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: 93ZFLD2030/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)	2 000 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	18,7	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	278	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	33		
Outer dimensions without separate control gear, lighting control — Depth	66		

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 0,401
Parameters for directional light sources:				
Peak luminous intensity (cd)		1 979	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;

Lightsource Test Report

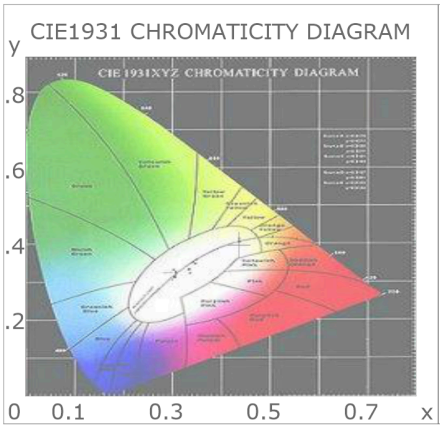
Product Infomation

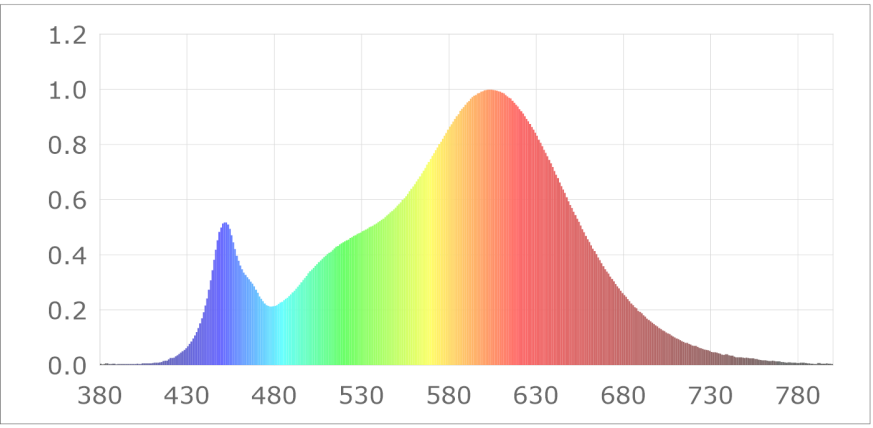
Product Number: 21

CIE Colorimetric Parameters

Chromaticity coordinates: x=0.4377 y=0.4012 u(u')=0.2523 v=0.3469 v'=0.5204
CCT: Tc=2964K (duv=-0.00124) Color Ratio: R=0.234 G=0.738 B=0.028
Peak Wavelength: 604nm Half Bandwidth: 120.9nm
Dominant Wavelength: 583.4nm Color Purity: 0.518
CRI: Ri: Ra= 83.1

R1 =82	R2 =93	R3 =94	R4 =81	R5 =83	R6 =93	R7 =80	R8 =58
R9 =8	R10=84	R11=82	R12=77	R13=85	R14=98	R15=74	





Photometric Parameters

Luminous Flux: 1951.8 lm Efficiency: 104.37 lm/W Radiant Power: 5.938 W

Electric Parameters

Voltage: 220.60V Current: 0.1750A Power: 18.70W
Power Factor: 0.4830 Frequency: 50.00Hz

Test Infomation
Scan Range: 380nm~800nm:1nm Photometric Method:
Stabilization Time: 6 Sec Photometric Condition: Sphere diameter: 1.50m, 4∏
Max of Signal: 45464 (3027) CCD Integration Time: 478.94 ms

Condition: Tx:26.5'C, Ti:25.6'C Test Device: Inventfine CMS-2S (Plus)
Test Lab: Test Time: 2022-03-31 19:59:51
Operator: Inspector: