

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: 96GRF51/1060220

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

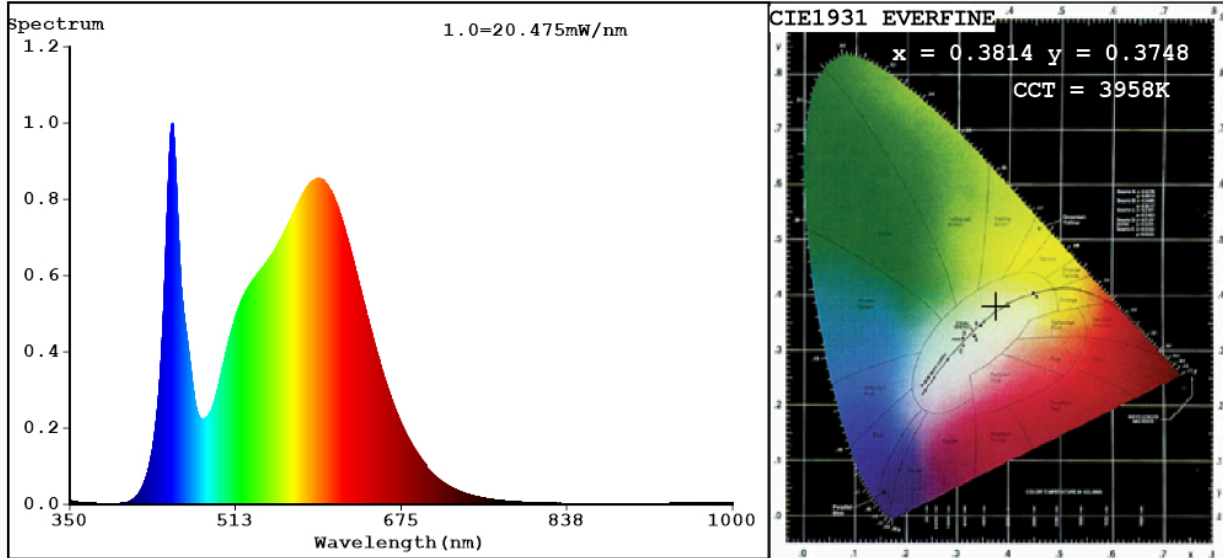
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	10	Energy efficiency class	F
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	880 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	9,5	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	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 ^(a)	-	If yes, equivalent power (W)	-
		Chromaticity coordinates (x and y)	0,381 0,374
Parameters for directional light sources:			
Peak luminous intensity (cd)	450	Beam angle in degrees, or the range of beam angles that can be set	60
Parameters for LED and OLED light sources:			
R9 colour rendering index value	3	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)	90
Flicker metric (Pst LM)	0,5	Stroboscopic effect metric (SVM)	0,2

(a) : not applicable;

(b) : not applicable;

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3814$ $y=0.3748$ / $u'=0.2266$ $v'=0.5009$
 CCT=3958K (Duv=-0.0012) Dominant WL:Ld =579.9nm WL:Lc = --nm Purity=26.9%
 Ratio:R=18.4% G=78.2% B=3.4% ; Peak WL:Lp=450.6nm FWHM=20.3nm
 Render Index:Ra=81.8

R1 =80 R2 =88 R3 =94 R4 =81 R5 =80 R6 =84 R7 =85
 R8 =62 R9 =3 R10=72 R11=79 R12=60 R13=82 R14=97 R15=74

Photo Parameters:

Flux = 983.1 lm Eff. : 102.67 lm/W Fe = 2.975 W

Electrical parameters:

V = 229.53 V I = 0.08833 A P = 9.576 W PF = 0.4723

WHITE:ANSI_4000K

Status: Integral T = 47 ms Ip = 40508 (62%)

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

Number:96GRF51 1060220
 Date:2022-09-02 15:59:19
 Humidity:65.0%
 Remarks:8841