

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: 98PRAGUE100/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:	Yes		
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	100	Energy efficiency class	D
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°)	12 000 in Sphere (360°)	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	98,9	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	71
Outer dimensions without separate control gear, lighting control	Height	545	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	230	
	Depth	86	
			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)	0,378 0,381
Parameters for directional light sources:			
Peak luminous intensity (cd)	7 798	Beam angle in degrees, or the range of beam angles that can be set	108
Parameters for LED and OLED light sources:			
R9 colour rendering index value	-34	Survival factor	0,50
the lumen maintenance factor	0,95		
Parameters for LED and OLED mains light sources:			
displacement factor (cos ϕ_1)	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)	0,5	Stroboscopic effect metric (SVM)	0,2

(a) : not applicable;

(b) : not applicable;

Lighting Measure Report

Color Parameter

Chroma Coordinate: $x=0.3782$ $y=0.3813$ $u=0.2218$ $v=0.3355$

Chroma Coordinate: $u'=0.2218$ $v'=0.5033$

CCT: CCT=4095K Dominant: $d=576.9\text{nm}$ Barycenter: $b=567\text{nm}$ Peak Wavelength: $p=446.6\text{nm}$

FWHM: 18.95nm Purity: $Pe=27.93\%$ Red Ratio: $R=0.162$ Green Ratio: $G=0.816$ Blue Ratio: $B=0.022$

Color CRI: $Ra=71.36$

R 1=68	R 2=77	R 3=85	R 4=72	R 5=68	R 6=68	R 7=80
R 8=52	R 9=-34	R 10=46	R 11=68	R 12=41	R 13=69	R 14=92
R 15=62						

Luminosity Parameter

Luminous Flux(380-780nm): 11228.4lm Optical Power(380-780nm): 43.24W Efficient(380-780nm): 113.5lm/W

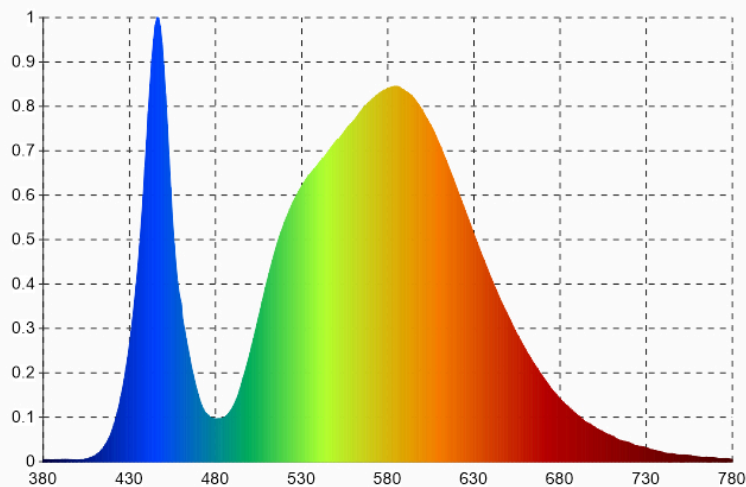
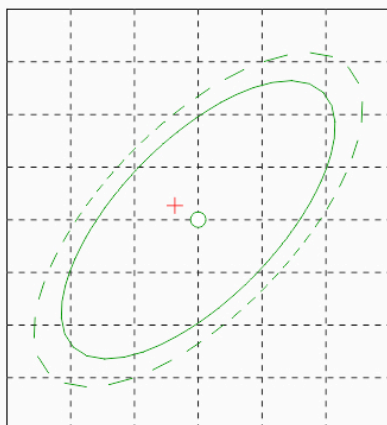
Electric Parameter

Voltage: $U=220\text{V}$ Current: $I=461\text{mA}$ Power: $P=98.9\text{W}$ PF: $PF=0.974$

Device State

Wavelength Range: 380nm-780nm Wavelength Interval: 1nm

SDCM: 1.7 SDCM



Product Model: 98PRAGUE100/W

Sample No.: 1

Test Cond: $Tg=24.2\text{Cels}$ $Ta=24.6\text{Cels}$ $RH=60\%$

Test Date: 2022-6-5

Manufacturer: WONON

Product Category: /

Measure Device: Volnic X10 Series CCD Spectrum System

Operator(Sign): _____