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/WH

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

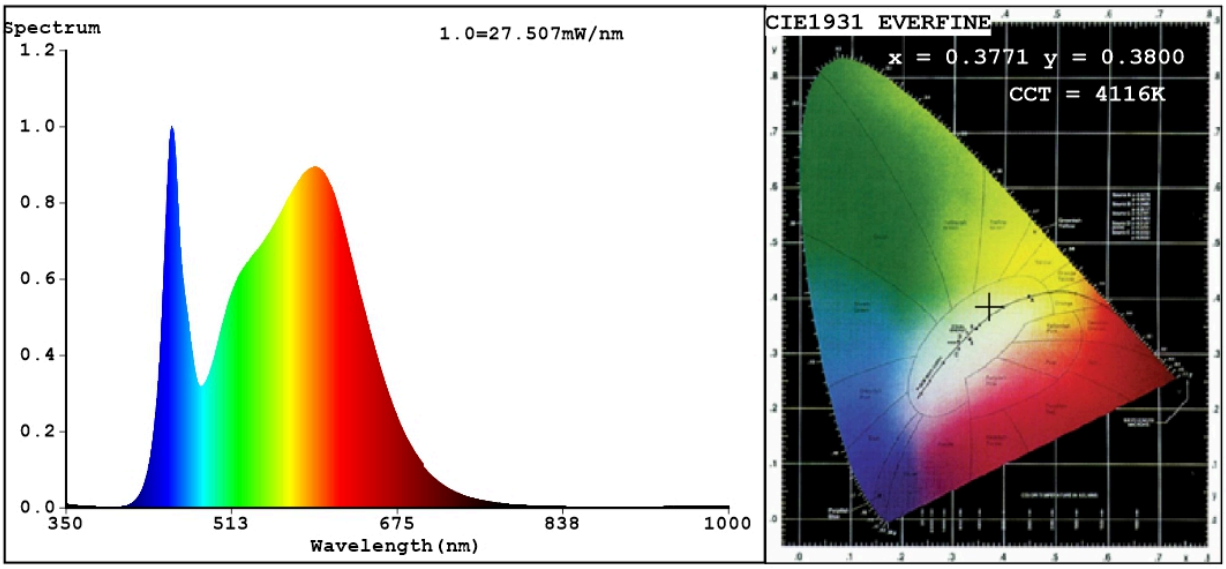
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	20	Energy efficiency class	F
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)	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	600	Spectral power distribution in the	See image in last page
Outer dimensions without — Width	70		
Outer dimensions without — Depth	48		

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 ϕ1)		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:Ld =577.3nm WL:Lc = --nm Purity=27.2%

Ratio:R=17.9% G=78.2% B=4.0%¡¡Peak WL:Lp=453.7nm FWHM=24.8nm

Render Index:Ra=83.2 AvgR=76.5 TM30:Rf=84 Rg=93 Lav=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 Fe = 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 Ip = 44723 (68%)

Model:LED INDOOR LIGHTING	Number:99FM604020
Tester:Atanas DAKOV	Date:2022-01-26 13:20:13
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks: