

# 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:** 99LED965F

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

## Product parameters

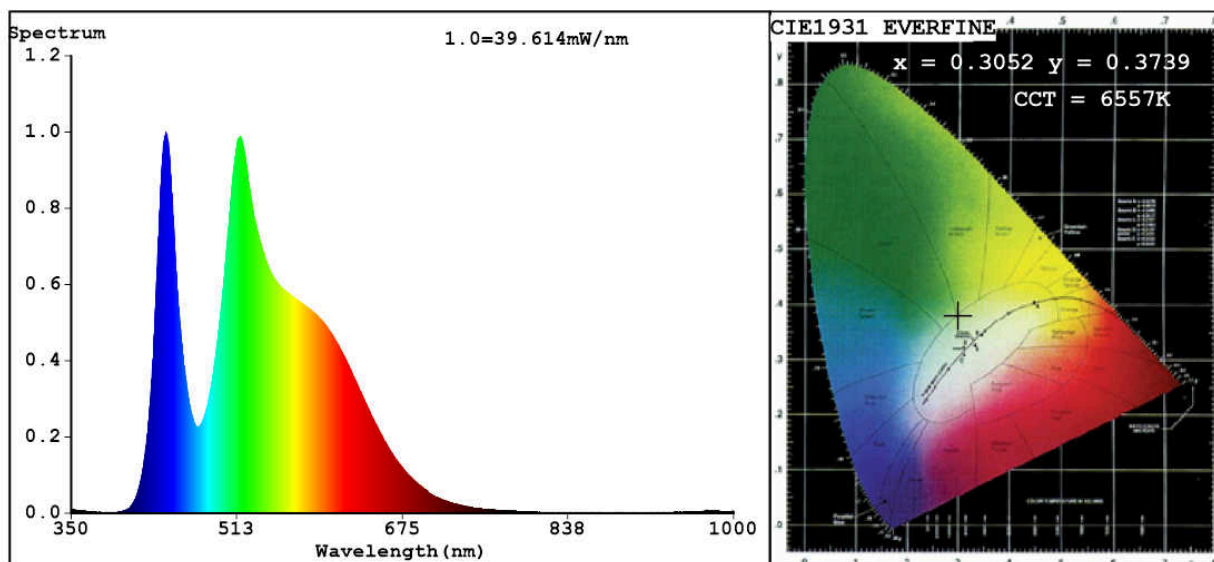
Parameter	Value	Parameter	Value
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	18	Energy efficiency class	F
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	1 650 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	6 500
On-mode power ( $P_{on}$ ), expressed in W	16,2	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	78
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 <sup>(a)</sup>	-	If yes, equivalent power (W)	-	
		Chromaticity coordinates (x and y)	0,305 0,373	
<b>Parameters for LED and OLED light sources:</b>				
R9 colour rendering index value	0	Survival factor	0,50	
the lumen maintenance factor	0,93			
<b>Parameters for LED and OLED mains light sources:</b>				
displacement factor (cos $\phi_1$ )	0,90	Colour consistency in McAdam ellipses	0	
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)	0,6	Stroboscopic effect metric (SVM)	0,2	

(a) : not applicable;

(b) : not applicable;

## Spectrum Test Report



### Color Parameters:

Chromaticity Coordinate:  $x=0.3052$   $y=0.3739$   $u'=0.1775$   $v'=0.4894$

CCT=6557K(Duv=0.0279) Dominant WL:Ld =512.1nm Purity=9.1%

Ratio:R=11.5% G=84.0% B=4.6%; Peak WL:Lp=442.8nm FWHM=24.4nm

Render Index:Ra=78.8

R1 =72	R2 =78	R3 =95	R4 =79	R5 =75	R6 =78	R7 =89
R8 =64	R9 =0	R10=59	R11=78	R12=63	R13=72	R14=98
						R15=61

### Photo Parameters:

Flux = 1706 lm Eff. : 105.17 lm/W Fe = 5.210 W

### Electrical parameters:

V = 229.96 V I = 0.07360 A P = 16.22 W PF = 0.9585

WHITE:OUT

Status: Integral T = 13 ms Ip = 33813 (52%)

Model:FRESH LIGHT LED/18W  
Tester:Petya Marinova  
Temperature:25.3Deg  
Manufacturer:ELMARK

Number:99LED965F  
Date:2018-10-10 11:35  
Humidity:65.0%  
Remarks:018VA023\_4918