

# 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:** 98PRAGUE150/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
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	150	Energy efficiency class	E
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°)	18 000 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	3 000
On-mode power ( $P_{on}$ ), expressed in W	156,9	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	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 <sup>(a)</sup>	-	If yes, equivalent power (W)	-	
		Chromaticity coordinates (x and y)	0,437 0,404	
<b>Parameters for directional light sources:</b>				
Peak luminous intensity (cd)	9 901	Beam angle in degrees, or the range of beam angles that can be set	111	
<b>Parameters for LED and OLED light sources:</b>				
R9 colour rendering index value	-35	Survival factor	0,50	
the lumen maintenance factor	0,95			
<b>Parameters for LED and OLED mains light sources:</b>				
displacement factor (cos $\phi_1$ )	0,90	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:  $x=0.4371$   $y=0.4046$   $u=0.2504$   $v=0.3477$

Chroma Coordinate:  $u'=0.2504$   $v'=0.5216$

CCT: CCT=3002K Dominant:  $d=583.2\text{nm}$  Barycenter:  $b=586\text{nm}$  Peak Wavelength:  $p=594.4\text{nm}$

FWHM:  $111.3\text{nm}$  Purity:  $Pe=52.55\%$  Red Ratio:  $R=0.211$  Green Ratio:  $G=0.771$  Blue Ratio:  $B=0.019$

Color CRI:  $Ra=71.48$

R 1=68 R 2=83 R 3=95 R 4=66 R 5=66 R 6=75 R 7=77

R 8=42 R 9=35 R 10=59 R 11=59 R 12=47 R 13=71 R 14=97

R 15=60

## Luminosity Parameter

Luminous Flux(380-780nm):  $18188.5\text{lm}$  Optical Power(380-780nm):  $65.43\text{W}$  Efficient(380-780nm):  $115.9\text{lm/W}$

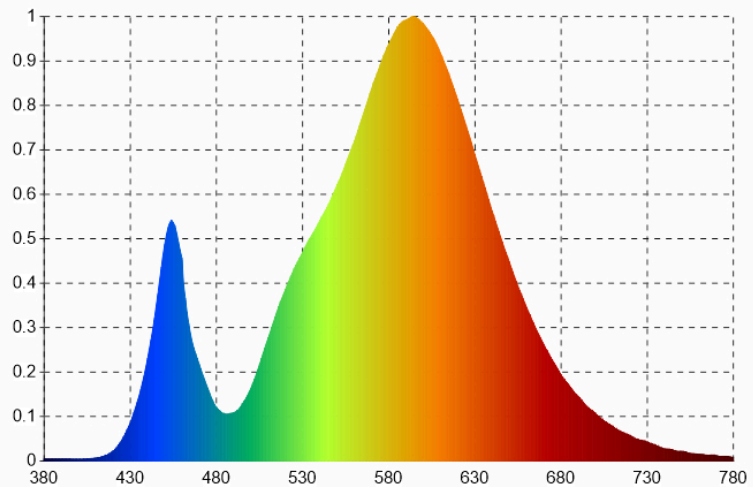
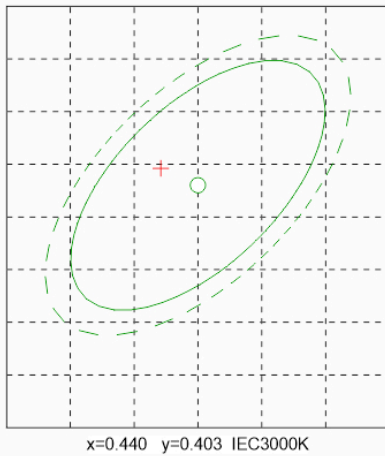
## Electric Parameter

Voltage:  $U=219.6\text{V}$  Current:  $I=733\text{mA}$  Power:  $P=156.9\text{W}$  PF:  $PF=0.975$

## Device State

Wavelength Range:  $380\text{nm}-780\text{nm}$  Wavelength Interval:  $1\text{nm}$

SDCM: 2.4 SDCM



Product Model: 98PRAGUE150/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): \_\_\_\_\_