

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: 99LED929

Type of light source:

Lighting technology used:	LED	Non-directional or directional:	NDLS
Light source cap-type (or other electric interface)	G5		
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

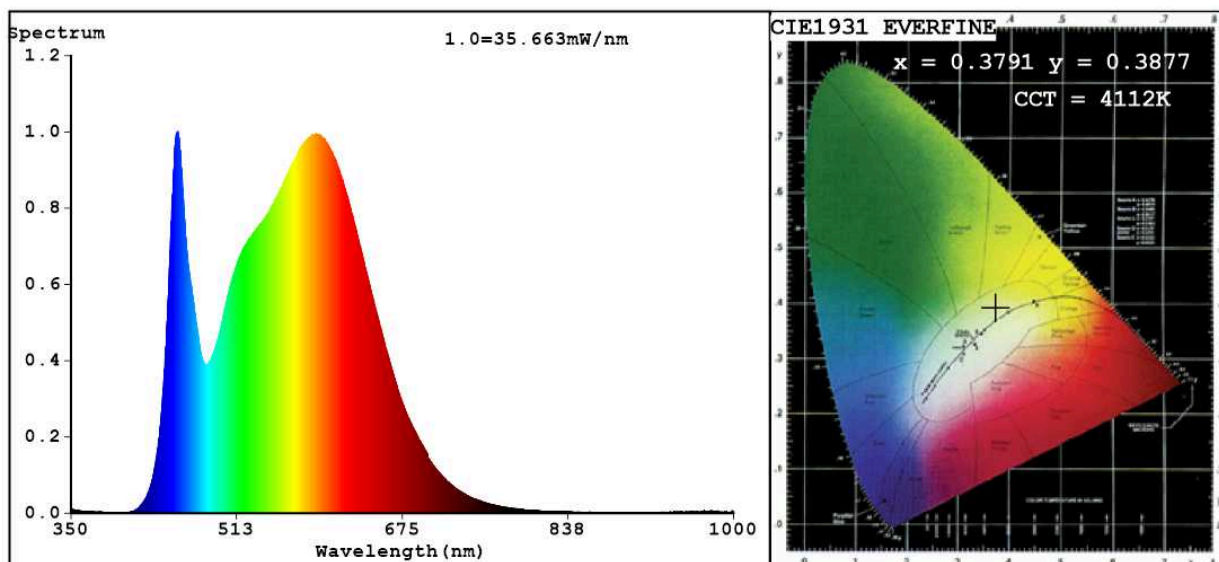
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	20	Energy efficiency class	F
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	2 100 in Sphere (360°)	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	19,4	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	83
Outer dimensions without	Height	Spectral power distribution in the	See image in last page
	Width		
	Depth		

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)	Yes	If yes, equivalent power (W)	130	
		Chromaticity coordinates (x and y)	0,379 0,387	
Parameters for LED and OLED light sources:				
R9 colour rendering index value	8	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)	120	
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: $x=0.3791$ $y=0.3877$ / $u'=0.2200$ $v'=0.5061$

$CCT=4112K$ ($Duv=0.0054$) Dominant WL: $\lambda_d = 576.0nm$ Purity=30.1%

Ratio: R=17.6% G=78.3% B=4.1%; Peak WL: $\lambda_p = 454.4nm$ FWHM=28.5nm

Render Index: $R_a=83.2$

R1 =81	R2 =90	R3 =97	R4 =80	R5 =81	R6 =87	R7 =86
R8 =64	R9 =8	R10=78	R11=79	R12=60	R13=83	R14=98
						R15=74

Photo Parameters:

Flux = 2096 lm Eff. : 107.81 lm/W $\Phi_e = 6.373 W$

Electrical parameters:

$V = 229.92 V$ $I = 0.1451 A$ $P = 19.44 W$ PF = 0.5830

WHITE: ANSI_4000K

Status: Integral T = 19 ms $I_p = 34611 (53\%)$

Model: LED TUBE T5/20W
Tester: Petya Marinova
Temperature: 25.3Deg
Manufacturer: ELMARK

Number: 99LED929
Date: 2018-02-14 16:07
Humidity: 65.0%
Remarks: P171012-1C_4380