

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: 96GRF50/524220

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:	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

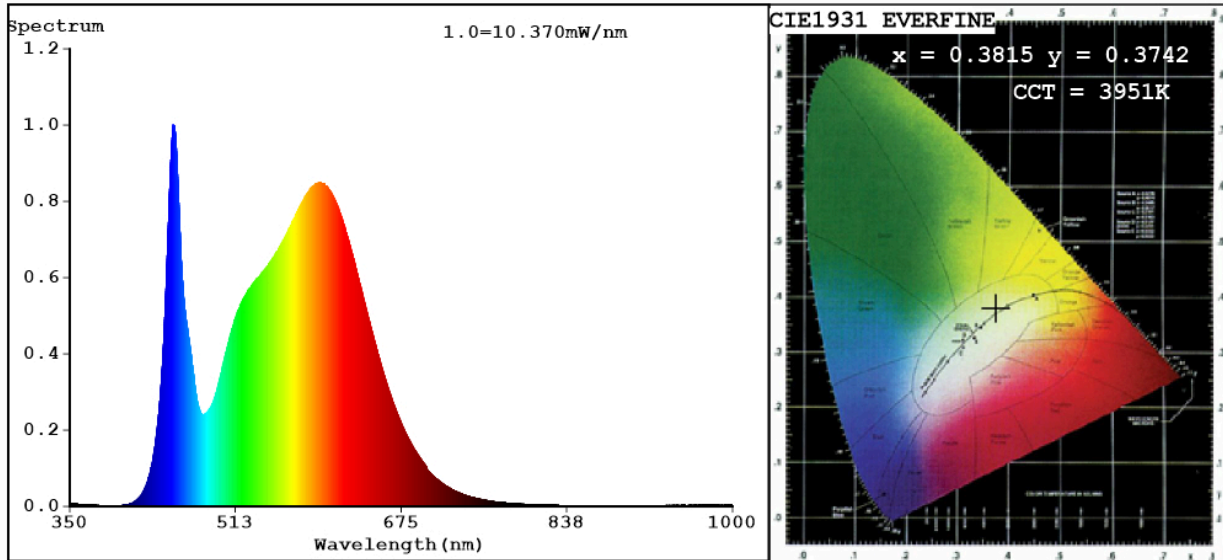
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	5	Energy efficiency class	F
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	430 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	4,7	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 separate control gear, lighting control	Height	245	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	43	
	Depth	43	
			See image in last page

parts and non-lighting control parts, if any (millimetre)			
Claim of equivalent power ^(a)	-	If yes, equivalent power (W)	-
		Chromaticity coordinates (x and y)	0,381 0,374
Parameters for directional light sources:			
Peak luminous intensity (cd)	451	Beam angle in degrees, or the range of beam angles that can be set	24
Parameters for LED and OLED light sources:			
R9 colour rendering index value	9	Survival factor	0,50
the lumen maintenance factor	0,95		
Parameters for LED and OLED mains light sources:			
displacement factor (cos ϕ 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 ^(b)	If yes then replacement claim (W)	45
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: $x=0.3815$ $y=0.3742$ / $u'=0.2268$ $v'=0.5006$
 CCT=3951K(Duv=-0.0015) Dominant WL:Ld =580.1nm WL:Lc = --nm Purity=26.8%
 Ratio:R=18.6% G=77.7% B=3.6% ; Peak WL:Lp=451.6nm FWHM=20.6nm
 Render Index:Ra=83.3

R1 =82 R2 =90 R3 =95 R4 =82 R5 =82 R6 =86 R7 =85
 R8 =64 R9 =9 R10=76 R11=81 R12=62 R13=84 R14=98 R15=76

Photo Parameters:

Flux = 495.2 lm Eff. : 105.23 lm/W Fe = 1.509 W

Electrical parameters:

V = 229.52 V I = 0.04129 A P = 4.706 W PF = 0.4965
 WHITE:ANSI_4000K

Status: Integral T = 93 ms Ip = 40314 (62%)

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

Number:96GRF50 524220
 Date:2022-09-02 15:43:38
 Humidity:65.0%
 Remarks:8841