

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: 93M20FFL1230/BL

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:	NMLS	Connected light source (CLS):	Yes
Colour-tuneable light source:	No	Envelope:	-
High luminance light source:	Yes		
Anti-glare shield:	No	Dimmable:	No

Product parameters

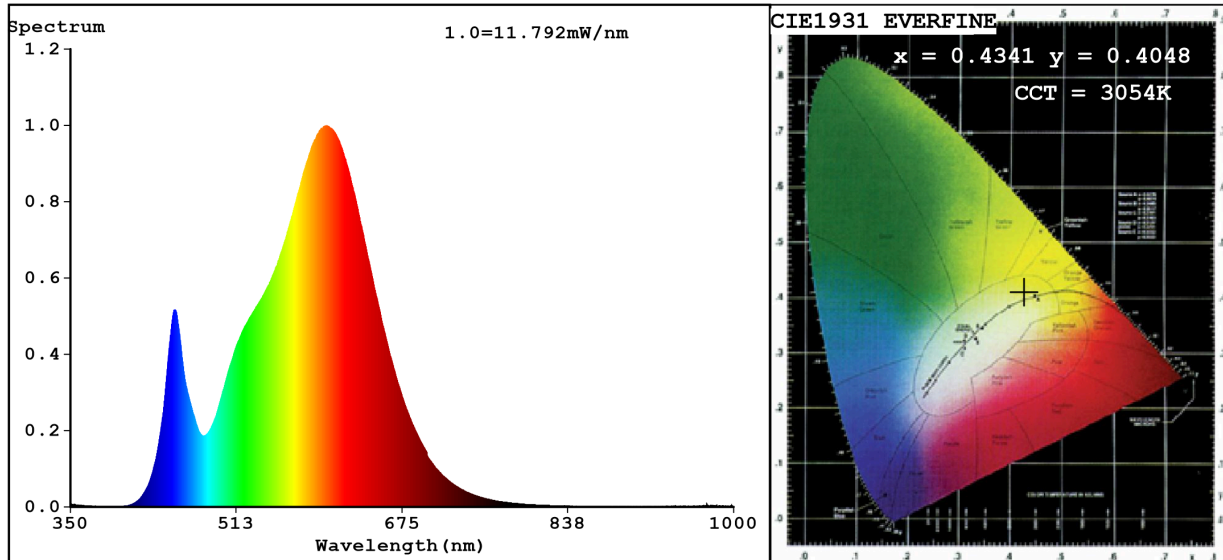
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	12	Energy efficiency class	G
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	700 in Wide cone (120°)	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	3 000
On-mode power (P_{on}), expressed in W	16,0	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	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)	0,434 0,404	
Parameters for directional light sources:				
Peak luminous intensity (cd)	211	Beam angle in degrees, or the range of beam angles that can be set	105	
Parameters for LED and OLED light sources:				
R9 colour rendering index value	0	Survival factor	0,50	
the lumen maintenance factor	0,95			

(a) : not applicable;

(b) : not applicable;

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4341$ $y=0.4048$ $u'=0.2484$ $v'=0.5213$
 $CCT=3054K$ ($Duv=0.0007$) Dominant WL: $L_d = 582.3nm$ WL: $L_c = --nm$ Purity=51.8%
 Ratio: $R=22.3\%$ $G=75.2\%$ $B=2.5\%$ Peak WL: $L_p=599.5nm$ FWHM=128.0nm
 Render Index: $R_a=81.1$

R1 =79	R2 =90	R3 =96	R4 =79	R5 =79	R6 =87	R7 =82
R8 =57	R9 =0	R10=76	R11=77	R12=68	R13=81	R14=99 R15=71

Photo Parameters:

Flux = 582.0 lm Eff. : 34.94 lm/W $F_e = 1.744 W$

Electrical parameters:

$V = 229.73 V$ $I = 0.1635 A$ $P = 16.66 W$ PF = 0.4434

WHITE:ANSI_3000K

Status: Integral T = 61 ms $I_p = 35217 (54\%)$

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

Number:93M20FFL1230 BL
 Date:2022-10-20 14:26:32
 Humidity:65.0%
 Remarks:8751