

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: 98MADRID200SMD

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

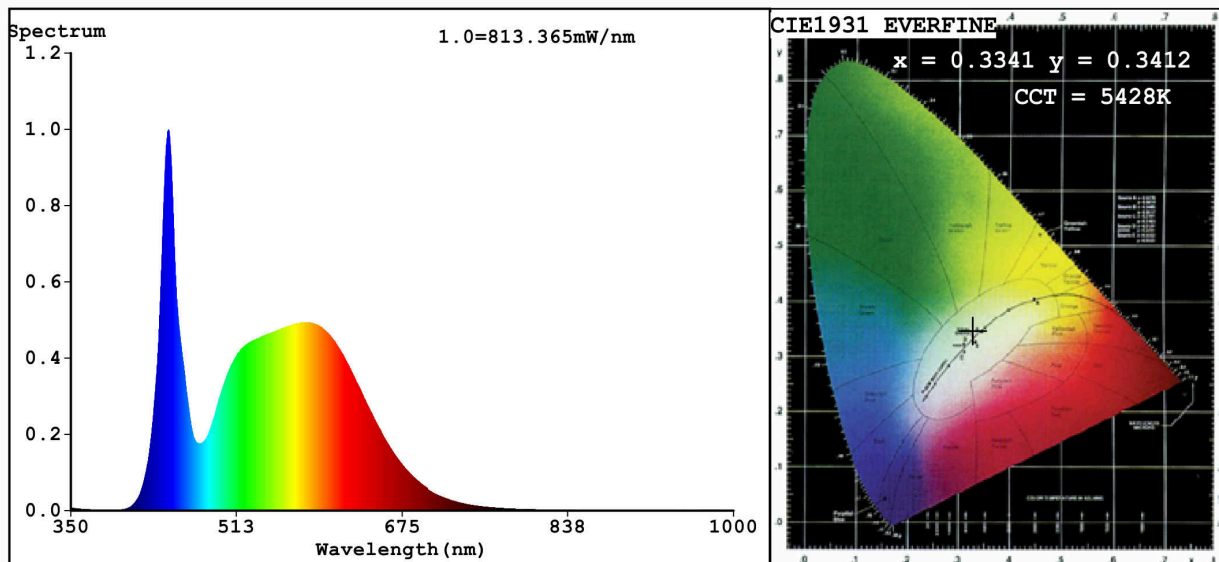
| Parameter | Value | Parameter | Value |
|--|-----------------------------|--|------------------------|
| General product parameters: | | | |
| Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer | 200 | Energy efficiency class | E |
| Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°) | 25 000 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 | 5 000 |
| On-mode power (P_{on}), expressed in W | 192,9 | 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 | 83 |
| Outer dimensions without | Height | Spectral power distribution in the | See image in last page |
| | Width | | |
| | Depth | | |

| | | | | |
|---|------|--|--------------------------------------|--|
| separate control gear, lighting control parts and non-lighting control parts, if any (millimetre) | | | range 250 nm to 800 nm, at full-load | |
| Claim of equivalent power ^(a) | - | If yes, equivalent power (W) | - | |
| | | Chromaticity coordinates (x and y) | 0,334 0,341 | |
| Parameters for directional light sources: | | | | |
| Peak luminous intensity (cd) | 445 | Beam angle in degrees, or the range of beam angles that can be set | 90 | |
| Parameters for LED and OLED light sources: | | | | |
| R9 colour rendering index value | 14 | Survival factor | 0,50 | |
| the lumen maintenance factor | 0,93 | | | |
| Parameters for LED and OLED mains light sources: | | | | |
| displacement factor (cos ϕ_1) | 0,90 | Colour consistency in McAdam ellipses | 1 | |
| Claims that an LED light source replaces a fluorescent light source without integrated ballast of a particular wattage. | -(b) | If yes then replacement claim (W) | - | |
| Flicker metric (Pst LM) | 0,0 | Stroboscopic effect metric (SVM) | 0,0 | |

(a) - : not applicable;

(b) - : not applicable;

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3341$ $y=0.3412$ $u'=0.2080$ $v'=0.4778$
CCT=5428K (Duv=-0.0007) Dominant WL:Ld =558.4nm WL:Lc = --nm Purity=2.6%
Ratio:R=15.2% G=80.3% B=4.5%; Peak WL:Lp=445.8nm FWHM=18.7nm
Render Index:Ra=83.1

| | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|
| R1 =83 | R2 =86 | R3 =88 | R4 =85 | R5 =84 | R6 =82 | R7 =86 |
| R8 =71 | R9 =14 | R10=67 | R11=86 | R12=67 | R13=83 | R14=93 |
| | | | | | | R15=78 |

Photo Parameters:

Flux = 25894 lm Eff. : 134.21 lm/W Fe = 83.07 W

Electrical parameters:

V = 219.64 V I = 0.8863 A P = 192.9 W PF = 0.9912
WHITE:ANSI_5700K

Status: Integral T = 1 ms Ip = 34020 (52%)

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

Number:98MADRID200SMD
Date:2021-03-19 10:53:36
Humidity:65.0%
Remarks:7533