

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/WHE

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

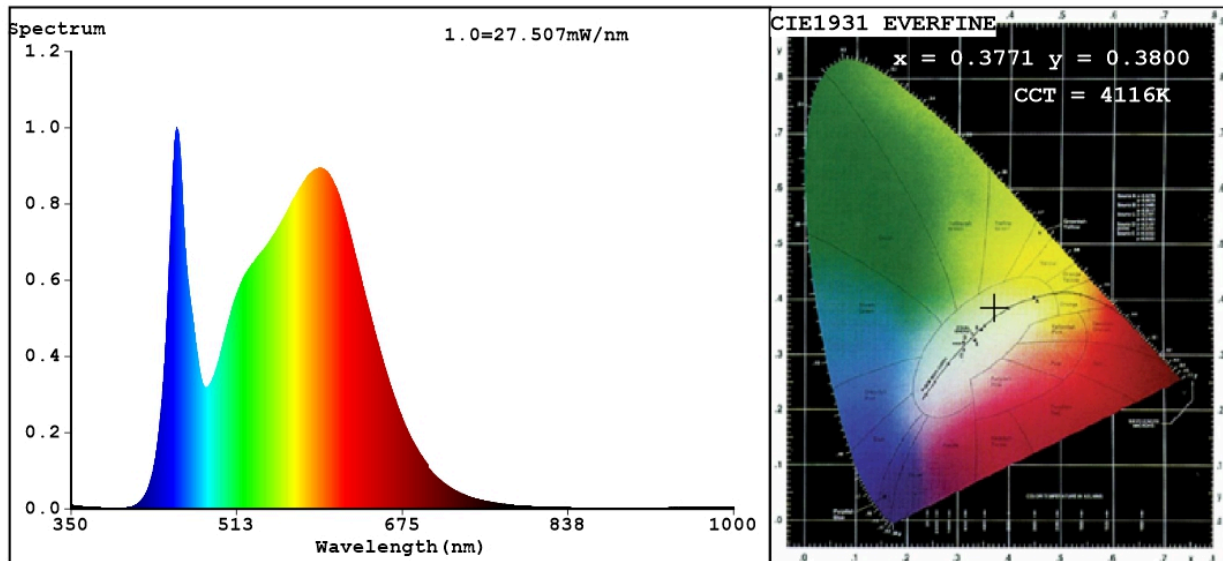
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	20	Energy efficiency class	F
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	1 500 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 ^(a)	-	If yes, equivalent power (W)	-	
		Chromaticity coordinates (x and y)	0,377 0,380	
Parameters for directional light sources:				
Peak luminous intensity (cd)	453	Beam angle in degrees, or the range of beam angles that can be set	90	
Parameters for LED and OLED light sources:				
R9 colour rendering index value	7	Survival factor	0,50	
the lumen maintenance factor	0,93			
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ_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: