

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: 98FLARE18/W

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 | 18 | 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°) | 1 431 in Nar-row 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 | 17,3 | 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 | 73 |
| Outer dimensions without separate control gear, lighting control | Height | Spectral power distribution in the range 250 nm to 800 nm, at full-load | See image in last page |
| | Width | | |
| | Depth | | |

| | | | | |
|---|-------|--|----------------|--|
| parts and non-lighting control parts, if any (millimetre) | | | | |
| Claim of equivalent power ^(a) | - | If yes, equivalent power (W) | - | |
| | | Chromaticity coordinates (x and y) | 0,372 0,370 | |
| Parameters for directional light sources: | | | | |
| Peak luminous intensity (cd) | 2 862 | Beam angle in degrees, or the range of beam angles that can be set | 35 | |
| Parameters for LED and OLED light sources: | | | | |
| R9 colour rendering index value | 0 | 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. | -(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;

Lightsource Test Report

Product Information

Product Number: JD-XQ4048S-18W

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3729$ $y=0.3703$ $u(u')=0.2227$ $v=0.3317$ $v'=0.4976$

CCT: $T_c=4166K$ ($duv=-0.00080$)

Color Ratio: $R=0.167$ $G=0.807$ $B=0.026$

Peak Wavelength: 449nm

Half Bandwidth: 22.4nm

Dominant Wavelength: 578.9nm

Color Purity: 0.230

CRI: R_i : $R_a=73.7$

$R_1=72$

$R_2=80$

$R_3=85$

$R_4=73$

$R_5=71$

$R_6=71$

$R_7=82$

$R_8=56$

$R_9=0$

$R_{10}=50$

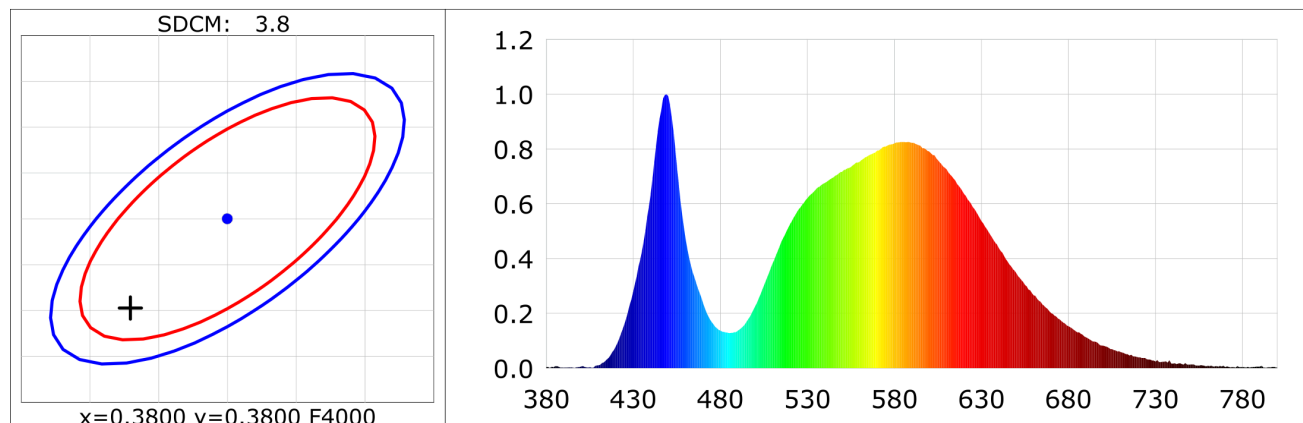
$R_{11}=69$

$R_{12}=44$

$R_{13}=73$

$R_{14}=91$

$R_{15}=66$



Photometric Parameters

Luminous Flux: 1431.4 lm

Efficiency: 82.53 lm/W

Radiant Power: 3.959 W

Electric Parameters

Voltage: 221.20V

Current: 0.1360A

Power: 17.35W

Power Factor: 0.5750

Frequency: 50.00Hz

Test Information

Scan Range: 380nm~800nm:1nm Photometric Method: sphere-spectroradiometer

Stabilization Time: 0 Min

Photometric Condition: Sphere diameter: 1.50m, 4 π

Max of Signal: 45945 (3529)

CCD Integration Time: 371.46 ms

Condition: Tx:28.2'C, Ti:28.2'C, R.H.:60%

Test Lab:

Operator:

Test Device: Inventfine CMS-2

Test Time: 2022-10-15 10:58:01

Inspector: