

# 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:** 99FM604020/BL

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

## Product parameters

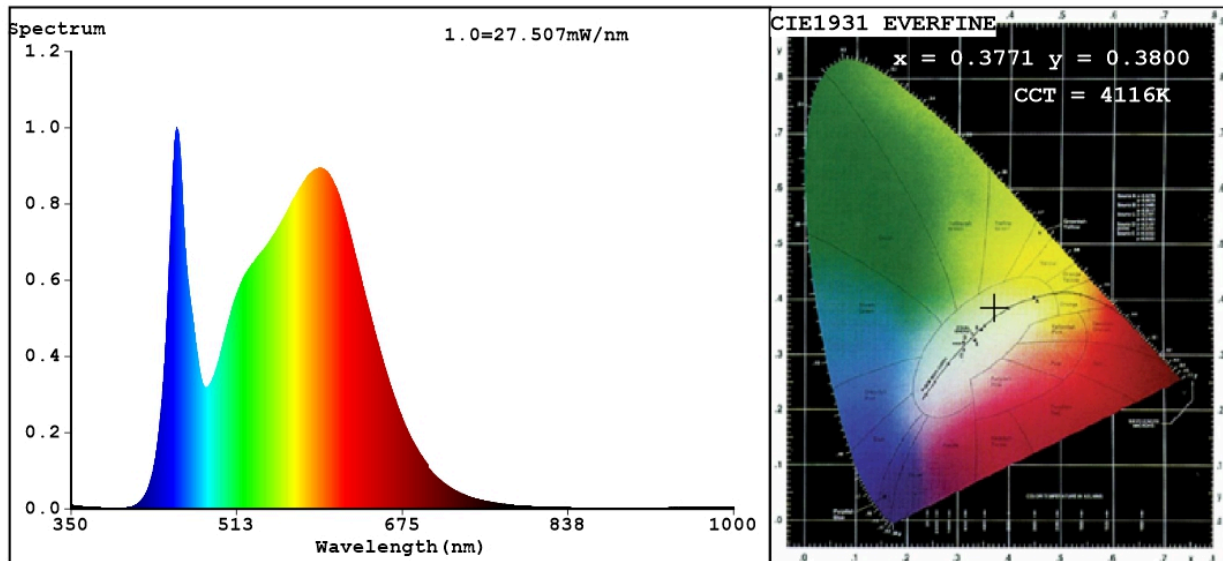
Parameter	Value	Parameter	Value
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	20	Energy efficiency class	F
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	1 500 in Narrow cone (90°)	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	24,0	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	-	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 <sup>(a)</sup>	-	If yes, equivalent power (W)	-	
		Chromaticity coordinates (x and y)	0,377 0,380	
<b>Parameters for directional light sources:</b>				
Peak luminous intensity (cd)	453	Beam angle in degrees, or the range of beam angles that can be set	90	
<b>Parameters for LED and OLED light sources:</b>				
R9 colour rendering index value	7	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	4	
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)	0,5	Stroboscopic effect metric (SVM)	0,2	

(a) - : not applicable;

(b) - : not applicable;

## Spectrum Test Report



### Color Parameters:

Chromaticity Coordinate:  $x=0.3771$   $y=0.3800$   $u'=0.2216$   $v'=0.5025$   
 CCT=4116K (Duv=0.0025) Dominant WL:  $L_d = 577.3nm$  WL:  $L_c = --nm$  Purity=27.2%  
 Ratio: R=17.9% G=78.2% B=4.0%; Peak WL:  $L_p = 453.7nm$  FWHM=24.8nm  
 Render Index:  $R_a = 83.2$  AvgR=76.5 TM30:  $R_f = 84$   $R_g = 93$   $L_{av} = 567.9nm$

R1 =81	R2 =91	R3 =96	R4 =80	R5 =81	R6 =87	R7 =86
R8 =64	R9 =7	R10=78	R11=79	R12=60	R13=84	R14=98 R15=75

### Photo Parameters:

Flux = 1430 lm Eff. : 57.21 lm/W  $F_e = 4.338 W$

### Electrical parameters:

V = 225.25 V I = 0.2178 A P = 24.99 W PF = 0.5094

WHITE: ANSI\_4000K

Status: Integral T = 37 ms  $I_p = 44723 (68\%)$

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

Number: 99FM604020  
 Date: 2022-01-26 13:20:13  
 Humidity: 65.0%  
 Remarks: