

# 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:** 93TL291L15W/BL

## 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	15	Energy efficiency class	E
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°)	1 500 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	15,1	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	93
Outer dimensions without separate control gear, lighting control	Height	300	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	300	
	Depth	60	
			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)	0,382 0,338
<b>Parameters for directional light sources:</b>			
Peak luminous intensity (cd)	450	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	78	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	5
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;

# Lightsource Test Report

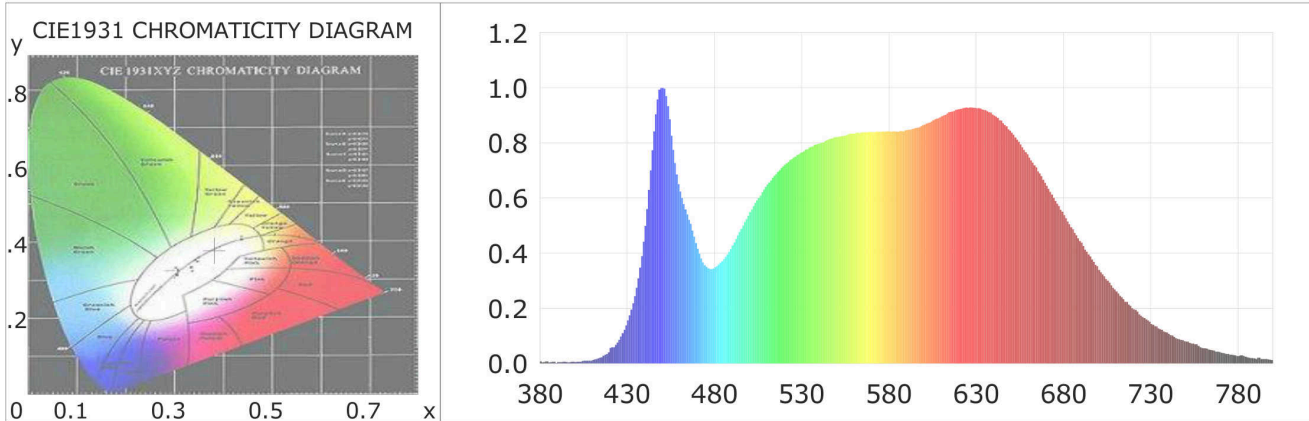
## Product Information

Product Type: 93TL291L15W

Product Number: 19

## CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3826$   $y=0.3813$   $u(u')=0.2247$   $v=0.3359$   $v'=0.5039$   
CCT:  $T_c=3976K$  ( $duv=0.00150$ ) Color Ratio:  $R=0.198$   $G=0.763$   $B=0.039$   
Peak Wavelength: 450nm Half Bandwidth: 25.5nm  
Dominant Wavelength: 578.4nm Color Purity: 0.293  
CRI:  $R_i: R_a=93.8$   
R1 =94 R2 =94 R3 =93 R4 =95 R5 =93 R6 =91 R7 =97 R8 =92  
R9 =78 R10=86 R11=94 R12=72 R13=94 R14=96 R15=93



## Photometric Parameters

Luminous Flux: 1452.1 lm Efficiency: 96.17 lm/W Radiant Power: 5.067 W

## Electric Parameters

Voltage: 220.60V Current: 0.1220A Power: 15.10W  
Power Factor: 0.5570 Frequency: 50.00Hz

### Test Information

Scan Range: 380nm~800nm:1nm  
Stabilization Time: 5 Sec  
Max of Signal: 45692 (3498)

Photometric Method:  
Photometric Condition: Sphere diameter: 1.50m, 4T  
CCD Integration Time: 767.87 ms

Condition:  $T_x:29.1^\circ C, T_i:28.9^\circ C$   
Test Lab:  
Operator:

Test Device: Inventfine CMS-2S (Plus)  
Test Time: 2021-11-05 16:14:43  
Inspector: