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: 98MADRID150SMD

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

Product parameters

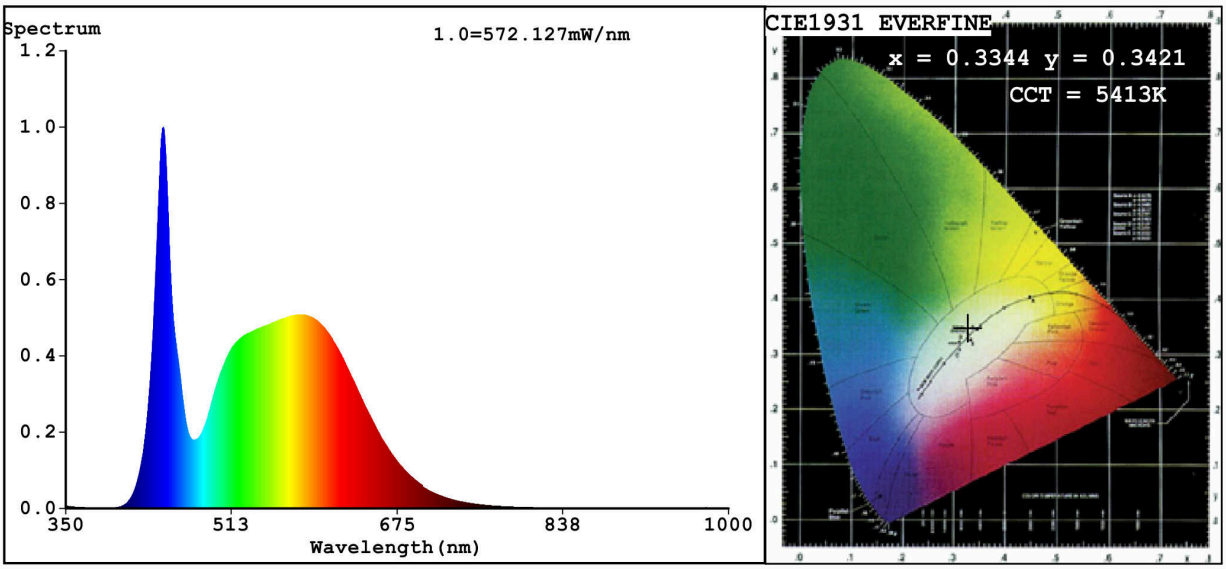
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	150	Energy efficiency class	D
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)	17 550 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	5 000
On-mode power (P_{on}), expressed in W	146,2	Standby power (P_{sb}), expressed in W and rounded to the second decimal	0,00
Networked standby power (P_{net}) for CLS, expressed in W and rounded to the second decimal	-	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	673	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	395		
Outer dimensions without separate control gear, lighting control — Depth	101		

parts and non-lighting control parts, if any (millimetre)				
Claim of equivalent power[(a)]		-	If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,334 0,342
Parameters for directional light sources:				
Peak luminous intensity (cd)		17 867	Beam angle in degrees, or the range of beam angles that can be set	71
Parameters for LED and OLED light sources:				
R9 colour rendering index value		13	Survival factor	0,50
the lumen maintenance factor		0,93		
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ1)		0,90	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=0.3344 y=0.3421/u'=0.2079 v'=0.4783

CCT=5413K(Duv=-0.0004) Dominant WL:Ld =559.6nm WL:Lc = --nm Purity=3.0%

Ratio:R=15.2% G=80.4% B=4.5%¡¡Peak WL:Lp=445.8nm FWHM=19.3nm

Render Index:Ra=82.8

R1 =82	R2 =86	R3 =88	R4 =85	R5 =84	R6 =81	R7 =86	
R8 =71	R9 =13	R10=66	R11=86	R12=67	R13=83	R14=93	R15=78

Photo Parameters:

Flux = 18728 lm Eff. : 128.07 lm/W Fe = 60.04 W

Electrical parameters:

V = 219.73 V I = 0.6761 A P = 146.2 W PF = 0.9843

WHITE:ANSI_5700K

Status: Integral T = 2 ms Ip = 47884 (73%)

Model:LED OUTDOOR LIGHTING	Number:98MADRID150SMD
Tester:Atanas DAKOV	Date:2021-03-19 14:45:59
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:7533