

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: 93TLOM190W/BL

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

Product parameters

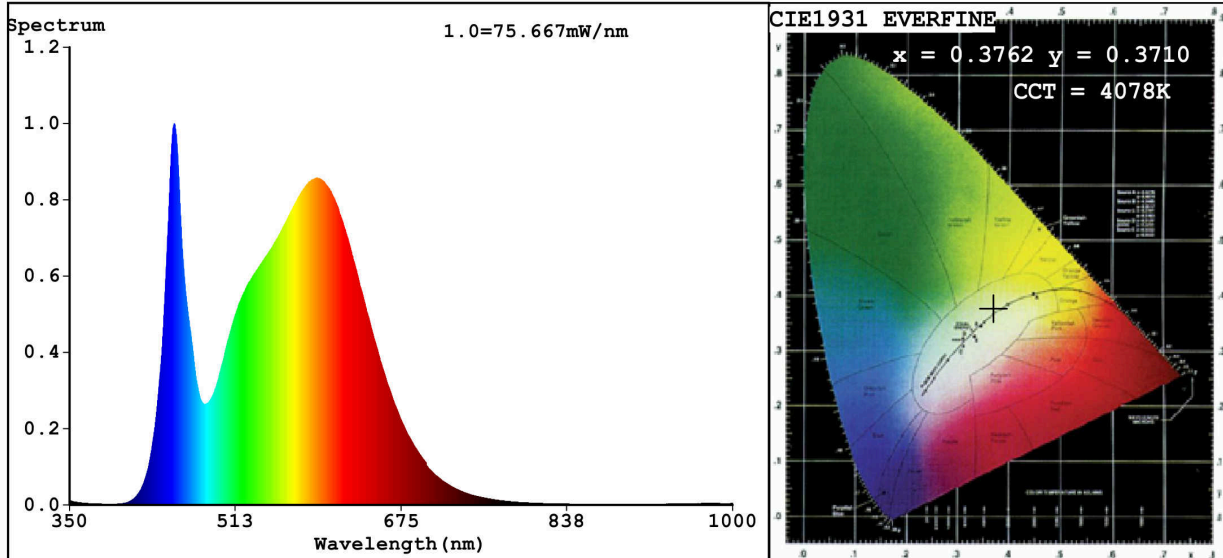
| Parameter | Value | Parameter | Value |
|--|----------------------------|--|------------------------|
| General product parameters: | | | |
| Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer | 30 | Energy efficiency class | F |
| Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°) | 3 000 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 | 4 000 |
| On-mode power (P_{on}), expressed in W | 28,2 | 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 | 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) | 0,376 0,371 |
| Parameters for directional light sources: | | | | |
| Peak luminous intensity (cd) | 452 | | 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 | 7 | | Survival factor | 0,50 |
| the lumen maintenance factor | 0,93 | | | |
| Parameters for LED and OLED mains light sources: | | | | |
| displacement factor (cos ϕ_1) | 0,50 | | Colour consistency in McAdam ellipses | 0 |
| 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: $x=0.3762$ $y=0.3710$ / $u'=0.2246$ $v'=0.4984$
 CCT=4078K(Duv=-0.0014) Dominant WL:Ld =579.6nm WL:Lc = --nm Purity=24.2%
 Ratio:R=18.1% G=78.1% B=3.8%; Peak WL:Lp=452.9nm FWHM=23.8nm
 Render Index:Ra=82.6

R1 =81 R2 =90 R3 =95 R4 =80 R5 =81 R6 =85 R7 =85
 R8 =64 R9 =7 R10=75 R11=79 R12=61 R13=83 R14=97 R15=76

Photo Parameters:

Flux = 3710 lm Eff. : 131.31 lm/W Fe = 11.39 W

Electrical parameters:

V = 220.05 V I = 0.2305 A P = 28.25 W PF = 0.5570

WHITE:ANSI_4000K

Status: Integral T = 22 ms Ip = 51259 (78%)

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

Number:93TLOM190W/WH
 Date:2020-07-30 08:56:42
 Humidity:65.0%
 Remarks:6855