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: 98LED003SW

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

Product parameters

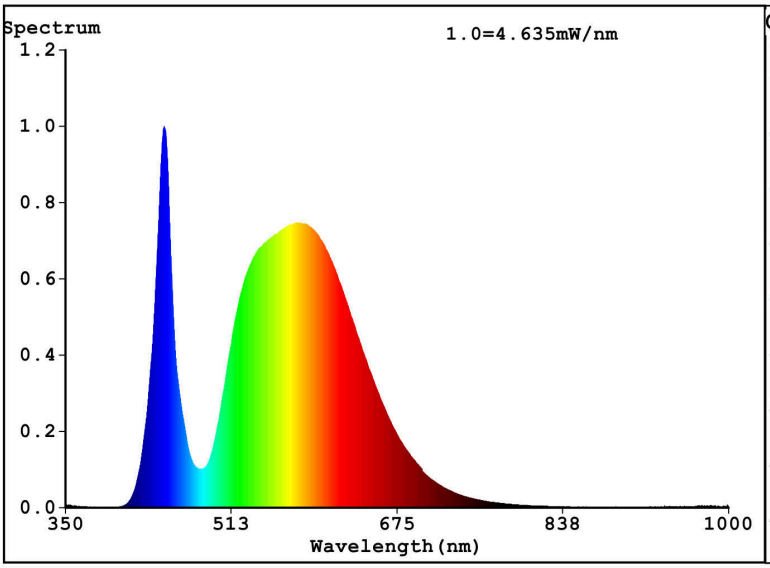
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	3	Energy efficiency class	F
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)	208 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	3,2	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	73
Outer dimensions without — Height	150	Spectral power distribution in the	See image in last page
Outer dimensions without — Width	82		
Outer dimensions without — Depth	82		

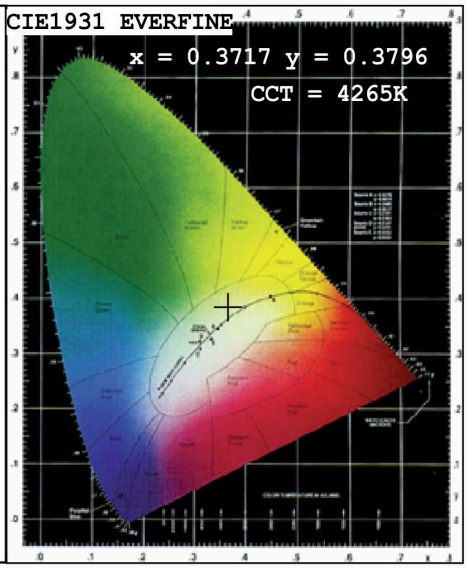
separate control gear, lighting control parts and non-lighting control parts, if any (millimetre)			range 250 nm to 800 nm, at full-load	
Claim of equivalent power[(a)]		-	If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,371 0,379
Parameters for directional light sources:				
Peak luminous intensity (cd)		446	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	0,56
the lumen maintenance factor		0,93		

(a) '-' : not applicable;

(b) '-' : not applicable;

Spectrum Test Report





Color Parameters:

Chromaticity Coordinate:x=0.3717 y=0.3796/u'=0.2183 v'=0.5016

CCT=4265K(Duv=0.0040) Dominant WL:Ld =575.8nm Purity=25.5%

Ratio:R=16.1% G=81.6% B=2.3%¡¡Peak WL:Lp=446.9nm FWHM=18.9nm

Render Index:Ra=73.0

R1 =71	R2 =77	R3 =82	R4 =74	R5 =70	R6 =68	R7 =82	
R8 =59	R9 =0	R10=45	R11=71	R12=41	R13=71	R14=89	R15=66

Photo Parameters:

Flux = 208.0 lm Eff. : 63.51 lm/W Fe = 611.8 mW

Electrical parameters:

V = 11.911 V I = 0.3969 A P = 3.275 W PF = 0.6927

WHITE:ANSI_4500K

Status: Integral T = 201 ms Ip = 51063 (78%)

Model:UNDERWATER LED/3x1W	Number:98LED003SW
Tester:Petya Marinova	Date:2019-02-19 13:15
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:O18V044B_5439