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: 99LED963CW

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

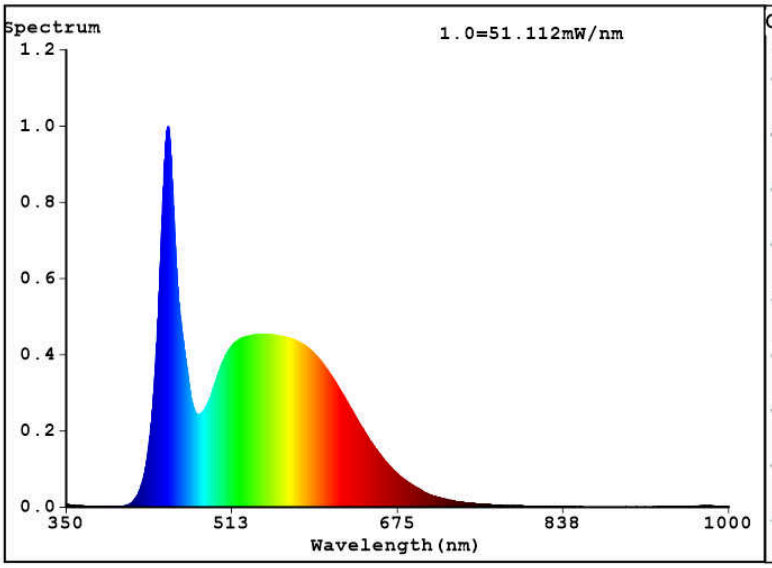
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	24	Energy efficiency class	F
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)	1 500 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	6 500
On-mode power (P_{on}), expressed in W	17,4	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 separate control gear, lighting control — Height	175	Spectral power distribution in the range 250 nm to 800 nm, at full-load	See image in last page
Width	25		
Depth	25		

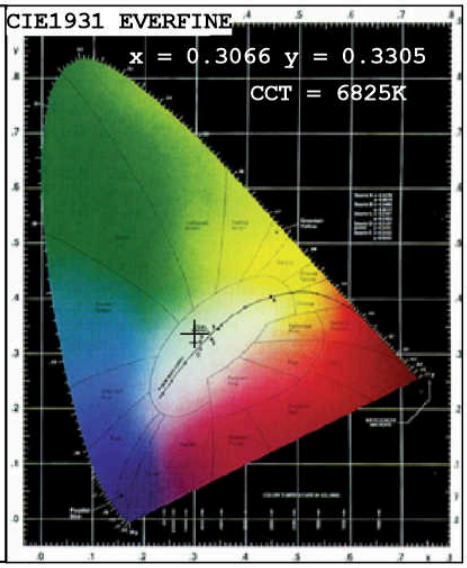
parts and non-lighting control parts, if any (millimetre)				
Claim of equivalent power[(a)]		-	If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,306 0,330
Parameters for directional light sources:				
Peak luminous intensity (cd)		441	Beam angle in degrees, or the range of beam angles that can be set	112
Parameters for LED and OLED light sources:				
R9 colour rendering index value		2	Survival factor	0,50
the lumen maintenance factor		0,95		
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)		0,5	Stroboscopic effect metric (SVM)	0,2

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

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

Spectrum Test Report





Color Parameters:

Chromaticity Coordinate:x=0.3066 y=0.3305/u'=0.1931 v'=0.4682

CCT=6825K(Duv=0.0071) Dominant WL:Ld =490.4nm Purity=9.2%

Ratio:R=12.7% G=81.4% B=5.8%¡¡Peak WL:Lp=449.9nm FWHM=21.9nm

Render Index:Ra=82.8

R1 =80	R2 =87	R3 =91	R4 =82	R5 =81	R6 =82	R7 =89	
R8 =69	R9 =2	R10=69	R11=82	R12=59	R13=82	R14=96	R15=74

Photo Parameters:

Flux = 1510 lm Eff. : 86.73 lm/W Fe = 4.893 W

Electrical parameters:

V = 229.82 V I = 0.1417 A P = 17.41 W PF = 0.5348

WHITE:ANSI_6500K

Status: Integral T = 19 ms Ip = 53648 (82%)

Model:LED PANEL ROUND ECO/24W	Number:99LED963CW
Tester:Petya Marinova	Date:2018-11-13 09:08
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:27Q39118048_4806