

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: 92FLCOM2040/WH

Type of light source:

Lighting technology used:	LED	Non-directional or directional:	DLS
Light source cap-type (or other electric interface)	COB		
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

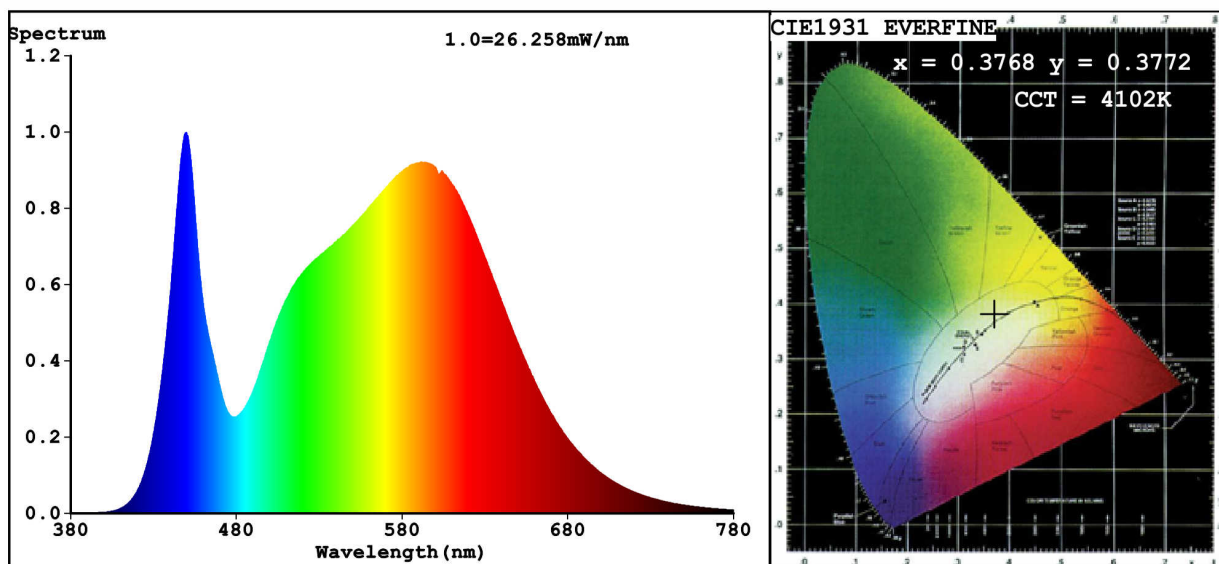
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	20	Energy efficiency class	F
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	1 500 in Nar-row 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	20,0	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	0,50	Colour rendering index, rounded to the nearest integer, or the range of CRI-values that can be set	81
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 ^(a)	-	If yes, equivalent power (W)	-	
		Chromaticity coordinates (x and y)	0,376 0,377	
Parameters for directional light sources:				
Peak luminous intensity (cd)	2 351	Beam angle in degrees, or the range of beam angles that can be set	43	
Parameters for LED and OLED light sources:				
R9 colour rendering index value	3	Survival factor	1,00	
the lumen maintenance factor	0,99			
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)	0,4	Stroboscopic effect metric (SVM)	0,6	

(a) - : not applicable;

(b) - : not applicable;

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3768$ $y=0.3772$ $u'=0.2225$ $v'=0.5013$

$CCT=4102K$ ($Duv=0.0013$) Dominant WL: $Ld = 577.9nm$ Purity=26.3%

Ratio: $R=17.7\%$ $G=78.7\%$ $B=3.5\%$; Peak WL: $Lp=449.9nm$ FWHM=23.5nm

Render Index: $Ra=81.8$

R1 =80	R2 =87	R3 =94	R4 =81	R5 =80	R6 =83	R7 =86
R8 =63	R9 =3	R10=70	R11=80	R12=62	R13=81	R14=97
						R15=73

Photo Parameters:

Flux = 1410 lm Eff. : 69.58 lm/W $Fe = 4.237 W$

Electrical parameters:

$V = 230.00 V$ $I = 0.1663 A$ $P = 20.27 W$ PF = 0.5297

WHITE:ANSI_4000K

Status: Integral T = 34 ms $I_p = 52939 (81\%)$

Model:FLCOM COB/20W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:92FLCOM2040/WH
Date:2019-07-04 13:24
Humidity:65.0%
Remarks:EI0011901_5744