

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/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

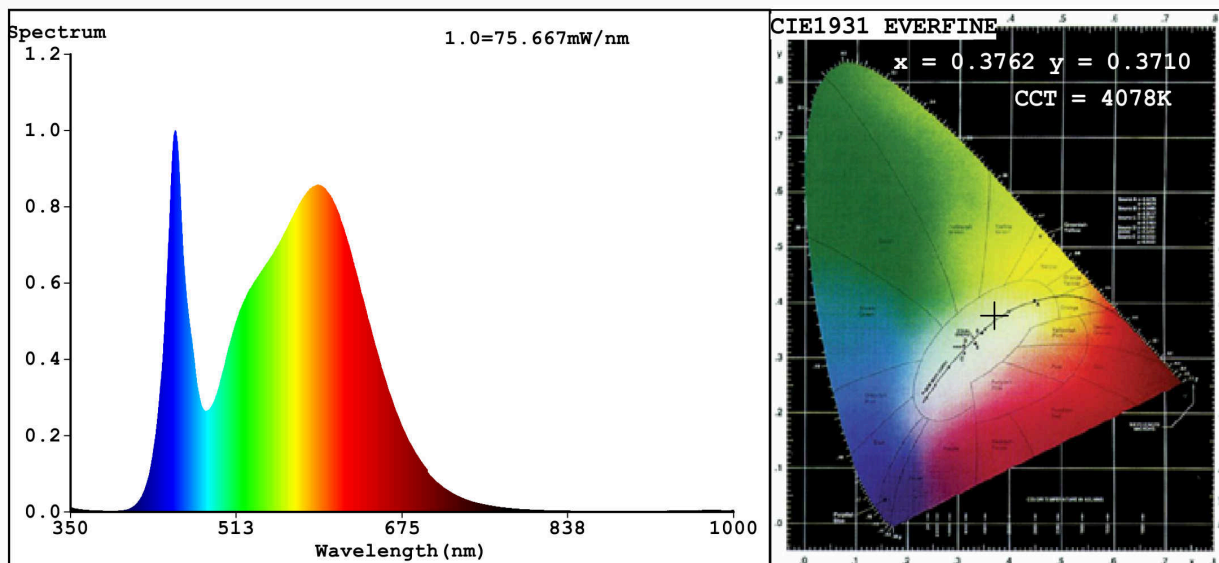
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	30	Energy efficiency class	E
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	2 947 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 separate control gear, lighting control	Height	163	Spectral power distribution in the range 250 nm to 800 nm, at full-load See image in last page
	Width	163	
	Depth	145	

parts and non-lighting control parts, if any (millimetre)				
Claim of equivalent power ^(a)	-	If yes, equivalent power (W)	-	
		Chromaticity coordinates (x and y)	0,376 0,371	
Parameters for directional light sources:				
Peak luminous intensity (cd)	11 686	Beam angle in degrees, or the range of beam angles that can be set	22	
Parameters for LED and OLED light sources:				
R9 colour rendering index value	7	Survival factor	0,50	
the lumen maintenance factor	0,93			
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ_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