

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: 99LED768

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):	Yes
Colour-tuneable light source:	No	Envelope:	-
High luminance light source:	No		
Anti-glare shield:	No	Dimmable:	No

Product parameters

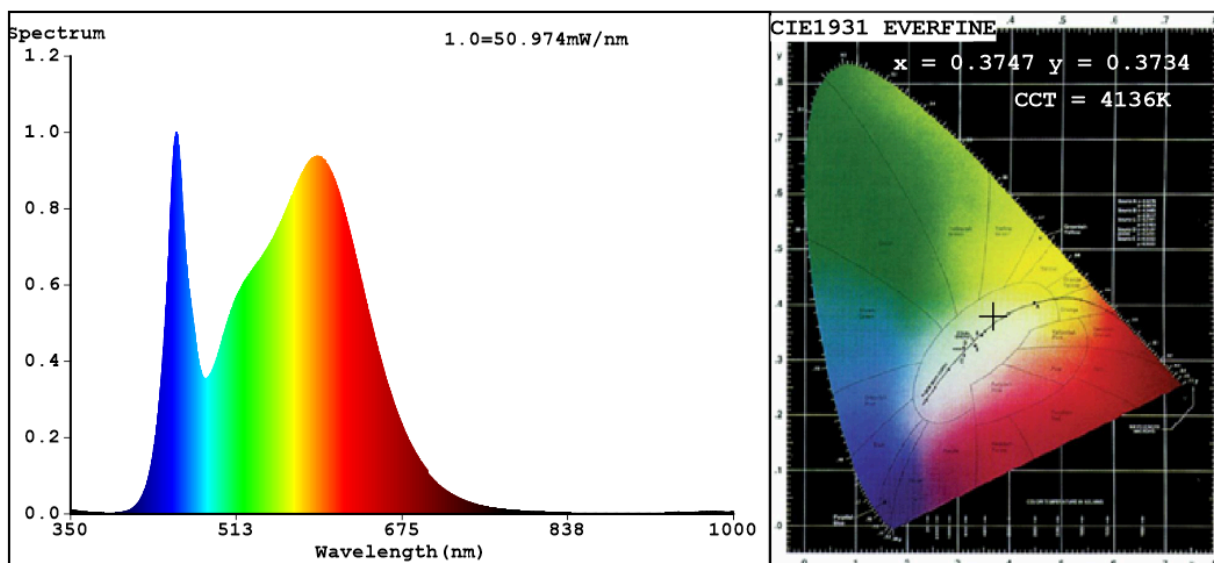
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	22	Energy efficiency class	E
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	2 200 in Wide cone (120°)	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	23,0	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	0,20	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	Spectral power distribution in the range 250 nm to 800 nm, at full-load	See image in last page
	Width		
	Depth		

parts and non-lighting control parts, if any (millimetre)				
Claim of equivalent power ^(a)	Yes	If yes, equivalent power (W)	150	
		Chromaticity coordinates (x and y)	0,375 0,372	
Parameters for directional light sources:				
Peak luminous intensity (cd)	453	Beam angle in degrees, or the range of beam angles that can be set	120	
Parameters for LED and OLED light sources:				
R9 colour rendering index value	5	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.	Yes ^(b)	If yes then replacement claim (W)	145	
Flicker metric (Pst LM)	0,6	Stroboscopic effect metric (SVM)	0,2	

(a) : not applicable;

(b) : not applicable;

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3747$ $y=0.3734$ $u'=0.2227$ $v'=0.4992$
 CCT=4136K (Duv=0.0001) Dominant WL: $\lambda_d = 578.5nm$ WL: $\lambda_c = --nm$ Purity=24.5%
 Ratio: R=17.9% G=77.9% B=4.2%; Peak WL: $\lambda_p = 454.0nm$ FWHM=27.7nm
 Render Index: Ra=83.2

R1 =82	R2 =92	R3 =96	R4 =80	R5 =82	R6 =88	R7 =84
R8 =63	R9 =6	R10=80	R11=79	R12=64	R13=85	R14=98 R15=75

Photo Parameters:

Flux = 2723 lm Eff. : 111.91 lm/W $P_e = 8.343 W$

Electrical parameters:

V = 229.46 V I = 0.1834 A P = 24.33 W PF = 0.5783

WHITE: ANSI_4000K

Status: Integral T = 20 ms $I_p = 47317 (72\%)$

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

Number: 99LED768
 Date: 2022-09-13 11:09:07
 Humidity: 65.0%
 Remarks: MOSTRA