

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: 9615LEDP

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

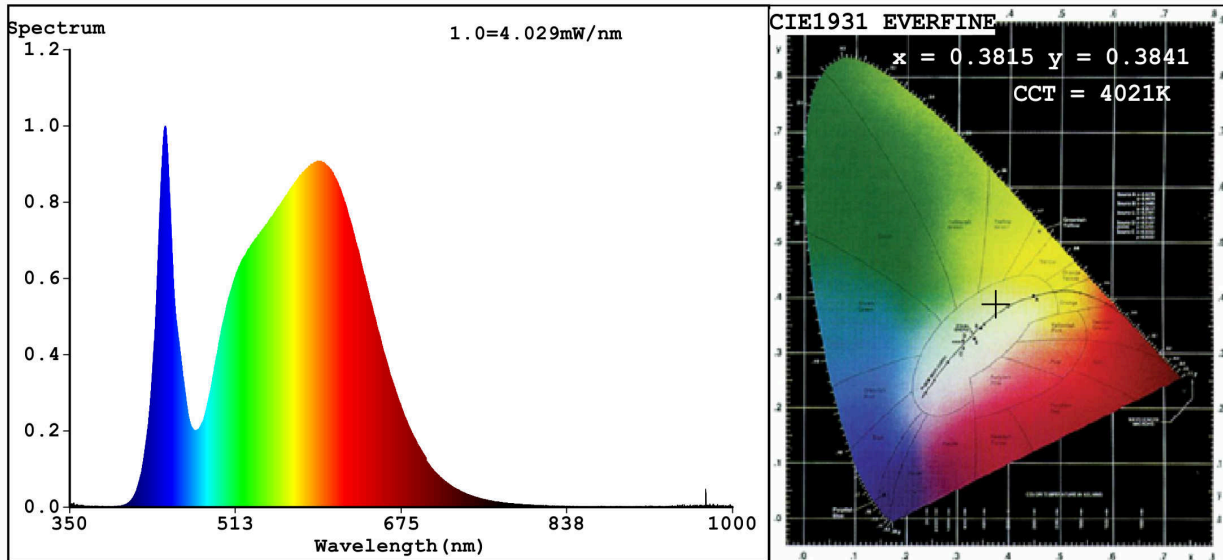
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	3	Energy efficiency class	G
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	210 in Narrow cone (90°)	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	3,3	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	Height	Spectral power distribution in the	See image in last page
	Width		
	Depth		

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)	0,381 0,384	
Parameters for directional light sources:				
Peak luminous intensity (cd)	443	Beam angle in degrees, or the range of beam angles that can be set	45	
Parameters for LED and OLED light sources:				
R9 colour rendering index value	9	Survival factor	0,50	
the lumen maintenance factor	0,93			
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ 1)	0,85	Colour consistency in McAdam ellipses	0	
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: $x=0.3815$ $y=0.3841$ / $u'=0.2229$ $v'=0.5049$

CCT=4021K(Duv=0.0031) Dominant WL:Ld =577.4nm Purity=29.8%

Ratio:R=18.0% G=78.8% B=3.2%; Peak WL:Lp=443.8nm FWHM=20.2nm

Render Index:Ra=82.0

R1 =80	R2 =86	R3 =92	R4 =83	R5 =81	R6 =82	R7 =87	
R8 =66	R9 =9	R10=67	R11=83	R12=66	R13=81	R14=95	R15=74

Photo Parameters:

Flux = 218.2 lm Eff. : 64.41 lm/W Fe = 663.7 mW

Electrical parameters:

V = 230.03 V I = 0.01731 A P = 3.387 W PF = 0.8506

WHITE:ANSI_4000K

Status: Integral T = 252 ms Ip = 47063 (72%)

Model:GRF9615 LED/3W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:9615LEDP
Date:2018-04-25 10:49
Humidity:65.0%
Remarks:ESPL20180130_4454