

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/WW

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°)	12 500 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	3 000
On-mode power (P_{on}), expressed in W	103,4	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	Spectral power distribution in the range 250 nm to 800 nm, at full-load	See image in last page
	Width		
	Depth		

parts and non-lighting control parts, if any (millimetre)				
Claim of equivalent power ^(a)	-	If yes, equivalent power (W)	-	
		Chromaticity coordinates (x and y)	0,438 0,405	
Parameters for directional light sources:				
Peak luminous intensity (cd)	6 953	Beam angle in degrees, or the range of beam angles that can be set	109	
Parameters for LED and OLED light sources:				
R9 colour rendering index value	-37	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)	0,6	Stroboscopic effect metric (SVM)	0,2	

(a) '-': not applicable;

(b) '-': not applicable;

Lighting Measure Report

Color Parameter

Chroma Coordinate: $x=0.4383$ $y=0.4059$ $u=0.2506$ $v=0.3482$

Chroma Coordinate: $u'=0.2506$ $v'=0.5223$

CCT: CCT=2993K Dominant: $d=583.2\text{nm}$ Barycenter: $b=586\text{nm}$ Peak Wavelength: $p=594.2\text{nm}$

FWHM: 110nm Purity: $Pe=53.26\%$ Red Ratio: $R=0.21$ Green Ratio: $G=0.771$ Blue Ratio: $B=0.018$

Color CRI: $Ra=71.05$

R 1=67 R 2=83 R 3=95 R 4=65 R 5=66 R 6=75 R 7=76

R 8=41 R 9=-37 R 10=59 R 11=59 R 12=47 R 13=70 R 14=97

R 15=60

Luminosity Parameter

Luminous Flux(380-780nm): 12830.4lm Optical Power(380-780nm): 40.83W Efficient(380-780nm): 124.1lm/W

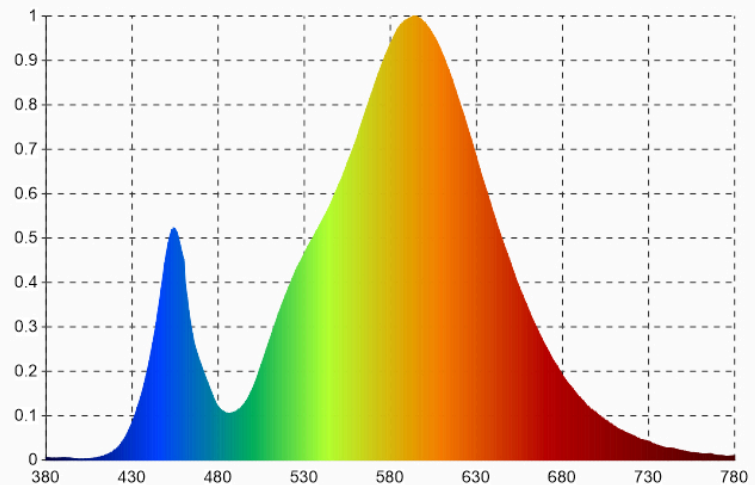
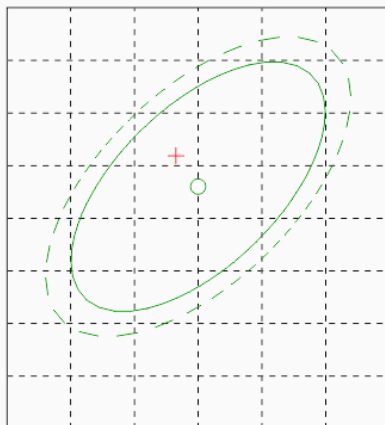
Electric Parameter

Voltage: $U=220\text{V}$ Current: $I=481\text{mA}$ Power: $P=103.4\text{W}$ PF: $PF=0.976$

Device State

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

SDCM: 2.4 SDCM



Product Model: 98PRAGUE100/WW

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): _____