# **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: 93ZFLD2040/BL

## Type of light source:

Lighting technology used:	LED	Non-directional or directional:	DLS
Light source cap-type	Integrated LED		
(or other electric interface)			
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 consur mode (kWh/10 up to the neare	00 h), rounded	20	Energy efficiency class	E		
		2 200 in Nar- row cone (90°)	Correlated colour temperature, rounded to the near- est 100 K, or the range of correlat- ed colour temper- atures, rounded to the nearest 100 K, that can be set	4 000		
On-mode power (P <sub>on</sub> ), ex- pressed in W		19,5	Standby power (P <sub>sb</sub> ), expressed in W and rounded to the sec- ond decimal	0,00		
Networked standby power (P <sub>net</sub> ) for CLS, expressed in W and rounded to the second dec- imal		-	Colour rendering in- dex, rounded to the nearest integer, or the range of CRI-val- ues that can be set	82		
Outer dimen- sions without	Height	278	Spectral power dis-	See image		
	Width	33	tribution in the	in last page		
separate con- trol gear, light- ing control	Depth	66	range 250 nm to 800 nm, at full-load	Page 1/3		

parts and non- lighting con- trol parts, if any (millime- tre)					
Claim of equivalent power <sup>(a)</sup>	-	lf yes, equivalent power (W)	-		
		Chromaticity coordi- nates (x and y)	0,379 0,380		
Parameters for directional light sources:					
Peak luminous intensity (cd)	454	Beam angle in de- grees, or the range of beam angles that can be set	30		
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 φ1)	0,30	Colour consistency in McAdam ellipses	4		
Claims that an LED light source replaces a fluorescent light source without integrated bal- last of a particular wattage.	_(b)	If yes then replace- ment claim (W)	-		
Flicker metric (Pst LM)	0,5	Stroboscopic effect metric (SVM)	0,2		

(a)'-' : not applicable;

(b)<sub>'-'</sub> : not applicable;



## **Lightsource Test Report**

## **Product Infomation**

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0 0.1

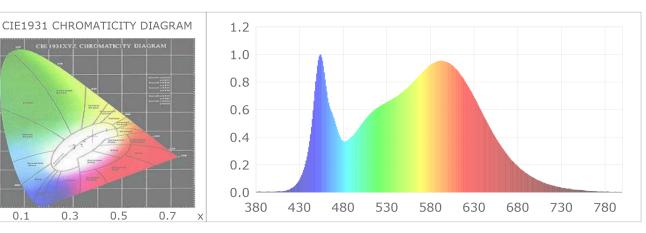
Product Number: 22

## **CIE Colorimetric Parameters**

Chromaticity coordinates: x=0.3795 y=0.3807 u(u')=0.2229 v=0.3354 v'=0.5032 CCT: Tc=4056K (duv=0.00213) Peak Wavelength: 454nm Dominant Wavelength: 577.7nm CRI: Ri: Ra= 82.8 R1 =81 R2 = 92 R3 = 96 R4 = 80 R5 = 81 R9 = 3 R10=80 R12=63 R11=79

Color Ratio: R=0.180 G=0.778 B=0.042 Half Bandwidth: 26.7nm Color Purity: 0.281

R6 = 89 R7 =83 R8 = 61 R13=84 R14=98 R15=74



## **Photometric Parameters**

Luminous Flux: 2207.4 Im	Efficiency: 113.20 Im/W	Radiant Power: 6.606 W
Electric Parameters		
Voltage: 220.50V Power Factor: 0.4970	Current: 0.1770A Frequency: 50.00Hz	Power: 19.50W

Test Infomation Scan Range: 380nm~800nm:1nm Stabilization Time: 6 Sec Max of Signal: 49953 (3067)

Photometric Method: Photometric Condition: Sphere diameter: 1.50m, 4∏ CCD Integration Time: 497.92 ms

Condition: Tx:26.6'C, Ti:25.6'C Test Lab: Operator:

Test Device: Inventfine CMS-2S (Plus) Test Time: 2022-03-31 20:01:14 Inspector: