

# 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:** 99LED644

**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:	Yes		
Anti-glare shield:	No	Dimmable:	No

## Product parameters

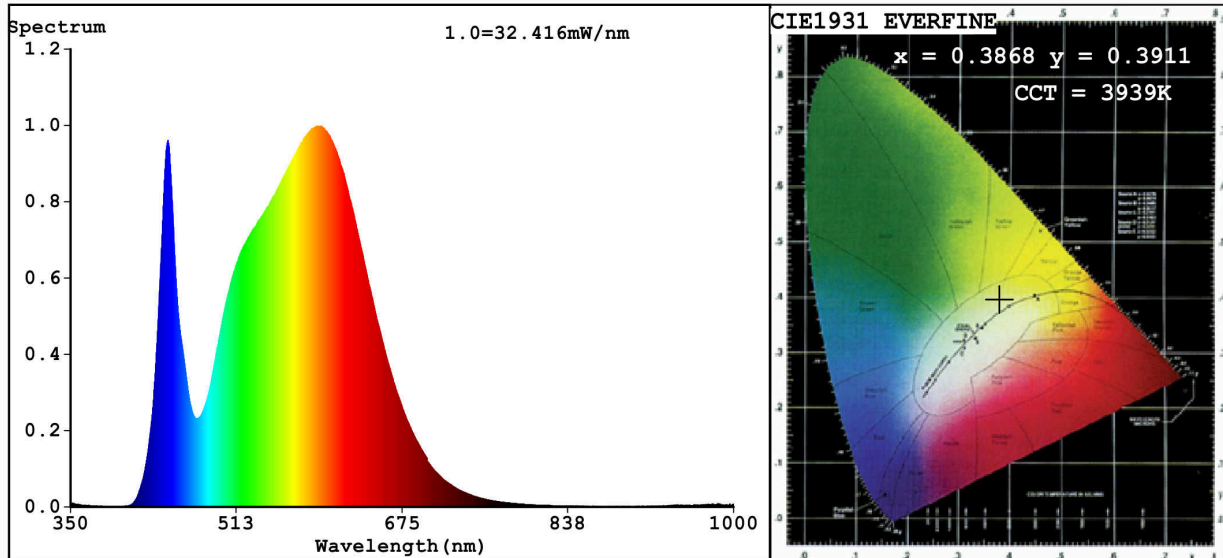
Parameter	Value	Parameter	Value
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	18	Energy efficiency class	F
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	1 500 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	18,9	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	80
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 <sup>(a)</sup>	-	If yes, equivalent power (W)	-	
		Chromaticity coordinates (x and y)	0,386 0,391	
<b>Parameters for directional light sources:</b>				
Peak luminous intensity (cd)	469	Beam angle in degrees, or the range of beam angles that can be set	108	
<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 $\phi_1$ )	0,50	Colour consistency in McAdam ellipses	5	
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:  $x=0.3868$   $y=0.3911$   $u'=0.2236$   $v'=0.5087$   
 CCT=3939K (Duv=0.0048) Dominant WL:  $\lambda_d = 577.1\text{nm}$  WL:  $\lambda_c = \text{--nm}$  Purity=33.5%  
 Ratio: R=17.9% G=78.9% B=3.2%; Peak WL:  $\lambda_p = 591.8\text{nm}$  FWHM=150.6nm  
 Render Index:  $R_a = 80.9$

R1 =78	R2 =86	R3 =93	R4 =81	R5 =79	R6 =82	R7 =86
R8 =62	R9 =0	R10=67	R11=81	R12=63	R13=80	R14=96
						R15=71

### Photo Parameters:

Flux = 1885 lm    Eff. : 99.63 lm/W     $P_e = 5.609\text{ W}$

### Electrical parameters:

V = 219.93 V    I = 0.1562 A    P = 18.92 W PF = 0.5509

WHITE: ANSI\_4000K

Status: Integral T = 31 ms     $I_p = 50578$  (77%)

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

Number: 99LED644  
 Date: 2020-10-16 10:08:44  
 Humidity: 65.0%  
 Remarks: 6943