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: 93PFLD2030/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:	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

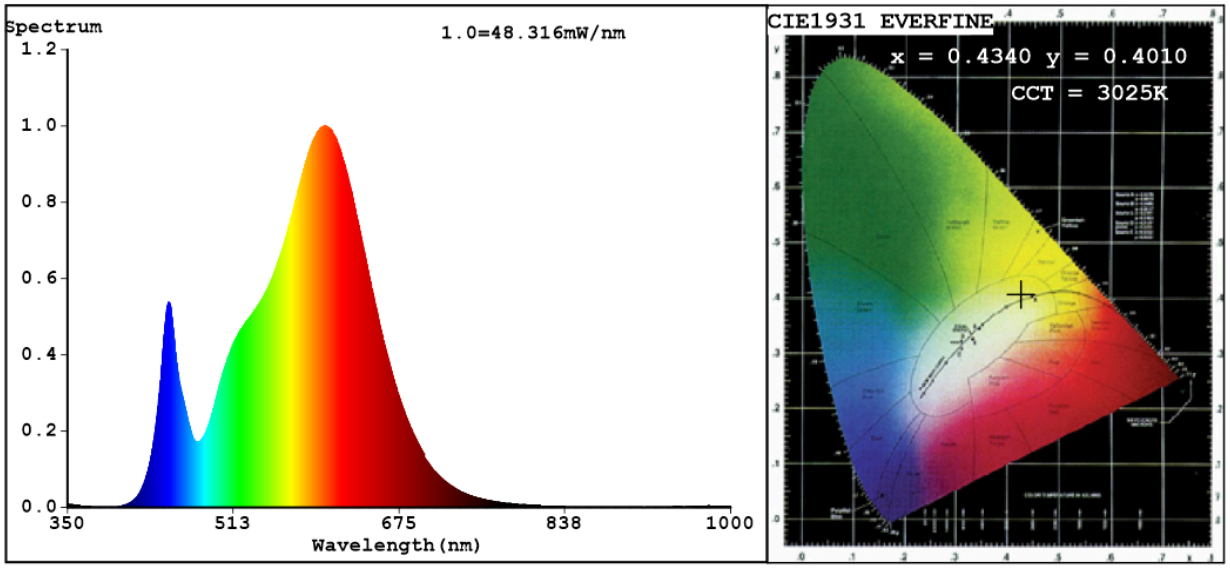
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	20	Energy efficiency class	E
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)	2 200 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	3 000
On-mode power (P_{on}), expressed in W	19,8	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	83
Outer dimensions without separate control gear, lighting control — Height	138	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	36		
Outer dimensions without separate control gear, lighting control — Depth	150		

parts and non-lighting control parts, if any (millimetre)				
Claim of equivalent power[(a)]		-	If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,437 0,400
Parameters for directional light sources:				
Peak luminous intensity (cd)		2 209	Beam angle in degrees, or the range of beam angles that can be set	67
Parameters for LED and OLED light sources:				
R9 colour rendering index value		8	Survival factor	0,50
the lumen maintenance factor		0,95		
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ1)		0,40	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=0.4340 y=0.4010/u'=0.2500 v'=0.5197

CCT=3025K(Duv=-0.0008) Dominant WL:Ld =583.0nm WL:Lc = --nm Purity=50.6%

Ratio:R=22.7% G=74.8% B=2.5%¡¡Peak WL:Lp=602.1nm FWHM=125.1nm

Render Index:Ra=82.1

R1 =80	R2 =91	R3 =96	R4 =81	R5 =81	R6 =89	R7 =82	
R8 =57	R9 =3	R10=79	R11=81	R12=73	R13=83	R14=99	R15=73

Photo Parameters:

Flux = 2346 lm Eff. : 118.07 lm/W Fe = 7.094 W

Electrical parameters:

V = 229.33 V I = 0.1630 A P = 19.87 W PF = 0.5316

WHITE:ANSI_3000K

Status: Integral T = 17 ms Ip = 44702 (68%)

Model:LED INDOOR LIGHTING	Number:93PFLD2030 BL
Tester:Atanas DAKOV	Date:2022-09-14 10:07:13
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:8817