

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: 96GRF50/52412

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: | No | | |
| Anti-glare shield: | No | Dimmable: | No |

Product parameters

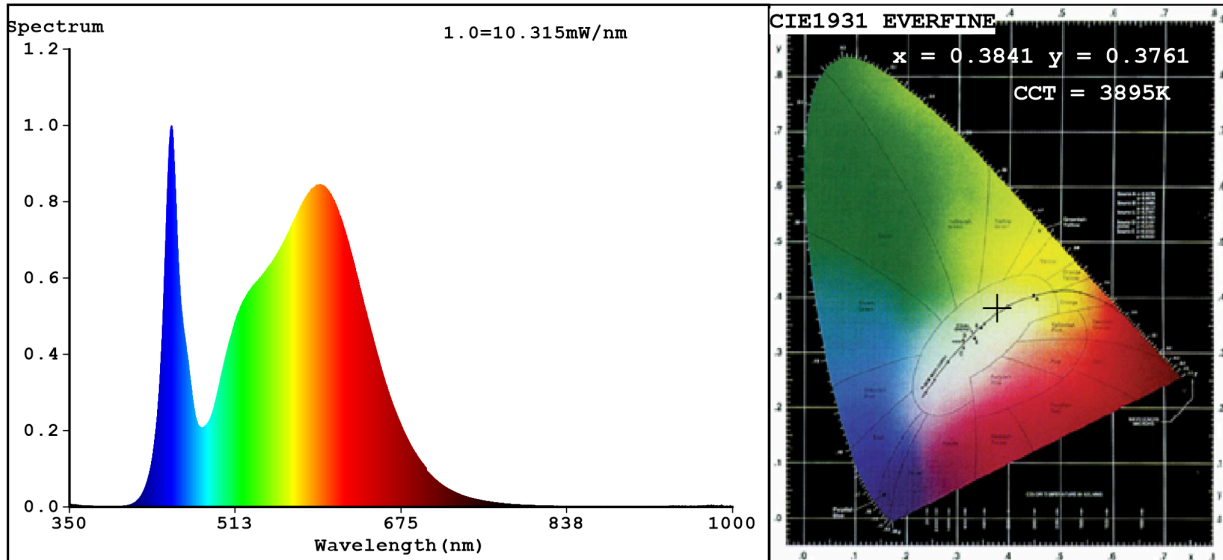
| Parameter | Value | Parameter | Value |
|--|--------------------------|--|---|
| General product parameters: | | | |
| Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer | 5 | Energy efficiency class | F |
| Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°) | 450 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 | 4,6 | 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 | 82 |
| 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) | 0,384 0,376 |
| Parameters for directional light sources: | | | |
| Peak luminous intensity (cd) | 450 | 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 | 5 | Survival factor | 0,50 |
| the lumen maintenance factor | 0,95 | | |

(a) : not applicable;

(b) : not applicable;

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3841$ $y=0.3761$ / $u'=0.2278$ $v'=0.5019$
 CCT=3895K (Duv=-0.0013) Dominant WL:Ld =580.2nm WL:Lc = --nm Purity=28.2%
 Ratio:R=18.7% G=78.0% B=3.3% ; Peak WL:Lp=450.3nm FWHM=19.0nm
 Render Index:Ra=82.3

R1 =81 R2 =89 R3 =94 R4 =81 R5 =81 R6 =84 R7 =85
 R8 =63 R9 =5 R10=73 R11=80 R12=61 R13=83 R14=97 R15=75

Photo Parameters:

Flux = 488.1 lm Eff. : 105.14 lm/W Fe = 1.477 W

Electrical parameters:

V = 12.080 V I = 0.3843 A P = 4.642 W PF = 1.000

WHITE:ANSI_4000K

Status: Integral T = 107 ms Ip = 50848 (78%)

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

Number:96GRF50 52412
 Date:2022-09-16 10:42:20
 Humidity:65.0%
 Remarks:8841