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: 92PANEL022W/WH

Type of light source:

Lighting technology used:	LED	Non-directional or directional:	NDLS
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:	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	48	Energy efficiency class	G
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)	4 044 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	50,0	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	0,00	Colour rendering index, rounded to the nearest integer, or the range of CRI-values that can be set	83
Outer dimensions without separate control gear, lighting control — Height	595	Spectral power distribution in the range 250 nm to 800 nm, at full-load	See image in last page
Outer dimensions without separate control gear, lighting control — Width	595		
Outer dimensions without separate control gear, lighting control — Depth	40		

parts and non-lighting control parts, if any (millimetre)				
Claim of equivalent power[(a)]		-	If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,376 0,377
Parameters for LED and OLED light sources:				
R9 colour rendering index value		11	Survival factor	0,50
the lumen maintenance factor		0,95		
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ1)		0,90	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)		0,0	Stroboscopic effect metric (SVM)	0,2

[(a)] '-' : not applicable;

[(b)] '-' : not applicable;

Lightsource Test Report

Product Infomation

Product Type: 595-595-48W Product Number: 1

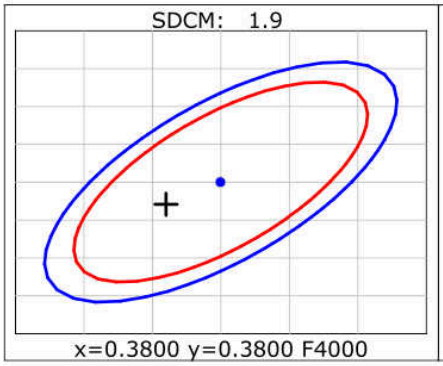
CIE Colorimetric Parameters

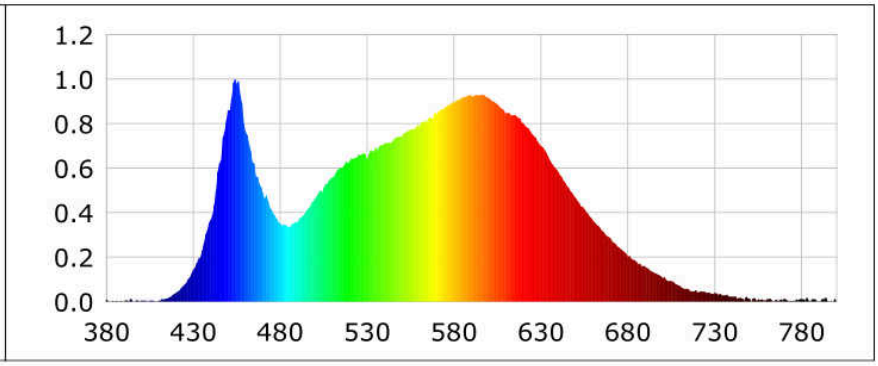
Chromaticity coordinates: x=0.3760 y=0.3771 u(u')=0.2221 v=0.3340 v'=0.5011
CCT: Tc=4126K (duv=0.00147) Color Ratio: R=0.179 G=0.781 B=0.040
Peak Wavelength: 453.9nm Half Bandwidth: 26.6nm
Dominant Wavelength: 577.8nm Color Purity: 0.260
CRI: Ra= 83.9 TM30: Rf= 84, Rg= 94
GAI: GAI_BB_8=89.6, GAI_BB_15=96.6, GAI_EES=72.4

R1 =82	R2 =91	R3 =96	R4 =82	R5 =82	R6 =88	R7 =85	R8 =65
R9 =11	R10=78	R11=81	R12=63	R13=85	R14=98	R15=76	

Color Quality Scale: Qa= 83.5, Qf= 84.0, Qp= 82.3, Qg= 91.3

Q1 =82	Q2 =97	Q3 =83	Q4 =77	Q5 =81	Q6 =83	Q7 =85	Q8 =90
Q9 =98	Q10=91	Q11=87	Q12=86	Q13=85	Q14=74	Q15=77	





Photometric Parameters

Luminous Flux: 4044.1 lm Efficiency: 80.85 lm/W Radiant Power: 12.241 W
EEI: 0.17 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 230.40V Current: 0.2250A Power: 50.02W
Power Factor: 0.9660 Frequency: 49.99Hz

Test Infomation
Scan Range: 380~800:1nm
Stabilization Time: 0 Sec ALC.: 0.9000
Max of Signal: 45730 (5225)

Photometric Method: sphere-spectroradiometer
Photometric Condition: Sphere diameter: 2.00m, 4π
CCD Integration Time: 1567.30 ms

Condition: Tx:29.4'C, Ti:26.8'C, R.H.:60% Test Device: Inventfine CMS-2S (Plus)
Test Lab: Test Time: 2022-07-11 12:37:46
Operator: Inspector: