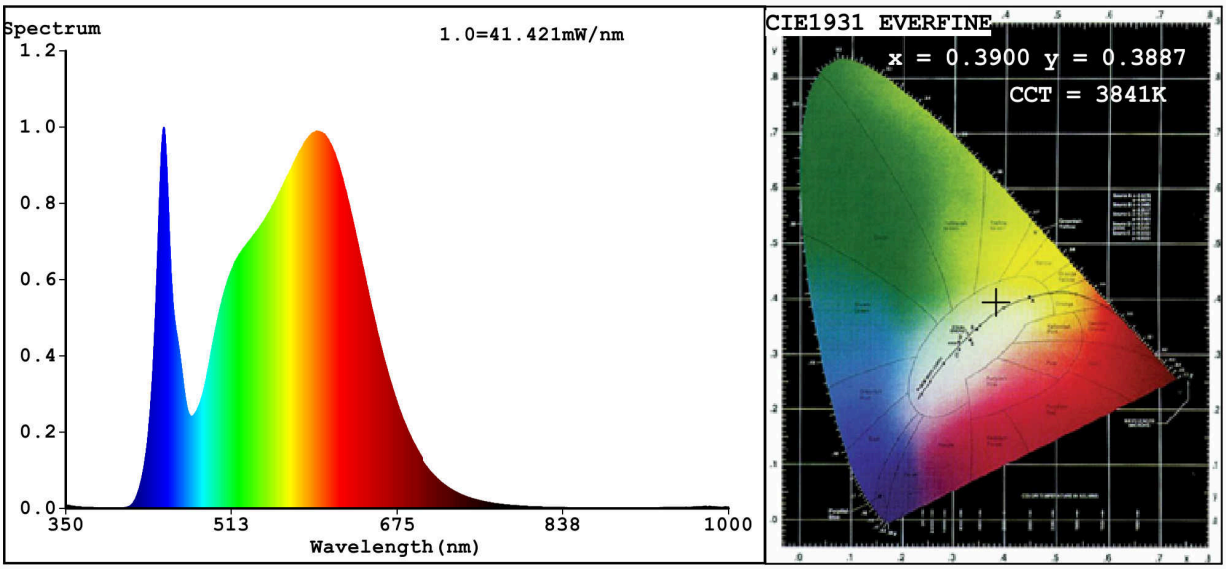
Parameter		Value	Parameter	Value
General product parameters:				
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer		24	Energy efficiency class	F
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)		2 000 in Sphere (360°)	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		24,0	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	83
Outer dimensions without separate control gear, lighting control	Height	200	Spectral power distribution in the range 250 nm to 800 nm, at full-load	See image in last page
	Width	168		
	Depth	25		

parts and non-lighting control parts, if any (millimetre)				
Claim of equivalent power[(a)]		-	If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,390 0,388
Parameters for directional light sources:				
Peak luminous intensity (cd)		697	Beam angle in degrees, or the range of beam angles that can be set	110
Parameters for LED and OLED light sources:				
R9 colour rendering index value		10	Survival factor	1,00
the lumen maintenance factor		0,40		
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ1)		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)	0,4

[(a)] '-' : not applicable;

[(b)] '-' : not applicable;

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate:x=0.3900 y=0.3887/u'=0.2266 v'=0.5082

CCT=3841K(Duv=0.0028) Dominant WL:Ld =578.3nm WL:Lc = --nm Purity=33.7%

Ratio:R=18.8% G=77.9% B=3.3%¡¡Peak WL:Lp=445.9nm FWHM=19.1nm

Render Index:Ra=83.7

R1 =82	R2 =88	R3 =95	R4 =84	R5 =82	R6 =85	R7 =87	
R8 =66	R9 =10	R10=74	R11=84	R12=68	R13=83	R14=97	R15=75

Photo Parameters:

Flux = 2357 lm Eff. : 114.66 lm/W Fe = 7.116 W

Electrical parameters:

V = 219.95 V I = 0.1781 A P = 20.56 W PF = 0.5250

WHITE:ANSI_4000K

~~Status: Integral T = 27 ms Ip = 52392 (80%)~~

Model:LED PANEL ROUND	Number:99LED963
Tester:Atanas DAKOV	Date:2021-01-14 13:49:14
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:7174