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: 93TL291L10W/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:	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	10	Energy efficiency class	F
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)	900 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	10,3	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 — Height	300	Spectral power distribution in the	See image in last page
Outer dimensions without — Width	300		
Outer dimensions without — Depth	60		

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[a]		-	If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,381 0,380
Parameters for directional light sources:				
Peak luminous intensity (cd)		449	Beam angle in degrees, or the range of beam angles that can be set	24
Parameters for LED and OLED light sources:				
R9 colour rendering index value		75	Survival factor	0,50
the lumen maintenance factor		0,93		
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ1)		0,50	Colour consistency in McAdam ellipses	6
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 Infomation

Product Type: 93TL291L10W

Product Number: 18

CIE Colorimetric Parameters

Chromaticity coordinates: x=0.3819 y=0.3809 u(u')=0.2244 v=0.3357 v'=0.5036

CCT: Tc=3992K (duv=0.00152)

Color Ratio: R=0.197 G=0.765 B=0.039

Peak Wavelength: 449nm

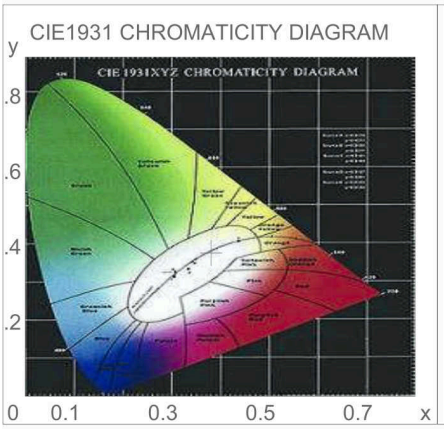
Half Bandwidth: 23.1nm

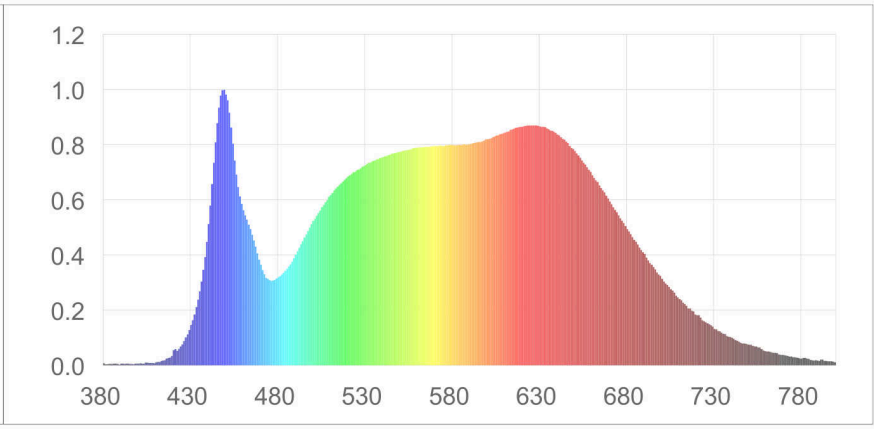
Dominant Wavelength: 578.3nm

Color Purity: 0.289

CRI: Ri: Ra= 93.2

R1 =94	R2 =94	R3 =93	R4 =94	R5 =93	R6 =91	R7 =96	R8 =91
R9 =75	R10=84	R11=93	R12=72	R13=93	R14=95	R15=93	





Photometric Parameters

Luminous Flux: 934.5 lm

Efficiency: 90.73 lm/W

Radiant Power: 3.243 W

Electric Parameters

Voltage: 220.50V

Current: 0.0890A

Power: 10.30W

Power Factor: 0.5250

Frequency: 50.00Hz

Test Infomation

Scan Range: 380nm~800nm:1nm

Stabilization Time: 5 Sec

Max of Signal: 50624 (3589)

Photometric Method:

Photometric Condition: Sphere diameter: 1.50m, 4

CCD Integration Time: 1263.60 ms

Condition: Tx:29.1'C, Ti:29.0'C

Test Device: Inventfine CMS-2S (Plus)

Test Lab:

Test Time: 2021-11-05 16:09:19

Operator:

Inspector: