

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: 93TL291L15WW/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
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	15	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°)	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	3 000
On-mode power (P_{on}), expressed in W	15,0	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	92
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 ^(a)	-	If yes, equivalent power (W)	-
		Chromaticity coordinates (x and y)	0,460 0,414
Parameters for directional light sources:			
Peak luminous intensity (cd)	627	Beam angle in degrees, or the range of beam angles that can be set	27
Parameters for LED and OLED light sources:			
R9 colour rendering index value	62	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	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: 22

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4606$ $y=0.4143$ $u(u')=0.2613$ $v=0.3526$ $v'=0.5289$

CCT: $T_c=2718K$ ($duv=0.00129$)

Color Ratio: $R=0.262$ $G=0.716$ $B=0.022$

Peak Wavelength: 627nm

Half Bandwidth: 152.1nm

Dominant Wavelength: 583.7nm

Color Purity: 0.626

CRI: R_i : $R_a=92.9$

$R_1=93$

$R_2=95$

$R_3=96$

$R_4=94$

$R_5=93$

$R_6=95$

$R_7=93$

$R_8=84$

$R_9=62$

$R_{10}=88$

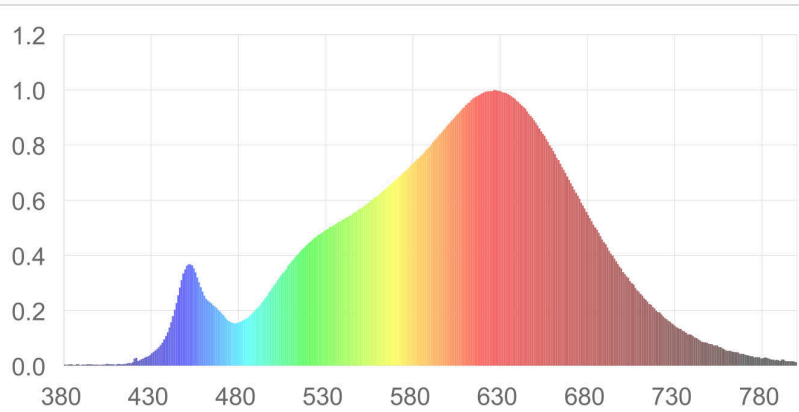
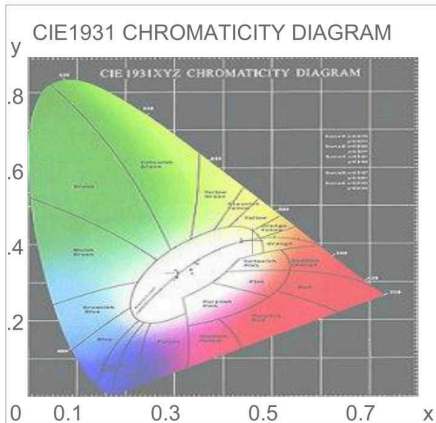
$R_{11}=95$

$R_{12}=81$

$R_{13}=94$

$R_{14}=97$

$R_{15}=89$



Photometric Parameters

Luminous Flux: 1248.8 lm

Efficiency: 83.25 lm/W

Radiant Power: 4.413 W

Electric Parameters

Voltage: 220.60V

Current: 0.1220A

Power: 15.00W

Power Factor: 0.5570

Frequency: 50.00Hz

Test Information

Scan Range: 380nm~800nm:1nm

Stabilization Time: 5 Sec

Max of Signal: 44946 (3527)

Photometric Method:

Photometric Condition: Sphere diameter: 1.50m, 4

CCD Integration Time: 670.58 ms

Condition: $T_x=29.6^{\circ}C$, $T_i=29.0^{\circ}C$

Test Lab:

Operator:

Test Device: Inventfine CMS-2S (Plus)

Test Time: 2021-11-05 16:32:47

Inspector: