

# 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:** 96GRF331/2BL

## 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

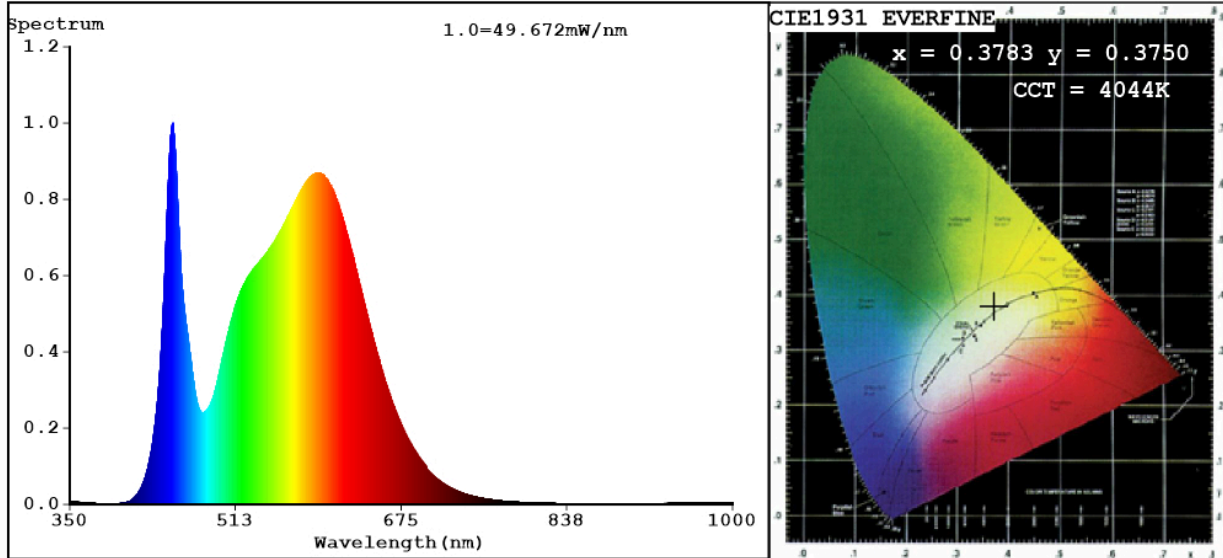
Parameter	Value	Parameter	Value
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	30	Energy efficiency class	F
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	2 600 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	27,9	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	81
Outer dimensions without separate control gear, lighting control	Height	300	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	120	
	Depth	120	
			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)	0,378 0,375
<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	2	Survival factor	0,50
the lumen maintenance factor	0,95		
<b>Parameters for LED and OLED mains light sources:</b>			
displacement factor (cos $\phi_1$ )	0,50	Colour consistency in McAdam ellipses	6
Claims that an LED light source replaces a fluorescent light source without integrated ballast of a particular wattage.	Yes <sup>(b)</sup>	If yes then replacement claim (W)	270
Flicker metric (Pst LM)	0,4	Stroboscopic effect metric (SVM)	0,2

(a) : not applicable;

(b) : not applicable;

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3783$   $y=0.3750$  /  $u'=0.2244$   $v'=0.5005$   
 CCT=4044K (Duv=-0.0002) Dominant WL:Ld =579.0nm WL:Lc = --nm Purity=26.1%  
 Ratio:R=18.1% G=78.4% B=3.5%; Peak WL:Lp=451.3nm FWHM=21.7nm  
 Render Index:Ra=81.9

R1 =80    R2 =88    R3 =94    R4 =81    R5 =80    R6 =84    R7 =85  
 R8 =62    R9 =2    R10=72    R11=80    R12=60    R13=82    R14=97    R15=74

**Photo Parameters:**

Flux = 2458 lm    Eff. : 88.08 lm/W    Fe = 7.416 W

**Electrical parameters:**

V = 229.50 V    I = 0.2466 A    P = 27.91 W PF = 0.4932  
 WHITE:ANSI\_4000K

Status: Integral T = 24 ms    Ip = 51105 (78%)

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

Number:96GRF331 2BL  
 Date:2022-09-02 13:21:38  
 Humidity:65.0%  
 Remarks:8841