

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/GR

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

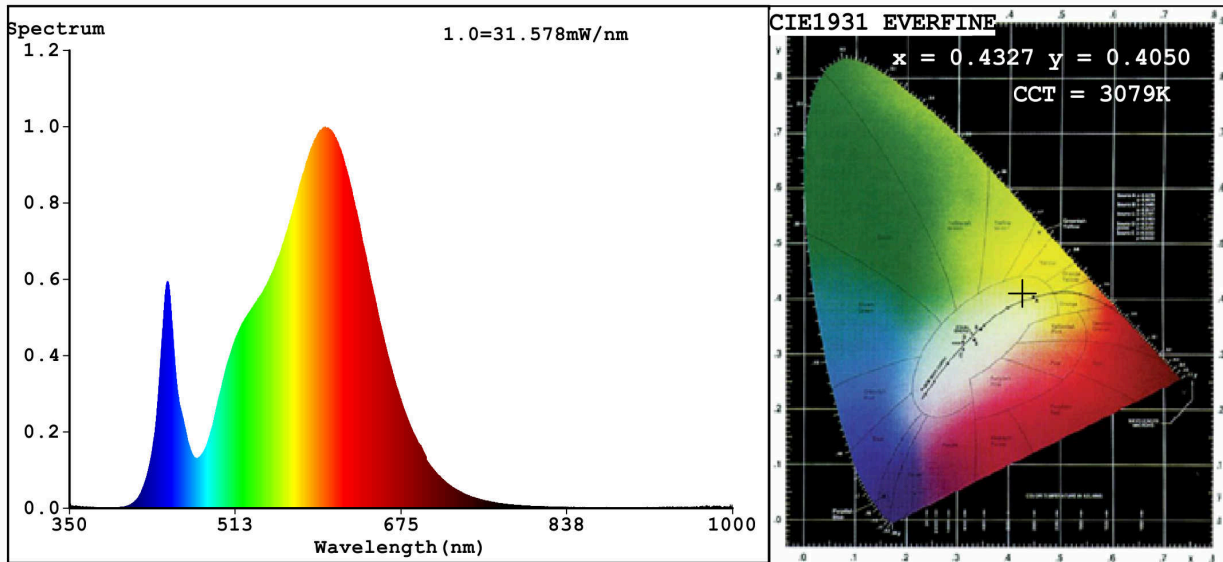
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	20	Energy efficiency class	F
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	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	Spectral power distribution in the	See image in last page
	Width		
	Depth		

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 ϕ_1)	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 TL0M180 COB/20W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:93TL0M180WW/GR
 Date:2018-02-16 14:54
 Humidity:65.0%
 Remarks:017V055À_4281