

# 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:** 93TLOM190W/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:	No		
Anti-glare shield:	No	Dimmable:	No

## Product parameters

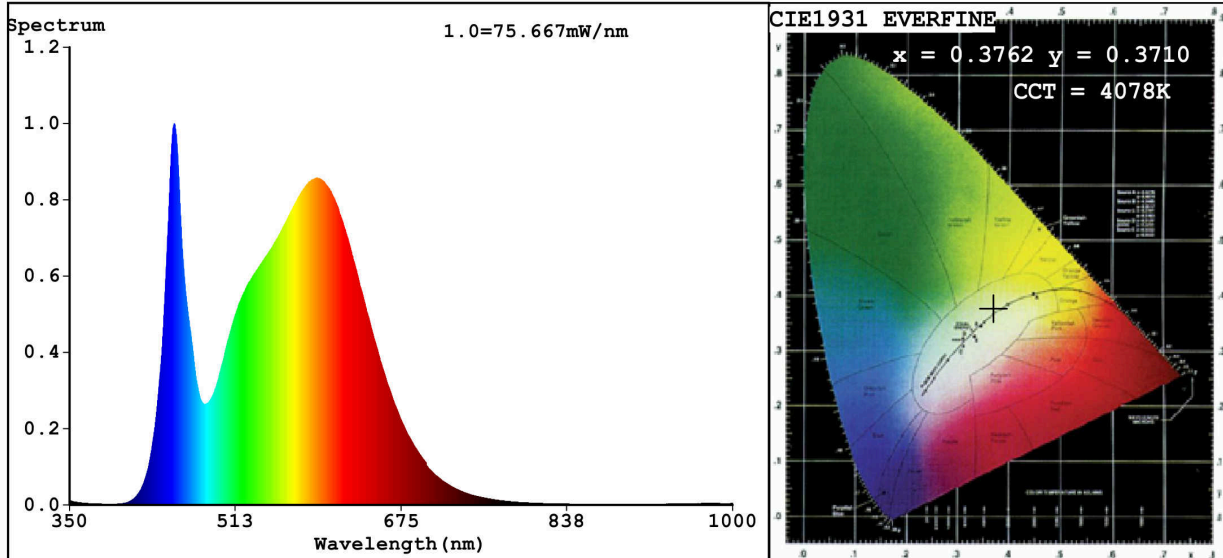
Parameter	Value	Parameter	Value
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	30	Energy efficiency class	F
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	3 000 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	4 000
On-mode power ( $P_{on}$ ), expressed in W	28,2	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)	0,376 0,371
<b>Parameters for directional light sources:</b>				
Peak luminous intensity (cd)	452		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	7		Survival factor	0,50
the lumen maintenance factor	0,93			
<b>Parameters for LED and OLED mains light sources:</b>				
displacement factor (cos $\phi_1$ )	0,50		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: $x=0.3762$   $y=0.3710$ / $u'=0.2246$   $v'=0.4984$   
 CCT=4078K(Duv=-0.0014) Dominant WL:Ld =579.6nm WL:Lc = --nm Purity=24.2%  
 Ratio:R=18.1% G=78.1% B=3.8%; Peak WL:Lp=452.9nm FWHM=23.8nm  
 Render Index:Ra=82.6

R1 =81    R2 =90    R3 =95    R4 =80    R5 =81    R6 =85    R7 =85  
 R8 =64    R9 =7    R10=75    R11=79    R12=61    R13=83    R14=97    R15=76

**Photo Parameters:**

Flux = 3710 lm    Eff. : 131.31 lm/W    Fe = 11.39 W

**Electrical parameters:**

V = 220.05 V    I = 0.2305 A    P = 28.25 W PF = 0.5570

WHITE:ANSI\_4000K

Status: Integral T = 22 ms    Ip = 51259 (78%)

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

Number:93TLOM190W/WH  
 Date:2020-07-30 08:56:42  
 Humidity:65.0%  
 Remarks:6855