

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: 99LED640

Type of light source:

Lighting technology used:	LED	Non-directional or directional:	NDLS
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:	Yes		
Anti-glare shield:	No	Dimmable:	No

Product parameters

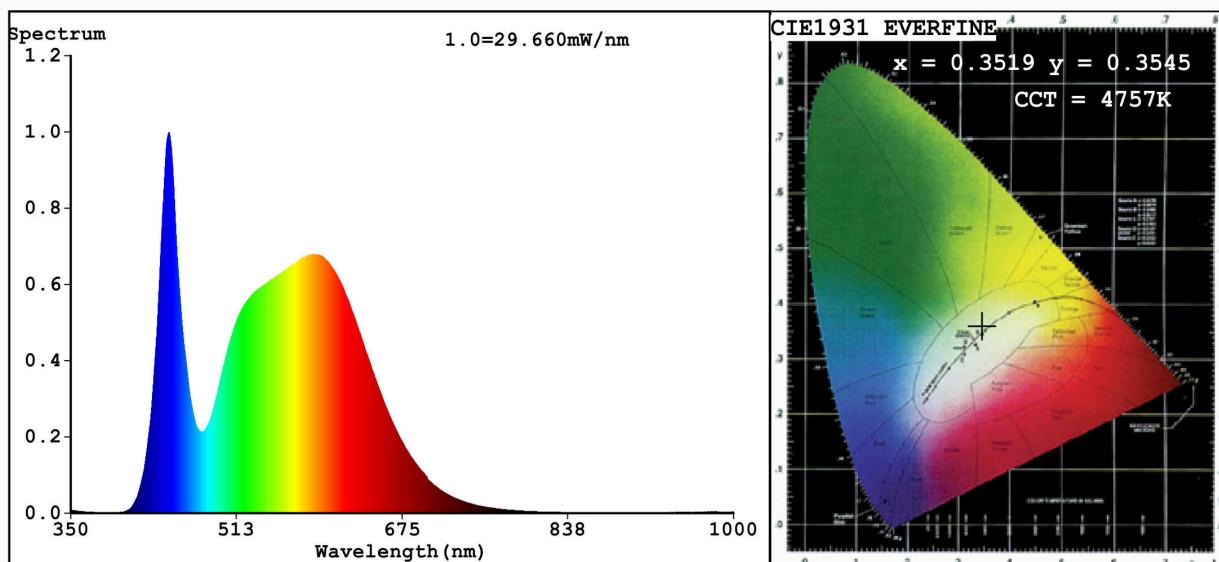
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	18	Energy efficiency class	G
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	1 260 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	18,7	Standby power (P_{sb}), expressed in W and rounded to the second decimal	0,20
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	83
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)	-	If yes, equivalent power (W)	-	
		Chromaticity coordinates (x and y)	0,351 0,354	
Parameters for LED and OLED light sources:				
R9 colour rendering index value	16	Survival factor	0,40	
the lumen maintenance factor	0,93			
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ_1)	0,90	Colour consistency in McAdam ellipses	1	
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)	0,4	Stroboscopic effect metric (SVM)	0,6	

(a) '-': not applicable;

(b) '-': not applicable;

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3519$ $y=0.3545$ $u'=0.2149$ $v'=0.4871$

CCT=4757K (Duv=-0.0012) Dominant WL: $\lambda_d = 576.5\text{nm}$ Purity=12.0%

Ratio: R=16.5% G=79.5% B=3.9%; Peak WL: $\lambda_p = 446.5\text{nm}$ FWHM=24.3nm

Render Index: $R_a = 83.2$

R1 = 83	R2 = 87	R3 = 89	R4 = 84	R5 = 83	R6 = 82	R7 = 87
R8 = 71	R9 = 16	R10 = 68	R11 = 84	R12 = 64	R13 = 83	R14 = 94
						R15 = 78

Photo Parameters:

Flux = 1260 lm Eff. : 67.11 lm/W $P_e = 3.998\text{ W}$

Electrical parameters:

V = 230.01 V I = 0.08585 A P = 18.77 W PF = 0.9506

WHITE: ANSI_5000K

Status: Integral T = 36 ms $I_p = 45894$ (70%)

Model: LED GLASS PANEL ROUND/18W
Tester: Petya Marinova
Temperature: 25.3Deg
Manufacturer: ELMARK

Number: 99LED640
Date: 2018-03-13 11:31
Humidity: 65.0%
Remarks: 017V068A_4469