

# 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:** 99SM604012/GR

## 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

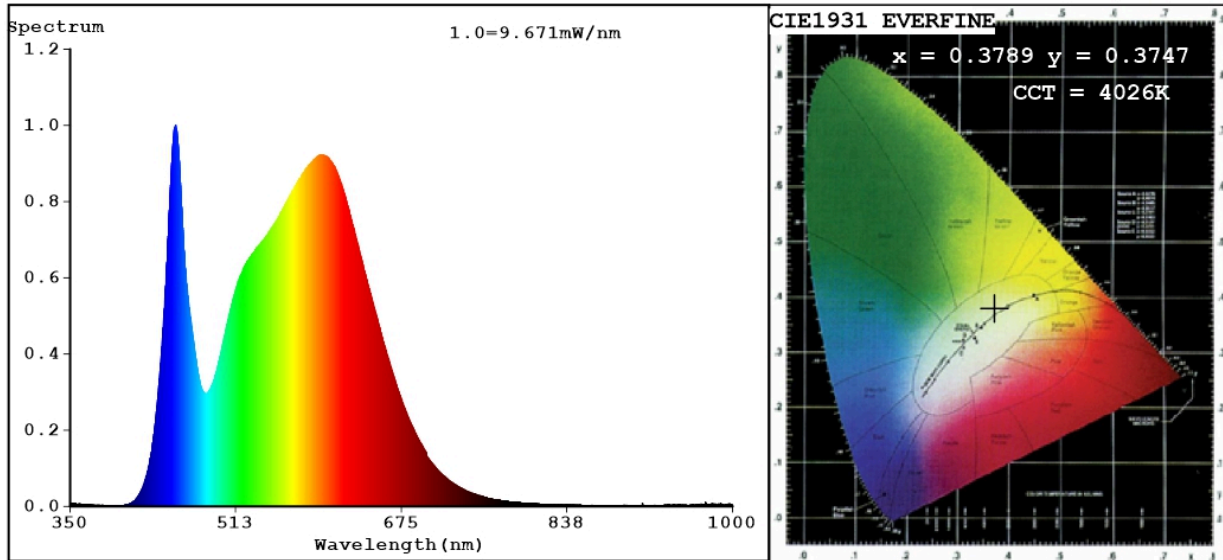
Parameter	Value	Parameter	Value
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	12	Energy efficiency class	G
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	600 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	15,8	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	84
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)	0,378 0,374	
<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	18	Survival factor	0,50	
the lumen maintenance factor	0,93			
<b>Parameters for LED and OLED mains light sources:</b>				
displacement factor (cos $\phi_1$ )	0,35	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)	0,5	Stroboscopic effect metric (SVM)	0,2	

(a) : not applicable;

(b) : not applicable;

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3789$   $y=0.3747$  /  $u'=0.2249$   $v'=0.5004$   
 CCT=4026K (Duv=-0.0005) Dominant WL:Ld =579.3nm WL:Lc = --nm Purity=26.1%  
 Ratio:R=18.6% G=77.6% B=3.8%; Peak WL:Lp=453.7nm FWHM=25.8nm  
 Render Index:Ra=84.8 AvgR=78.8 TM30:Rf=85 Rg=96 Lav=570.3nm

R1 =84    R2 =91    R3 =95    R4 =83    R5 =83    R6 =87    R7 =87  
 R8 =68    R9 =18    R10=78    R11=82    R12=64    R13=86    R14=98    R15=78

**Photo Parameters:**

Flux = 517.0 lm    Eff. : 32.67 lm/W    Fe = 1.608 W

**Electrical parameters:**

V = 225.26 V    I = 0.1993 A    P = 15.82 W PF = 0.3525

WHITE:ANSI\_4000K

Status: Integral T = 118 ms    Ip = 51178 (78%)

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

Number:99BM604012 BL  
 Date:2022-01-26 13:00:48  
 Humidity:65.0%  
 Remarks: