

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: 93PFLD2040/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 (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	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	4 000
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	82
Outer dimensions without separate control gear, lighting control	Height	138	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	36	
	Depth	150	
			See image in last page

parts and non-lighting control parts, if any (millimetre)			
Claim of equivalent power ^(a)	-	If yes, equivalent power (W)	-
		Chromaticity coordinates (x and y)	0,382 0,383
Parameters for directional light sources:			
Peak luminous intensity (cd)	2 203	Beam angle in degrees, or the range of beam angles that can be set	60
Parameters for LED and OLED light sources:			
R9 colour rendering index value	0	Survival factor	0,50
the lumen maintenance factor	0,95		
Parameters for LED and OLED mains light sources:			
displacement factor (cos ϕ_1)	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;

Lightsource Test Report

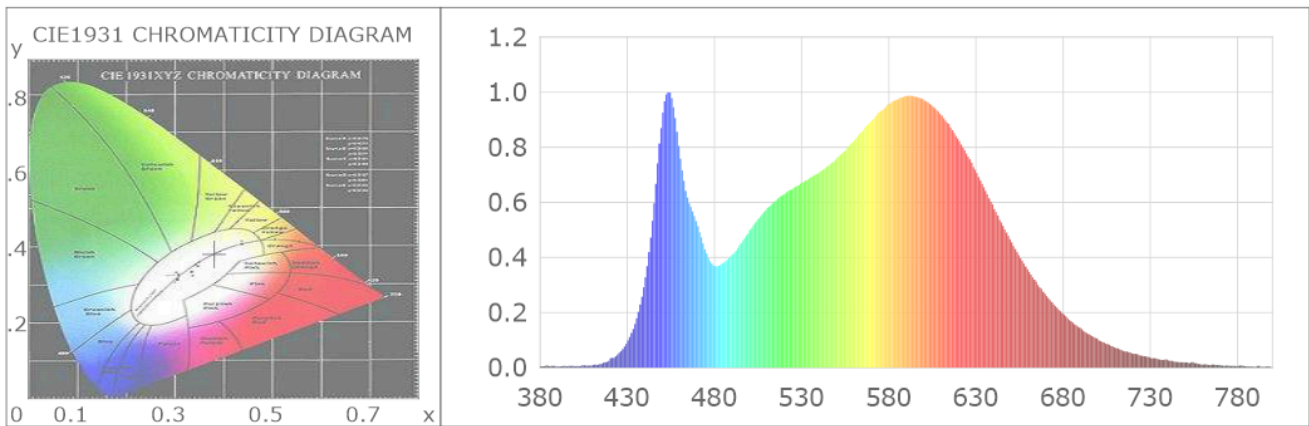
Product Information

Product Number: 5

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3820$ $y=0.3835$ $u(u')=0.2235$ $v=0.3365$ $v'=0.5047$
 CCT: $T_c=4007K$ ($duv=0.00266$) Color Ratio: $R=0.180$ $G=0.779$ $B=0.041$
 Peak Wavelength: 454nm Half Bandwidth: 26.5nm
 Dominant Wavelength: 577.7nm Color Purity: 0.297
 CRI: R_i : $R_a=82.2$

R1 =80	R2 =91	R3 =96	R4 =79	R5 =81	R6 =88	R7 =83	R8 =60
R9 =0	R10=79	R11=78	R12=63	R13=83	R14=98	R15=73	



Photometric Parameters

Luminous Flux: 2121.9 lm Efficiency: 114.70 lm/W Radiant Power: 6.308 W

Electric Parameters

Voltage: 220.70V Current: 0.1700A Power: 18.50W
 Power Factor: 0.4910 Frequency: 50.00Hz

Test Information

Scan Range: 380nm~800nm:1nm	Photometric Method:
Stabilization Time: 6 Sec	Photometric Condition: Sphere diameter: 1.50m, 4 π
Max of Signal: 44856 (2864)	CCD Integration Time: 461.43 ms

Condition: $T_x:25.3^{\circ}C$, $T_i:25.3^{\circ}C$
 Test Lab:
 Operator:

Test Device: Inventfine CMS-2S (Plus)
 Test Time: 2022-03-31 19:17:17
 Inspector: