

# 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:** 98FLARE09/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
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	9	Energy efficiency class	F
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	735 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	8,7	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 <sup>(a)</sup>	-	If yes, equivalent power (W)	-	
		Chromaticity coordinates (x and y)	0,374 0,372	
<b>Parameters for directional light sources:</b>				
Peak luminous intensity (cd)	1 435	Beam angle in degrees, or the range of beam angles that can be set	45	
<b>Parameters for LED and OLED light sources:</b>				
R9 colour rendering index value	0	Survival factor	0,50	
the lumen maintenance factor	0,95			
<b>Parameters for LED and OLED mains light sources:</b>				
displacement factor (cos $\phi_1$ )	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-9W

## CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3741$   $y=0.3722$   $u(u')=0.2227$   $v=0.3324$   $v'=0.4986$

CCT:  $T_c=4147K$  ( $duv=-0.00025$ )

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

Peak Wavelength: 449nm

Half Bandwidth: 22.0nm

Dominant Wavelength: 578.6nm

Color Purity: 0.240

CRI:  $R_i$ :  $R_a=73.7$

$R_1=72$

$R_2=80$

$R_3=85$

$R_4=73$

$R_5=71$

$R_6=71$

$R_7=82$

$R_8=56$

$R_9=0$

$R_{10}=50$

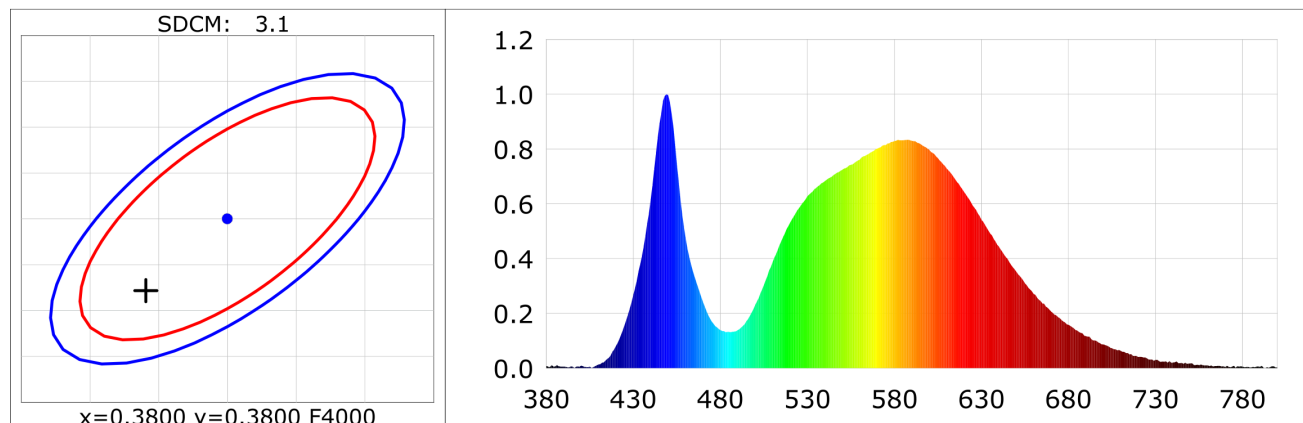
$R_{11}=69$

$R_{12}=44$

$R_{13}=73$

$R_{14}=91$

$R_{15}=66$



## Photometric Parameters

Luminous Flux: 735.1 lm

Efficiency: 84.30 lm/W

Radiant Power: 2.048 W

## Electric Parameters

Voltage: 220.50V

Current: 0.0730A

Power: 8.72W

Power Factor: 0.5400

Frequency: 49.99Hz

## Test Information

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

Stabilization Time: 0 Min

Photometric Condition: Sphere diameter: 1.50m, 4 $\pi$

Max of Signal: 45513 (3701)

CCD Integration Time: 717.45 ms

Condition: Tx:28.1'C, Ti:28.2'C, R.H.:60%

Test Lab:

Operator:

Test Device: Inventfine CMS-2

Test Time: 2022-10-15 10:53:35

Inspector: