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: 99LED617IP65E

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

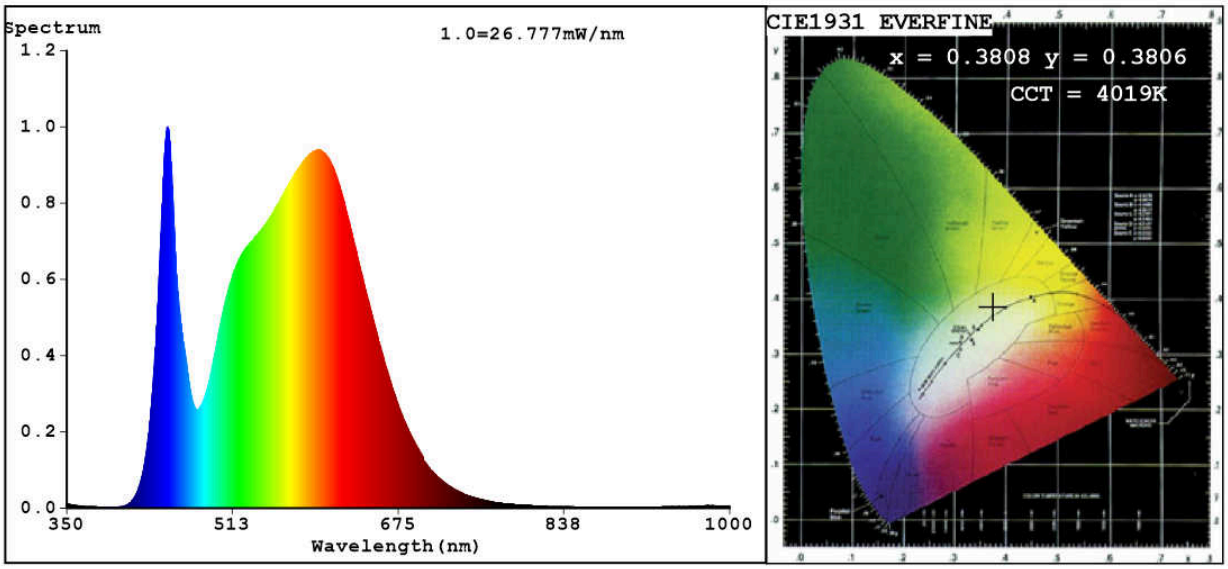
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	18	Energy efficiency class	G
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)	1 500 in 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	20,0	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 — Height	225	Spectral power distribution in the	See image in last page
Outer dimensions without — Width	27		
Outer dimensions without — Depth	27		

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)	0,380 0,380
Parameters for directional light sources:				
Peak luminous intensity (cd)		448	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		11	Survival factor	0,50
the lumen maintenance factor		0,93		
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)		0,6	Stroboscopic effect metric (SVM)	0,2

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

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

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate:x=0.3808 y=0.3806/u'=0.2238 v'=0.5033

CCT=4019K(Duv=0.0017) Dominant WL:Ld =578.1nm Purity=28.5%

Ratio:R=18.3% G=78.3% B=3.5%¡¡Peak WL:Lp=448.6nm FWHM=22.7nm

Render Index:Ra=83.5

R1 =82	R2 =88	R3 =94	R4 =84	R5 =82	R6 =85	R7 =87	
R8 =66	R9 =11	R10=73	R11=83	R12=64	R13=83	R14=97	R15=76

Photo Parameters:

Flux = 1471 lm Eff. : 73.27 lm/W Fe = 4.494 W

Electrical parameters:

V = 229.87 V I = 0.1742 A P = 20.07 W PF = 0.5013

WHITE:ANSI_4000K

Status: Integral T = 25 ms Ip = 39954 (61%)

Model:WATERPROOF LED PANEL ROUND/18W Number:99LED617IP65
Tester:Petya Marinova Date:2018-11-26 11:35
Temperature:25.3Deg Humidity:65.0%
Manufacturer:ELMARK Remarks:O18V034B_5081