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: 98LED012SW

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

Product parameters

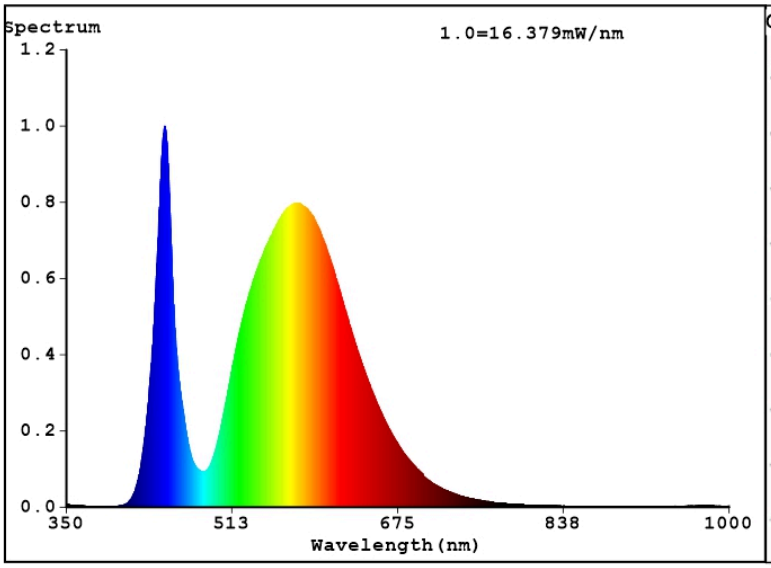
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	12	Energy efficiency class	G
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)	720 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	12,0	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	0,20	Colour rendering index, rounded to the nearest integer, or the range of CRI-values that can be set	68
Outer dimensions without separate control gear, lighting control — Height	140	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	145		
Outer dimensions without separate control gear, lighting control — Depth	145		

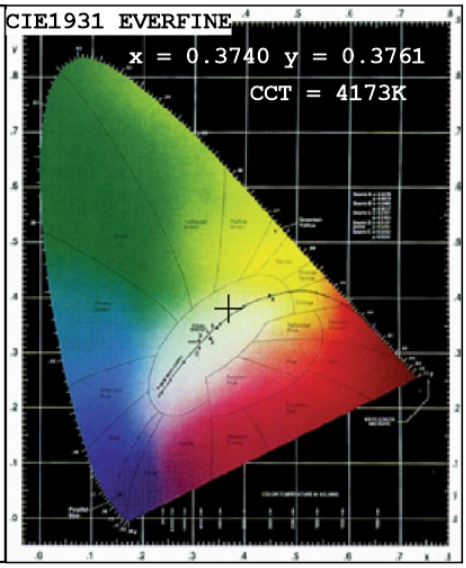
parts and non-lighting control parts, if any (millimetre)				
Claim of equivalent power[(a)]		-	If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,374 0,376
Parameters for directional light sources:				
Peak luminous intensity (cd)		446	Beam angle in degrees, or the range of beam 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		1,00		

[(a)] '-' : not applicable;

[(b)] '-' : not applicable;

Spectrum Test Report





Color Parameters:

Chromaticity Coordinate:x=0.3740 y=0.3761/u'=0.2211 v'=0.5003

CCT=4173K(Duv=0.0016) Dominant WL:Ld =577.4nm Purity=25.1%

Ratio:R=15.6% G=82.1% B=2.2%¡¡Peak WL:Lp=446.6nm FWHM=19.6nm

Render Index:Ra=68.2

R1 =65	R2 =75	R3 =82	R4 =67	R5 =64	R6 =64	R7 =79	
R8 =50	R9 =0	R10=40	R11=61	R12=35	R13=66	R14=90	R15=59

Photo Parameters:

Flux = 725.7 lm Eff. : 57.81 lm/W Fe = 2.088 W

Electrical parameters:

V = 23.921 V I = 0.8372 A P = 12.55 W PF = 0.6268

WHITE:ANSI_4000K

Status: Integral T = 51 ms Ip = 49969 (76%)

Model:UNDERWATER LED LIGHTS/12x1W	Number:98LED012SW
Tester:Petya Marinova	Date:2016-12-12 15:44
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:O16V037B_3303