

# 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:** 93TLOM190CW/GR

## 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

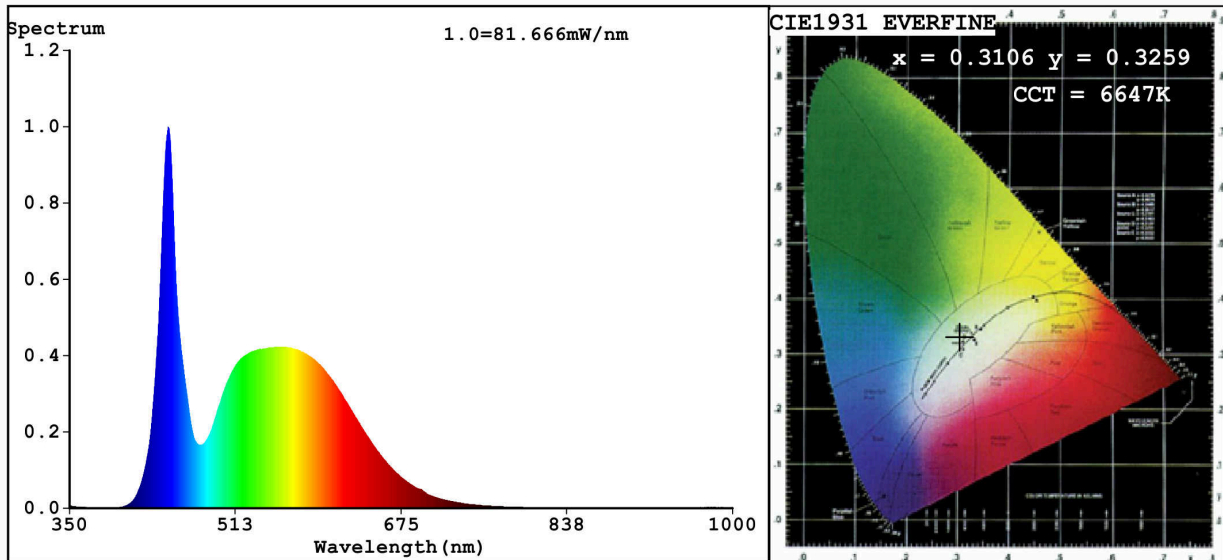
Parameter	Value	Parameter	Value
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	30	Energy efficiency class	G
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	2 200 in Narrow 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	30,8	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	80
Outer dimensions without separate control gear, lighting control	Height	145	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	163	
	Depth	163	
			See image in last page

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 0,325
<b>Parameters for directional light sources:</b>			
Peak luminous intensity (cd)	12 064	Beam angle in degrees, or the range of beam angles that can be set	24
<b>Parameters for LED and OLED light sources:</b>			
R9 colour rendering index value	2	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:  $x=0.3106$   $y=0.3259$  /  $u'=0.1975$   $v'=0.4664$

CCT=6647K (Duv=0.0027) Dominant WL:  $\lambda_d = 487.4nm$  Purity=8.2%

Ratio: R=13.1% G=81.9% B=5.0% ; Peak WL:  $\lambda_p = 446.6nm$  FWHM=19.2nm

Render Index: Ra=80.5

R1 =79	R2 =83	R3 =85	R4 =82	R5 =81	R6 =78	R7 =86	
R8 =70	R9 =2	R10=59	R11=83	R12=59	R13=80	R14=92	R15=75

**Photo Parameters:**

Flux = 2223 lm Eff. : 72.16 lm/W Fe = 7.227 W

**Electrical parameters:**

V = 229.84 V I = 0.1474 A P = 30.81 W PF = 0.9092

WHITE: ANSI\_6500K

Status: Integral T = 13 ms Ip = 45647 (70%)

Model: SKY TL0M190 COB/30W  
Tester: Petya Marinova  
Temperature: 25.3Deg  
Manufacturer: ELMARK

Number: 93TL0M190CW/GR  
Date: 2018-02-16 15:47  
Humidity: 65.0%  
Remarks: 017V055A\_4281