

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: 98FLARE36/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	36	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°)	2 743 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	33,8	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	1 000	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	48	
	Depth	40	
			See image in last page

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 0,369
Parameters for directional light sources:			
Peak luminous intensity (cd)	5 666	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)	0,60	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-36W

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3725$ $y=0.3693$ $u(u')=0.2228$ $v=0.3314$ $v'=0.4971$

CCT: $T_c=4172K$ ($duv=-0.00112$)

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

Peak Wavelength: 449nm

Half Bandwidth: 22.1nm

Dominant Wavelength: 579.1nm

Color Purity: 0.226

CRI: R_i : $R_a=73.8$

$R_1=72$

$R_2=80$

$R_3=85$

$R_4=74$

$R_5=71$

$R_6=71$

$R_7=82$

$R_8=57$

$R_9=0$

$R_{10}=50$

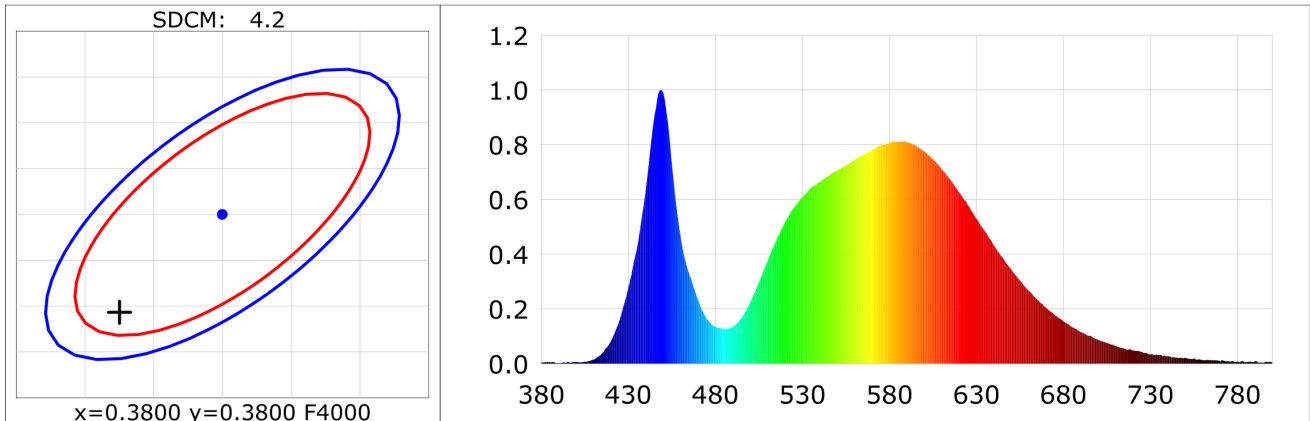
$R_{11}=69$

$R_{12}=45$

$R_{13}=73$

$R_{14}=91$

$R_{15}=67$



Photometric Parameters

Luminous Flux: 2743.47 lm

Efficiency: 81.06 lm/W

Radiant Power: 7.543 W

Electric Parameters

Voltage: 221.00V

Current: 0.2490A

Power: 33.87W

Power Factor: 0.6140

Frequency: 50.00Hz

Test Information

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

Stabilization Time: 0 Min

Photometric Condition: Sphere diameter: 1.50m, 4T

Max of Signal: 46595 (3291)

CCD Integration Time: 200.00 ms

Condition: Tx:27.8'C, Ti:28.3'C, R.H.:60%

Test Lab:

Operator:

Test Device: Inventfine CMS-2

Test Time: 2022-10-15 10:45:44

Inspector: