

# 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:** 96GRFLED02/GR

## 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

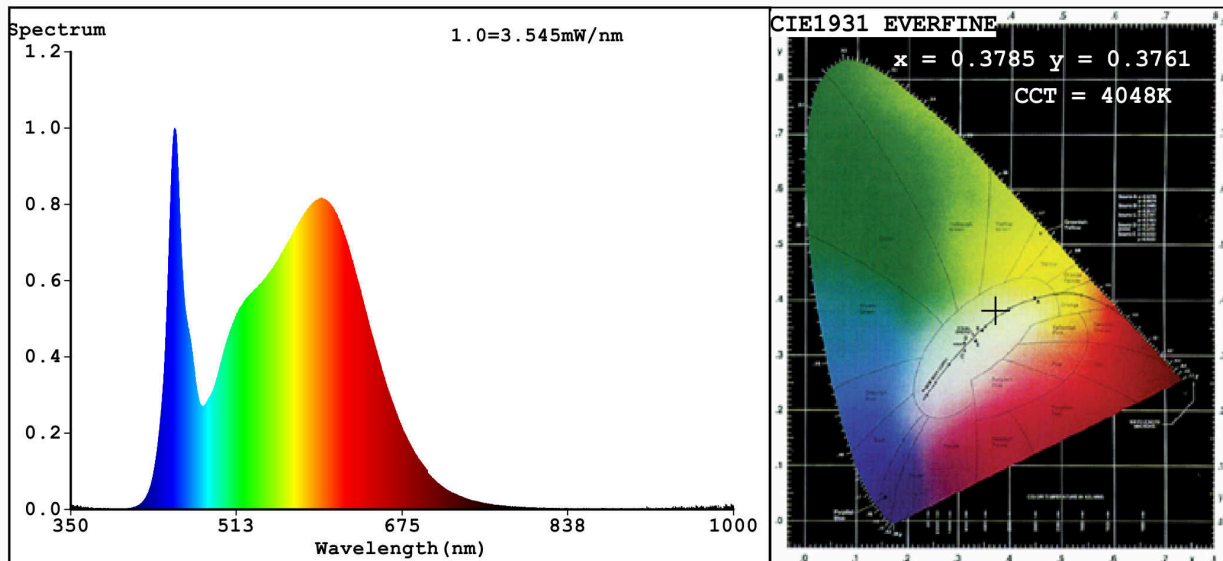
Parameter	Value	Parameter	Value
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	2	Energy efficiency class	G
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	160 in Nar-row 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	2,6	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 <sup>(a)</sup>	-	If yes, equivalent power (W)	-	
		Chromaticity coordinates (x and y)	0,378 0,376	
<b>Parameters for directional light sources:</b>				
Peak luminous intensity (cd)	452	Beam angle in degrees, or the range of beam angles that can be set	30	
<b>Parameters for LED and OLED light sources:</b>				
R9 colour rendering index value	13	Survival factor	0,00	
the lumen maintenance factor	0,00			
<b>Parameters for LED and OLED mains light sources:</b>				
displacement factor (cos $\phi_1$ )	0,50	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:  $x=0.3785$   $y=0.3761$   $u'=0.2240$   $v'=0.5010$   
 CCT=4048K (Duv=0.0003) Dominant WL:  $\lambda_d = 578.7\text{nm}$  WL:  $\lambda_c = \text{--nm}$  Purity=26.5%  
 Ratio: R=18.4% G=77.7% B=4.0% Peak WL:  $\lambda_p = 452.0\text{nm}$  FWHM=19.8nm  
 Render Index: Ra=84.5

R1 =83	R2 =92	R3 =96	R4 =83	R5 =83	R6 =88	R7 =86
R8 =65	R9 =13	R10=80	R11=82	R12=63	R13=86	R14=98 R15=77

### Photo Parameters:

Flux = 166.3 lm Eff. : 62.36 lm/W  $\Phi_e$  = 508.3 mW

### Electrical parameters:

V = 220.04 V I = 0.02199 A P = 2.666 W PF = 0.5510  
 WHITE:ANSI\_4000K

Status: Integral T = 280 ms  $I_p$  = 31855 (49%)

Model:LED GARDEN LIGHTING  
 Tester:Atanas DAKOV  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:96GRFLED02  
 Date:2020-01-22 16:37:32  
 Humidity:65.0%  
 Remarks:6356