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: 98VIENA100SMD

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:	Yes		
Anti-glare shield:	No	Dimmable:	No

Product parameters

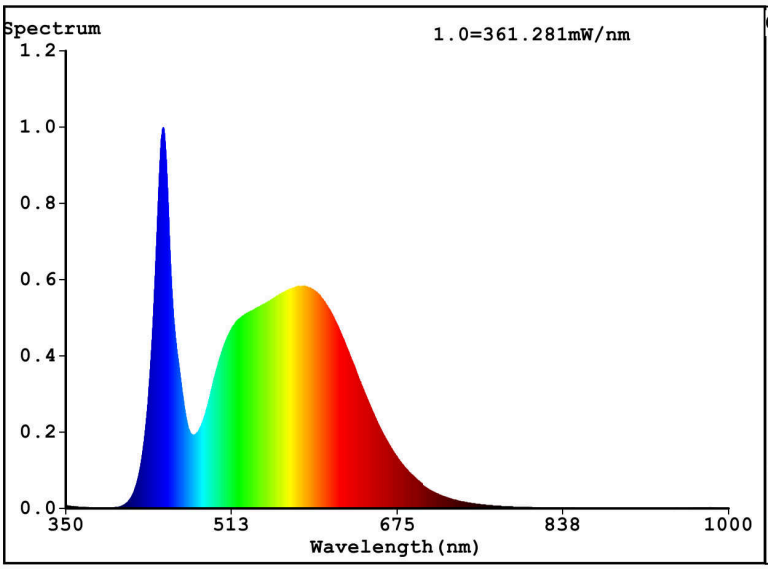
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	100	Energy efficiency class	E
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)	13 000 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	5 000
On-mode power (P_{on}), expressed in W	93,0	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	-	Colour rendering index, rounded to the nearest integer, or the range of CRI-values that can be set	81
Outer dimensions without — Height	290	Spectral power distribution in the	See image in last page
Outer dimensions without — Width	290		
Outer dimensions without — Depth	112		

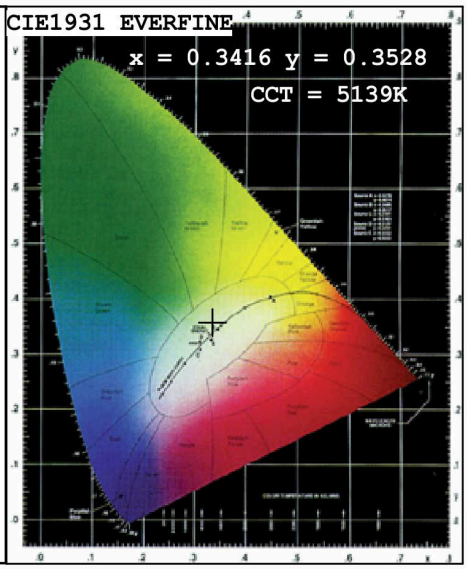
separate control gear, lighting control parts and non-lighting control parts, if any (millimetre)			range 250 nm to 800 nm, at full-load	
Claim of equivalent power[(a)]		-	If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,341 0,352
Parameters for directional light sources:				
Peak luminous intensity (cd)		8 630	Beam angle in degrees, or the range of beam angles that can be set	90
Parameters for LED and OLED light sources:				
R9 colour rendering index value		3	Survival factor	0,50
the lumen maintenance factor		0,70		
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ1)		0,90	Colour consistency in McAdam ellipses	6
Claims that an LED light source replaces a fluorescent light source without integrated ballast of a particular wattage.		Yes[(b)]	If yes then replacement claim (W)	99
Flicker metric (Pst LM)		0,4	Stroboscopic effect metric (SVM)	1,0

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

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

Spectrum Test Report





Color Parameters:

Chromaticity Coordinate:x=0.3416 y=0.3528/u'=0.2086 v'=0.4847

CCT=5139K(Duv=0.0020) Dominant WL:Ld =568.3nm WL:Lc = --nm Purity=8.3%

Ratio:R=15.3% G=80.5% B=4.3%¡¡Peak WL:Lp=445.8nm FWHM=20.1nm

Render Index:Ra=81.6

R1 =80	R2 =85	R3 =89	R4 =83	R5 =82	R6 =81	R7 =85	
R8 =67	R9 =3	R10=66	R11=84	R12=67	R13=81	R14=94	R15=74

Photo Parameters:

Flux = 13389 lm Eff. : 131.78 lm/W Fe = 41.85 W

Electrical parameters:

V = 219.81 V I = 0.4851 A P = 101.6 W PF = 0.9528

WHITE:ANSI_5000K

Status: Integral T = 4 ms Ip = 55963 (85%)

Model:LED OUDOOR LIGHTING	Number:98VIENA100SMD
Tester:Atanas DAKOV	Date:2021-03-22 11:17:53
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:7533