

# 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:** 96GRF51/106012

## Type of light source:

Lighting technology used:	LED	Non-directional or directional:	DLS
Light source cap-type (or other electric interface)	Integrated COB		
Mains or non-mains:	NMLS	Connected light source (CLS):	No
Colour-tuneable light source:	No	Envelope:	-
High luminance light source:	Yes		
Anti-glare shield:	No	Dimmable:	No

## Product parameters

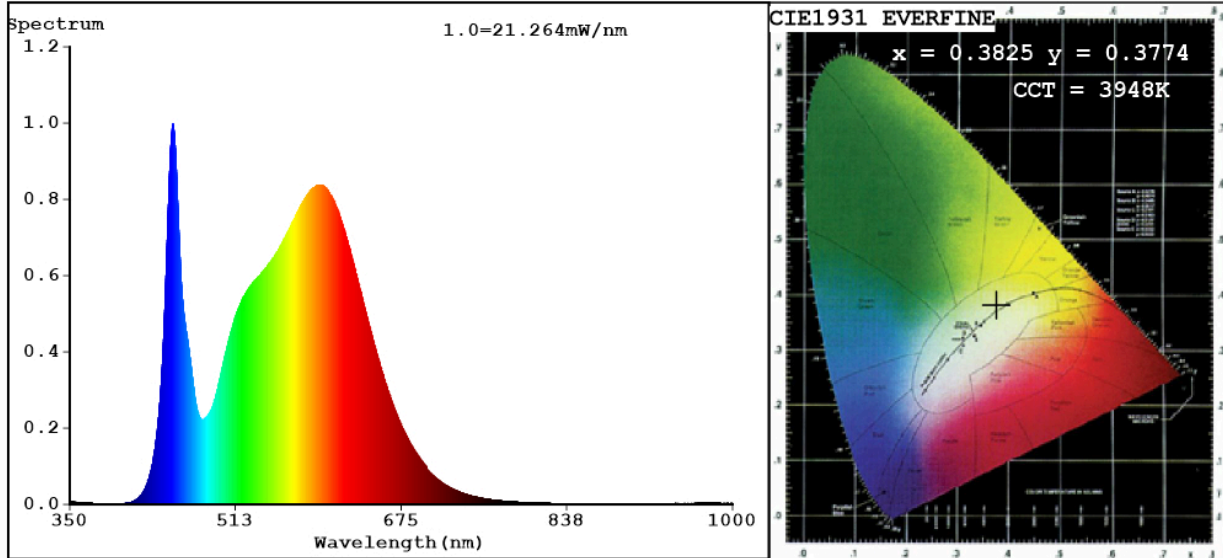
Parameter	Value	Parameter	Value
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	10	Energy efficiency class	F
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	900 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	10,0	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	82
Outer dimensions without separate control gear, lighting control	Height	230	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	88	
	Depth	88	
			See image in last page

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)	0,382 0,377
<b>Parameters for directional light sources:</b>			
Peak luminous intensity (cd)	451	Beam angle in degrees, or the range of beam angles that can be set	60
<b>Parameters for LED and OLED light sources:</b>			
R9 colour rendering index value	4	Survival factor	0,50
the lumen maintenance factor	0,95		

(a) : not applicable;

(b) : not applicable;

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3825$   $y=0.3774$  /  $u'=0.2262$   $v'=0.5022$   
 CCT=3948K (Duv=-0.0003) Dominant WL:Ld =579.4nm WL:Lc = --nm Purity=28.1%  
 Ratio:R=18.4% G=78.1% B=3.5% ; Peak WL:Lp=451.3nm FWHM=19.2nm  
 Render Index:Ra=82.4

R1 =81    R2 =89    R3 =95    R4 =81    R5 =81    R6 =85    R7 =85  
 R8 =63    R9 =4    R10=74    R11=80    R12=60    R13=83    R14=97    R15=74

**Photo Parameters:**

Flux = 1003 lm    Eff. : 114.89 lm/W    Fe = 3.019 W

**Electrical parameters:**

V = 12.263 V    I = 0.7119 A    P = 8.730 W PF = 1.000

WHITE:ANSI\_4000K

Status: Integral T = 54 ms    Ip = 47354 (72%)

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

Number:96GRF51 106012  
 Date:2022-08-31 13:59:03  
 Humidity:65.0%  
 Remarks:8841