

# 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:** 93PGNL2040/BL

## 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):	Yes
Colour-tuneable light source:	No	Envelope:	-
High luminance light source:	Yes		
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	20	Energy efficiency class	G
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°)	1 200 in Wide cone (120°)	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	18,5	Standby power ( $P_{sb}$ ), expressed in W and rounded to the second decimal	0,20
Networked standby power ( $P_{net}$ ) for CLS, expressed in W and rounded to the second decimal	0,20	Colour rendering index, rounded to the nearest integer, or the range of CRI-values that can be set	82
Outer dimensions without separate control gear, lighting control	Height	138	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	36	
	Depth	150	
			See image in last page

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)	0,388 0,387
<b>Parameters for directional light sources:</b>			
Peak luminous intensity (cd)	410	Beam angle in degrees, or the range of beam angles that can be set	107
<b>Parameters for LED and OLED light sources:</b>			
R9 colour rendering index value	1	Survival factor	0,50
the lumen maintenance factor	0,95		
<b>Parameters for LED and OLED mains light sources:</b>			
displacement factor (cos $\phi_1$ )	0,40	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;

## Lightsource Test Report

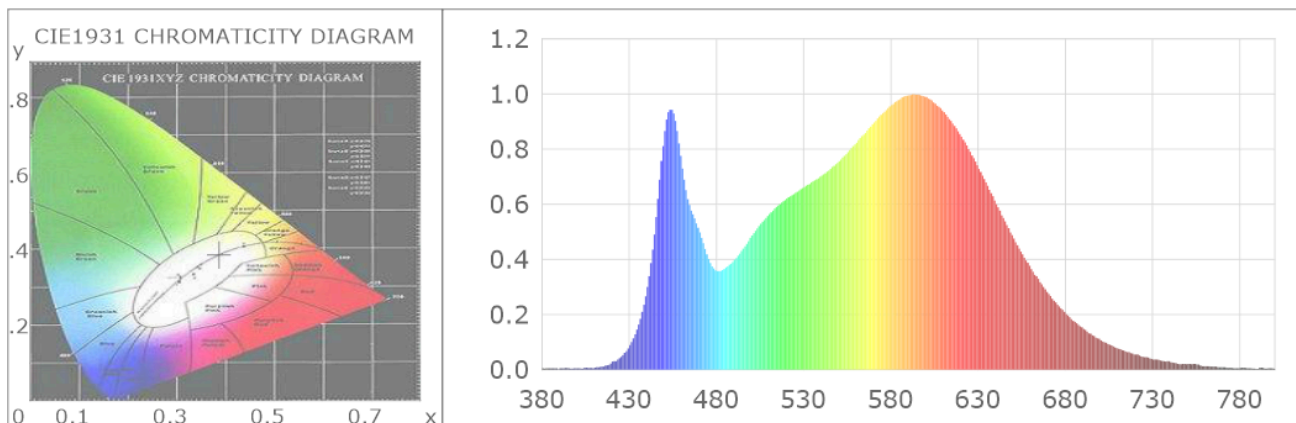
### Product Information

Product Number: 8

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3881$   $y=0.3871$   $u(u')=0.2260$   $v=0.3381$   $v'=0.5072$   
 CCT:  $T_c=3876K$  ( $duv=0.00262$ ) Color Ratio:  $R=0.185$   $G=0.776$   $B=0.039$   
 Peak Wavelength: 593nm Half Bandwidth: 145.7nm  
 Dominant Wavelength: 578.3nm Color Purity: 0.327  
 CRI:  $R_i$ :  $R_a=82.3$   

R1 =80	R2 =91	R3 =96	R4 =79	R5 =81	R6 =88	R7 =83	R8 =60
R9 =1	R10=79	R11=78	R12=63	R13=83	R14=98	R15=73	



### Photometric Parameters

Luminous Flux: 1164.4 lm      Efficiency: 62.94 lm/W      Radiant Power: 3.457 W

### Electric Parameters

Voltage: 220.60V      Current: 0.1690A      Power: 18.50W  
 Power Factor: 0.4930      Frequency: 50.00Hz

#### Test Information

Scan Range: 380nm~800nm:1nm	Photometric Method:
Stabilization Time: 6 Sec	Photometric Condition: Sphere diameter: 1.50m, 4T
Max of Signal: 53496 (3178)	CCD Integration Time: 1005.04 ms

Condition: Tx:25.6'C, Ti:25.3'C  
 Test Lab:  
 Operator:

Test Device: Inventfine CMS-2S (Plus)  
 Test Time: 2022-03-31 19:30:42  
 Inspector: