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: 93TLOM180W/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

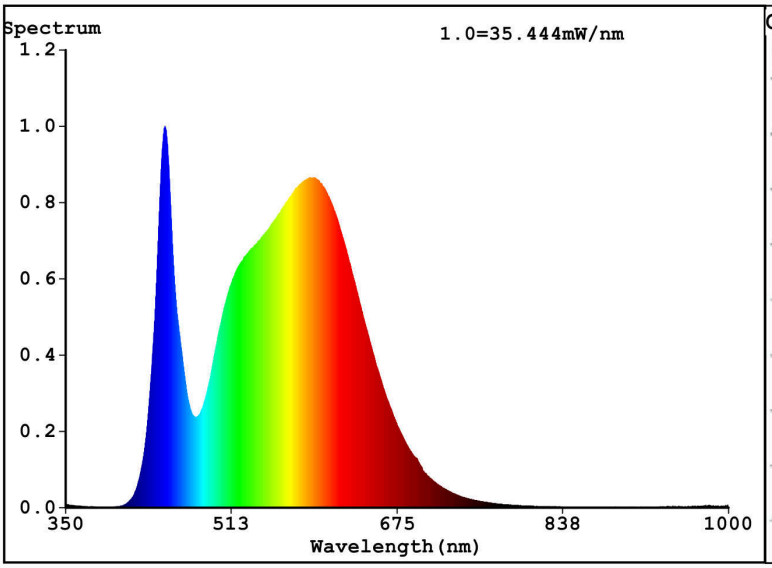
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	20	Energy efficiency class	F
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)	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	4 000
On-mode power (P_{on}), expressed in W	20,2	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	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		

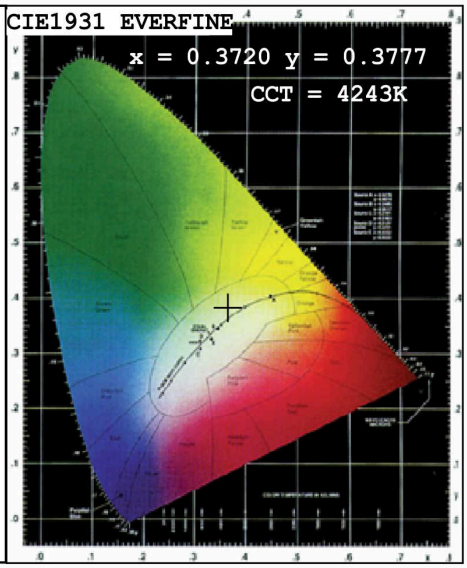
separate control gear, lighting control parts and non-lighting control parts, if any (millimetre)			range 250 nm to 800 nm, at full-load	
Claim of equivalent power[a]		-	If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,372 0,377
Parameters for directional light sources:				
Peak luminous intensity (cd)		447	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		2	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=0.3720 y=0.3777/u'=0.2192 v'=0.5008

CCT=4243K(Duv=0.0030) Dominant WL:Ld =576.3nm Purity=25.0%

Ratio:R=17.2% G=79.3% B=3.5%¡¡Peak WL:Lp=447.5nm FWHM=22.6nm

Render Index:Ra=81.6

R1 =79	R2 =86	R3 =93	R4 =82	R5 =80	R6 =82	R7 =86	
R8 =64	R9 =2	R10=68	R11=81	R12=61	R13=81	R14=96	R15=73

Photo Parameters:

Flux = 1831 lm Eff. : 90.31 lm/W Fe = 5.521 W

Electrical parameters:

V = 229.82 V I = 0.09686 A P = 20.28 W PF = 0.9109

WHITE:ANSI_4000K

Status: Integral T = 31 ms Ip = 48915 (75%)

Model:SKY TLOM180 COB/20W	Number:93TLOM180W/GR
Tester:Petya Marinova	Date:2018-02-16 10:24
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:O17V055À_4281