

# 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:** 93TLOM180CW/WH

## 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

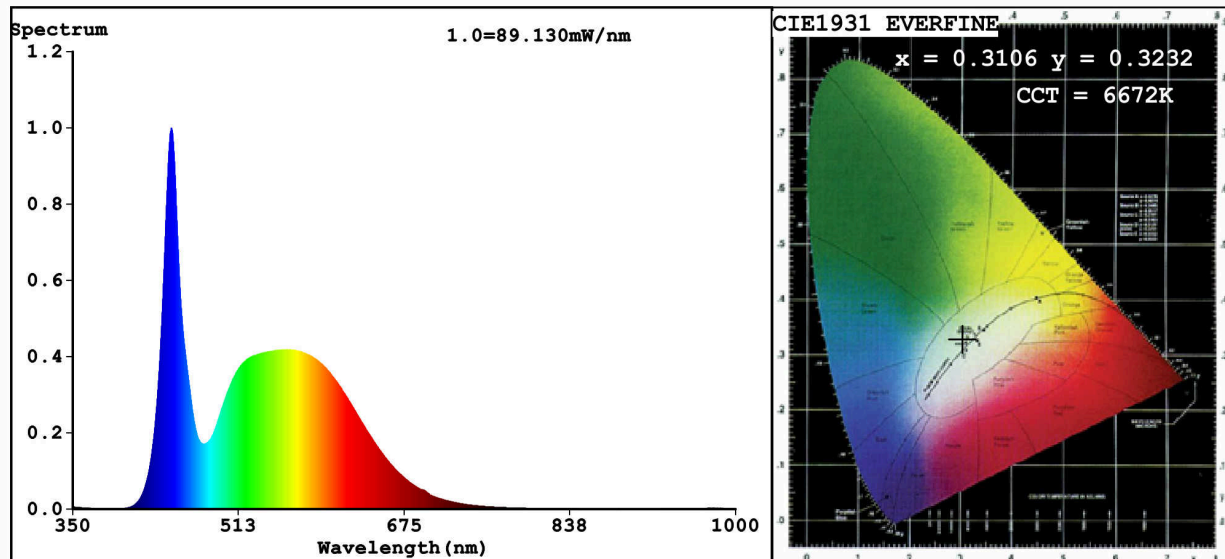
Parameter	Value	Parameter	Value
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	20	Energy efficiency class	F
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	2 000 in Nar-row cone (90°)	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	23,6	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	81
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)	0,310 0,323	
<b>Parameters for directional light sources:</b>				
Peak luminous intensity (cd)	4 750	Beam angle in degrees, or the range of beam angles that can be set	22	
<b>Parameters for LED and OLED light sources:</b>				
R9 colour rendering index value	7	Survival factor	0,50	
the lumen maintenance factor	0,93			
<b>Parameters for LED and OLED mains light sources:</b>				
displacement factor (cos $\phi_1$ )	0,47	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:  $x=0.3106$   $y=0.3232$   $u'=0.1985$   $v'=0.4649$   
 CCT=6672K (Duv=0.0013) Dominant WL:  $L_d = 485.8nm$  WL:  $L_c = --nm$  Purity=8.5%  
 Ratio: R=13.3% G=81.6% B=5.1%; Peak WL:  $L_p = 446.6nm$  FWHM=19.9nm  
 Render Index:  $R_a = 81.4$  AvgR=74.2 TM30:  $R_f = 81$   $R_g = 96$   $L_{av} = 537.9nm$

R1 =81	R2 =84	R3 =85	R4 =83	R5 =82	R6 =79	R7 =86
R8 =71	R9 =7	R10=61	R11=84	R12=60	R13=81	R14=92
						R15=76

### Photo Parameters:

Flux = 2416 lm Eff. : 102.00 lm/W Fe = 7.907 W

### Electrical parameters:

V = 225.11 V I = 0.2217 A P = 23.69 W PF = 0.4745

WHITE: ANSI\_6500K

Status: Integral T = 15 ms Ip = 44272 (68%)

Model: LED INTERIOR LIGHTING  
 Tester: Atanas DAKOV  
 Temperature: 25.3Deg  
 Manufacturer: ELMARK

Number: 93TLOM180CW WH  
 Date: 2021-11-12 10:55:16  
 Humidity: 65.0%  
 Remarks: