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: 93TLOM180WW/WH

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:	No		
Anti-glare shield:	No	Dimmable:	No

Product parameters

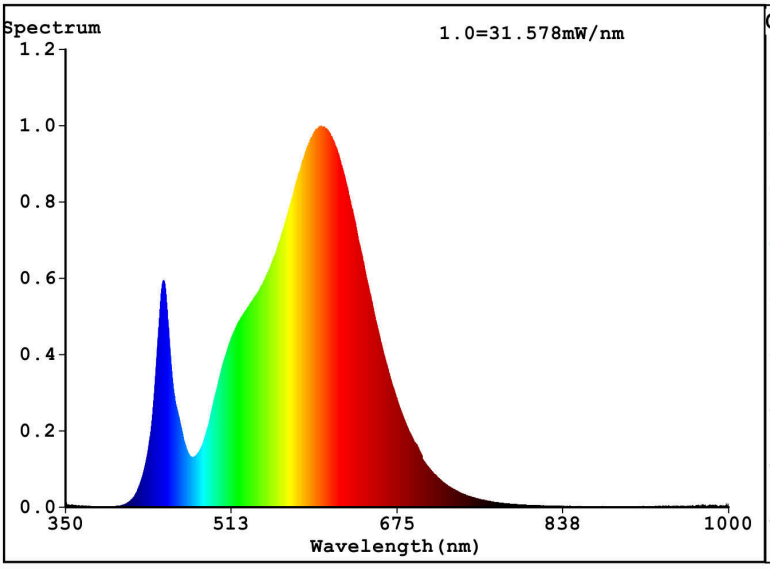
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	20	Energy efficiency class	F
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)	1 800 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	20,8	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	81
Outer dimensions without — Height	130	Spectral power distribution in the	See image in last page
Outer dimensions without — Width	130		
Outer dimensions without — Depth	98		

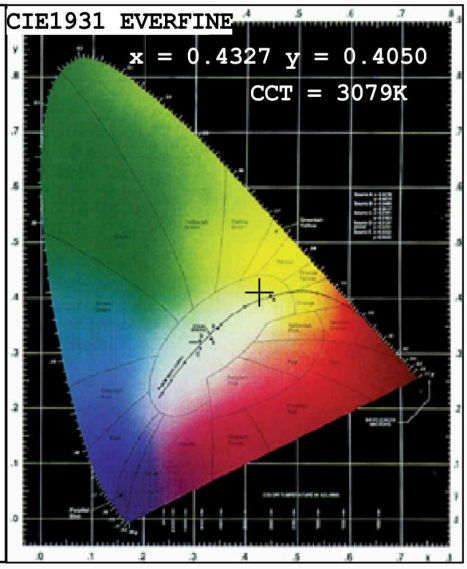
separate control gear, lighting control parts and non-lighting control parts, if any (millimetre)		range 250 nm to 800 nm, at full-load	
Claim of equivalent power[(a)]	-	If yes, equivalent power (W)	-
		Chromaticity coordinates (x and y)	0,428 0,401
Parameters for directional light sources:			
Peak luminous intensity (cd)	601	Beam angle in degrees, or the range of beam angles that can be set	24
Parameters for LED and OLED light sources:			
R9 colour rendering index value	1	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	0
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=0.4327 y=0.4050/u'=0.2475 v'=0.5211

CCT=3079K(Duv=0.0010) Dominant WL:Ld =582.1nm Purity=51.5%

Ratio:R=22.1% G=75.7% B=2.3%¡¡Peak WL:Lp=600.5nm FWHM=130.9nm

Render Index:Ra=80.7

R1 =78	R2 =88	R3 =96	R4 =80	R5 =79	R6 =85	R7 =83	
R8 =57	R9 =0	R10=73	R11=80	R12=68	R13=80	R14=98	R15=70

Photo Parameters:

Flux = 1564 lm Eff. : 73.86 lm/W Fe = 4.657 W

Electrical parameters:

V = 229.92 V I = 0.1012 A P = 21.18 W PF = 0.9105

WHITE:ANSI_3000K

Status: Integral T = 31 ms Ip = 49449 (75%)

Model:SKY TLOM180 COB/20W	Number:93TLOM180WW/GR
Tester:Petya Marinova	Date:2018-02-16 14:54
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:O17V055À_4281