

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: 99FM604020/GR

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

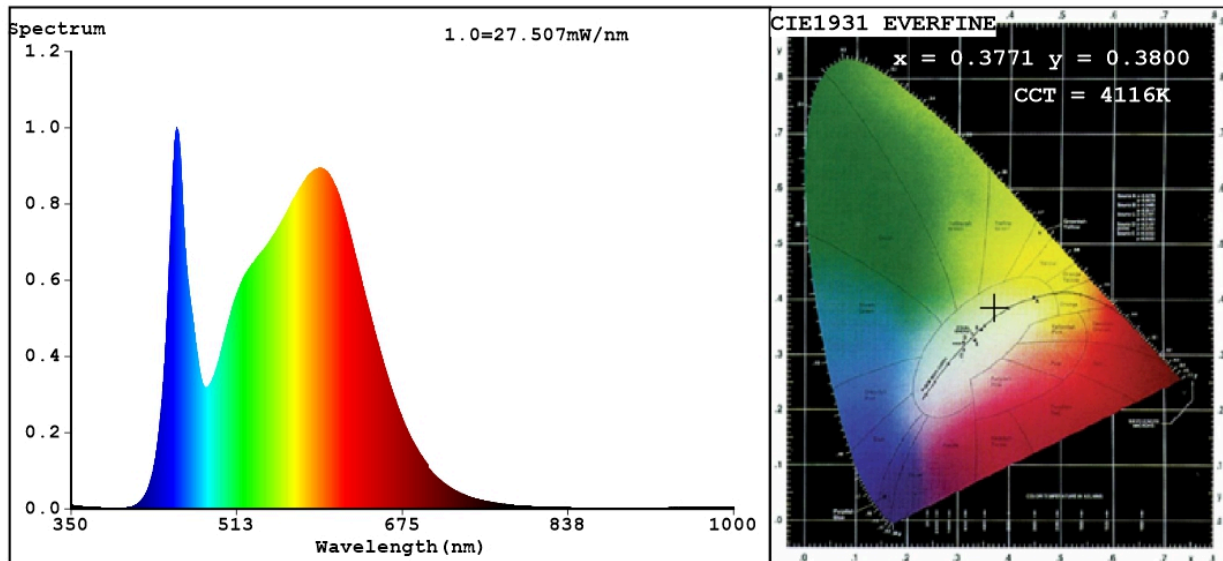
| Parameter | Value | Parameter | Value |
|--|----------------------------|--|------------------------|
| General product parameters: | | | |
| Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer | 20 | Energy efficiency class | F |
| Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°) | 1 500 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 | 24,0 | 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) | 0,377 0,380 | |
| Parameters for directional light sources: | | | | |
| Peak luminous intensity (cd) | 453 | 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 | 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 | 4 | |
| 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) | 0,5 | Stroboscopic effect metric (SVM) | 0,2 | |

(a) - : not applicable;

(b) - : not applicable;

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3771$ $y=0.3800$ $u'=0.2216$ $v'=0.5025$
 CCT=4116K (Duv=0.0025) Dominant WL: $L_d = 577.3nm$ WL: $L_c = --nm$ Purity=27.2%
 Ratio: R=17.9% G=78.2% B=4.0%; Peak WL: $L_p = 453.7nm$ FWHM=24.8nm
 Render Index: $R_a=83.2$ AvgR=76.5 TM30: $R_f=84$ $R_g=93$ $L_{av}=567.9nm$

| | | | | | | |
|--------|--------|--------|--------|--------|--------|---------------|
| R1 =81 | R2 =91 | R3 =96 | R4 =80 | R5 =81 | R6 =87 | R7 =86 |
| R8 =64 | R9 =7 | R10=78 | R11=79 | R12=60 | R13=84 | R14=98 R15=75 |

Photo Parameters:

Flux = 1430 lm Eff. : 57.21 lm/W $F_e = 4.338 W$

Electrical parameters:

V = 225.25 V I = 0.2178 A P = 24.99 W PF = 0.5094

WHITE: ANSI_4000K

Status: Integral T = 37 ms $I_p = 44723 (68\%)$

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

Number: 99FM604020
 Date: 2022-01-26 13:20:13
 Humidity: 65.0%
 Remarks: