

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: 99LED963WW

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

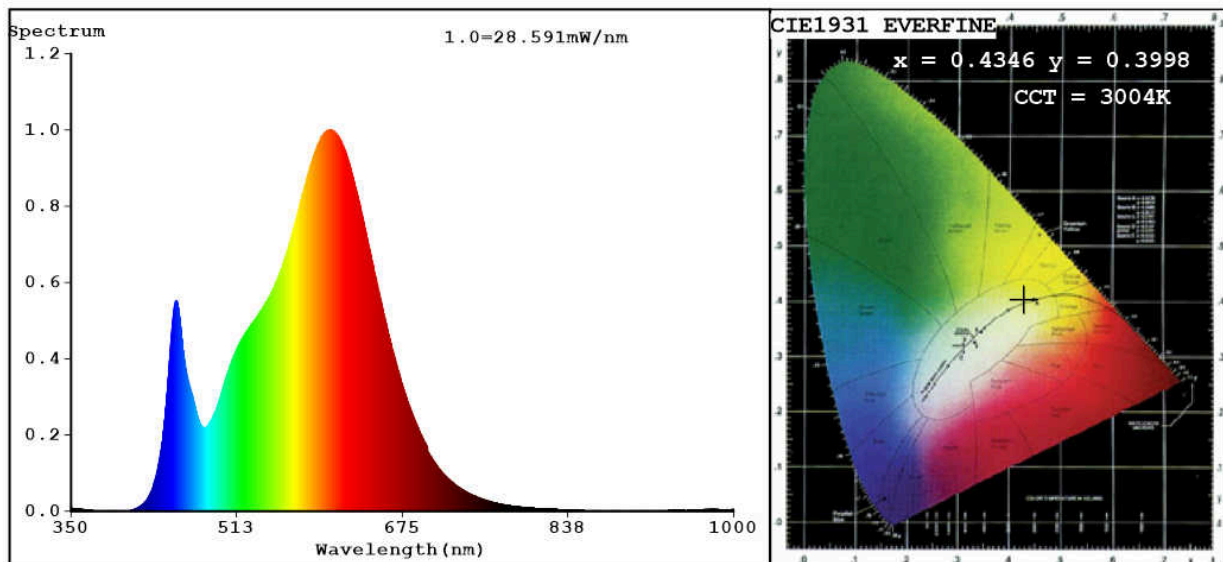
Product parameters

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 (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	1 500 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	3 000
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	84
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)	0,434 0,399	
Parameters for directional light sources:				
Peak luminous intensity (cd)	482	Beam angle in degrees, or the range of beam angles that can be set	105	
Parameters for LED and OLED light sources:				
R9 colour rendering index value	14	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)	0,5	Stroboscopic effect metric (SVM)	0,3	

(a) '-': not applicable;

(b) '-': not applicable;

Spectrum Test Report**Color Parameters:**Chromaticity Coordinate: $x=0.4346$ $y=0.3998$ / $u'=0.2509$ $v'=0.5193$

CCT=3004K(Duv=-0.0014) Dominant WL:Ld =583.3nm Purity=50.4%

Ratio:R=23.2% G=74.0% B=2.8%; Peak WL:Lp=604.1nm FWHM=128.3nm

Render Index:Ra=84.2

R1 =83	R2 =93	R3 =95	R4 =82	R5 =84	R6 =92	R7 =83	
R8 =61	R9 =14	R10=85	R11=82	R12=75	R13=86	R14=98	R15=76

Photo Parameters:

Flux = 1390 lm Eff. : 77.42 lm/W Fe = 4.324 W

Electrical parameters:

V = 229.86 V I = 0.1420 A P = 17.96 W PF = 0.5501

WHITE:ANSI_3000K

Status: Integral T = 29 ms Ip = 52398 (80%)

Model:LED PANEL ROUND OM/24W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:99LED963WW
Date:2018-11-09 13:57
Humidity:65.0%
Remarks:27Q39118048_5047