

# 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:** 9WF45CW

**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:	No		
Anti-glare shield:	No	Dimmable:	No

## Product parameters

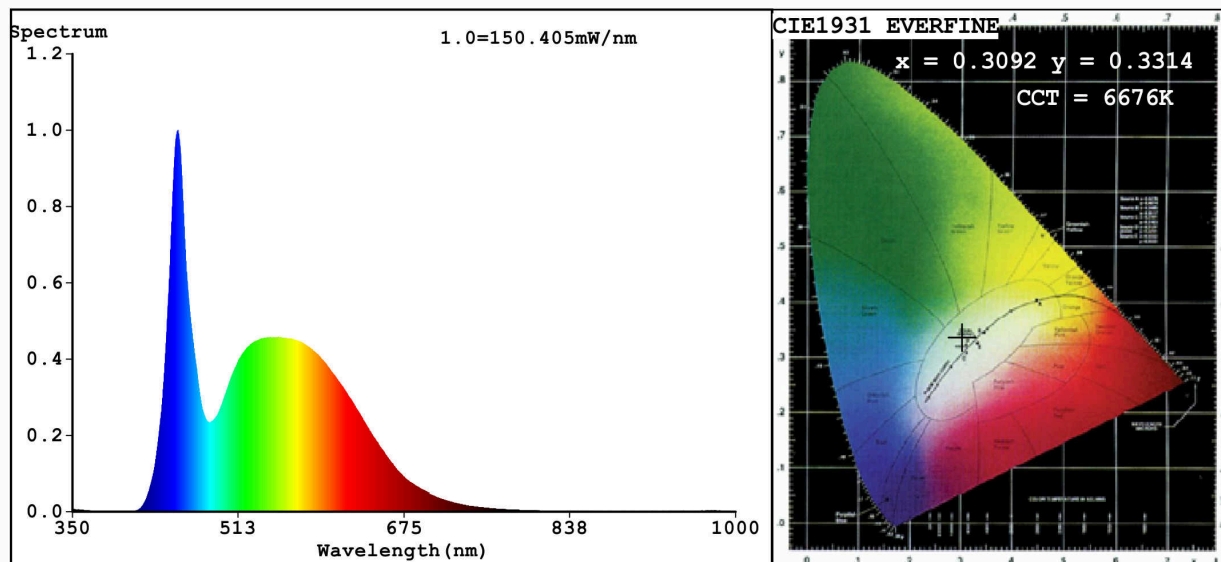
Parameter	Value	Parameter	Value
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	45	Energy efficiency class	F
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	4 400 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	6 500
On-mode power ( $P_{on}$ ), expressed in W	46,0	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	-	Colour rendering index, rounded to the nearest integer, or the range of CRI-values that can be set	82
Outer dimensions without	Height	Spectral power distribution in the	See image in last page
	Width		
	Depth		

separate control gear, lighting control parts and non-lighting control parts, if any (millimetre)			range 250 nm to 800 nm, at full-load	
Claim of equivalent power <sup>(a)</sup>	-	If yes, equivalent power (W)	-	
		Chromaticity coordinates (x and y)	0,309 0,331	
<b>Parameters for directional light sources:</b>				
Peak luminous intensity (cd)	453	Beam angle in degrees, or the range of beam angles that can be set	120	
<b>Parameters for LED and OLED light sources:</b>				
R9 colour rendering index value	6	Survival factor	0,50	
the lumen maintenance factor	0,93			
<b>Parameters for LED and OLED mains light sources:</b>				
displacement factor (cos $\phi_1$ )	0,90	Colour consistency in McAdam ellipses	0	
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)	0,0	

(a) - : not applicable;

(b) - : not applicable;

## Spectrum Test Report

**Color Parameters:**Chromaticity Coordinate:  $x=0.3092$   $y=0.3314$   $u'=0.1945$   $v'=0.4691$ 

CCT=6676K(Duv=0.0062) Dominant WL:Ld =490.7nm Purity=8.3%

Ratio:R=12.9% G=81.3% B=5.8%; Peak WL:Lp=453.6nm FWHM=22.9nm

Render Index:Ra=82.5

R1 =80	R2 =88	R3 =91	R4 =81	R5 =80	R6 =82	R7 =89	
R8 =70	R9 =6	R10=70	R11=79	R12=54	R13=82	R14=96	R15=75

**Photo Parameters:**

Flux = 4435 lm Eff. : 96.40 lm/W Fe = 14.36 W

**Electrical parameters:**

V = 229.78 V I = 0.2048 A P = 46.01 W PF = 0.9778

WHITE:ANSI\_6500K

Status: Integral T = 5 ms Ip = 42291 (65%)

Model:WADE FIXTURE IP65/45W  
Tester:Petya Marinova  
Temperature:25.3Deg  
Manufacturer:ELMARK

Number:9WF45CW  
Date:2018-08-28 09:05  
Humidity:65.0%  
Remarks:018V008B\_4728