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/BL

Type of light source:

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

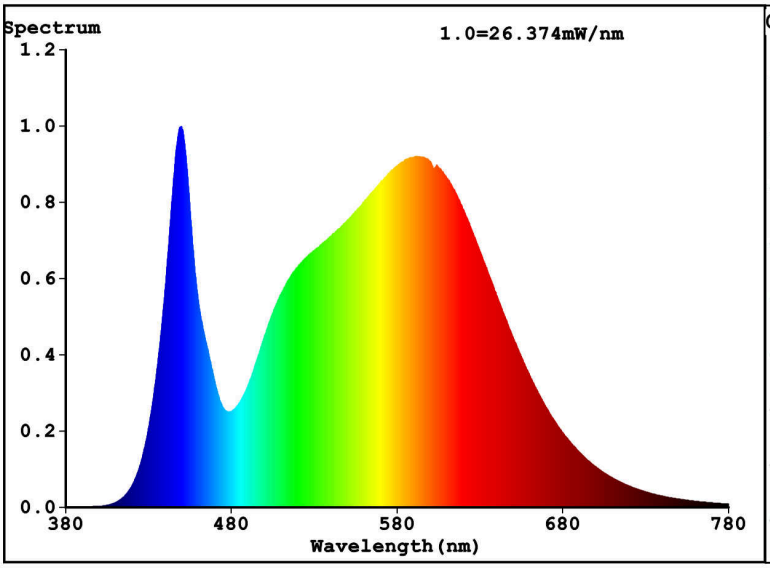
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	20	Energy efficiency class	F
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)	1 600 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	20,0	Standby power (P_{sb}), expressed in W and rounded to the second decimal	0,20
Networked standby power (P_{net}) for CLS, expressed in W and rounded to the second decimal	0,20	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	130	Spectral power distribution in the range 250 nm to 800 nm, at full-load	See image in last page
Outer dimensions without separate control gear, lighting control — Width	110		
Outer dimensions without separate control gear, lighting control — Depth	110		

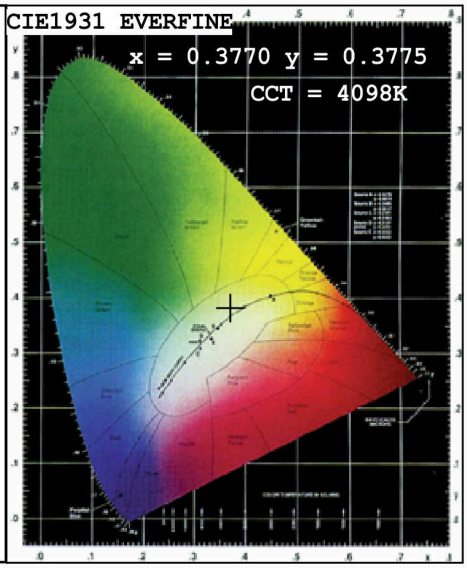
parts and non-lighting control parts, if any (millimetre)				
Claim of equivalent power[(a)]		-	If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,377 0,377
Parameters for directional light sources:				
Peak luminous intensity (cd)		2 485	Beam angle in degrees, or the range of beam angles that can be set	42
Parameters for LED and OLED light sources:				
R9 colour rendering index value		3	Survival factor	0,80
the lumen maintenance factor		1,00		
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ1)		0,50	Colour consistency in McAdam ellipses	1
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)		0,0	Stroboscopic effect metric (SVM)	0,0

[(a)] '-' : not applicable;

[(b)] '-' : not applicable;

Spectrum Test Report





Color Parameters:

Chromaticity Coordinate:x=0.3770 y=0.3775/u'=0.2226 v'=0.5014

CCT=4098K(Duv=0.0013) Dominant WL:Ld =577.9nm Purity=26.4%

Ratio:R=17.8% G=78.7% B=3.5%¡¡Peak WL:Lp=449.9nm FWHM=23.3nm

Render Index:Ra=81.8

R1 =80	R2 =87	R3 =94	R4 =82	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 = 1415 lm Eff. : 69.69 lm/W Fe = 4.249 W

Electrical parameters:

V = 230.03 V I = 0.1665 A P = 20.30 W PF = 0.5299

WHITE:ANSI_4000K

Status: Integral T = 34 ms Ip = 53118 (81%)

Model:FLCOM COB/20W	Number:92FLCOM2040/BL
Tester:Petya Marinova	Date:2019-07-04 13:23
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:EI0011901_5744