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: 98VECA200SMDDGR

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

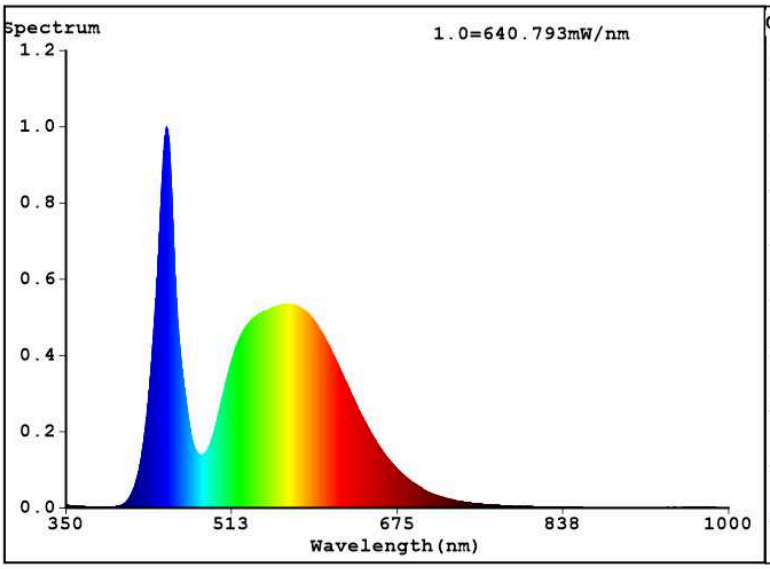
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	200	Energy efficiency class	E
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)	21 000 in Wide cone (120°)	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	5 500
On-mode power (P_{on}), expressed in W	182,4	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	75
Outer dimensions without — Height	460	Spectral power distribution in the	See image in last page
Outer dimensions without — Width	460		
Outer dimensions without — Depth	170		

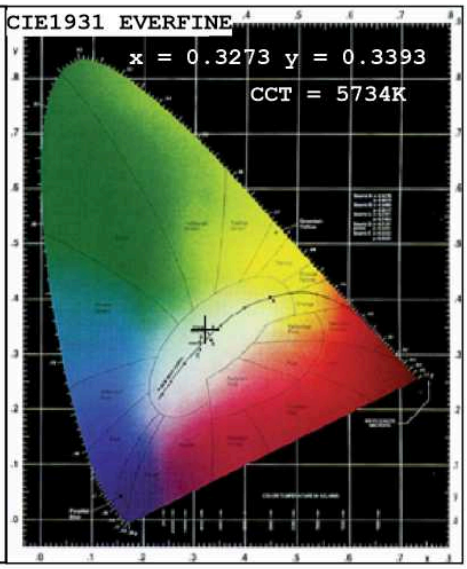
separate control gear, lighting control parts and non-lighting control parts, if any (millimetre)			range 250 nm to 800 nm, at full-load	
Claim of equivalent power[(a)]		-	If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,327 0,339
Parameters for directional light sources:				
Peak luminous intensity (cd)		448	Beam angle in degrees, or the range of beam angles that can be set	120
Parameters for LED and OLED light sources:				
R9 colour rendering index value		0	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=0.3273 y=0.3393/u'=0.2040 v'=0.4759

CCT=5734K(Duv=0.0014) Dominant WL:Ld =505.1nm WL:Lc = --nm Purity=1.8%

Ratio:R=13.6% G=82.5% B=3.9%¡¡Peak WL:Lp=448.6nm FWHM=22.3nm

Render Index:Ra=75.9

R1 =74	R2 =79	R3 =82	R4 =77	R5 =76	R6 =72	R7 =83	
R8 =63	R9 =0	R10=50	R11=76	R12=50	R13=75	R14=90	R15=69

Photo Parameters:

Flux = 21090 lm Eff. : 115.62 lm/W Fe = 65.58 W

Electrical parameters:

V = 219.75 V I = 0.8547 A P = 182.4 W PF = 0.9712

WHITE:ANSI_5700K

Status: Integral T = 1 ms Ip = 28750 (44%)

Model:LED OUTDOOR LIGHTING	Number:98VECA200SMD
Tester:Atanas DAKOV	Date:2020-05-04 14:05:42
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:6626