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: 98BERLIN200SMD

Type of light source:

Lighting technology used:	LED	Non-directional or directional:	NDLS
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

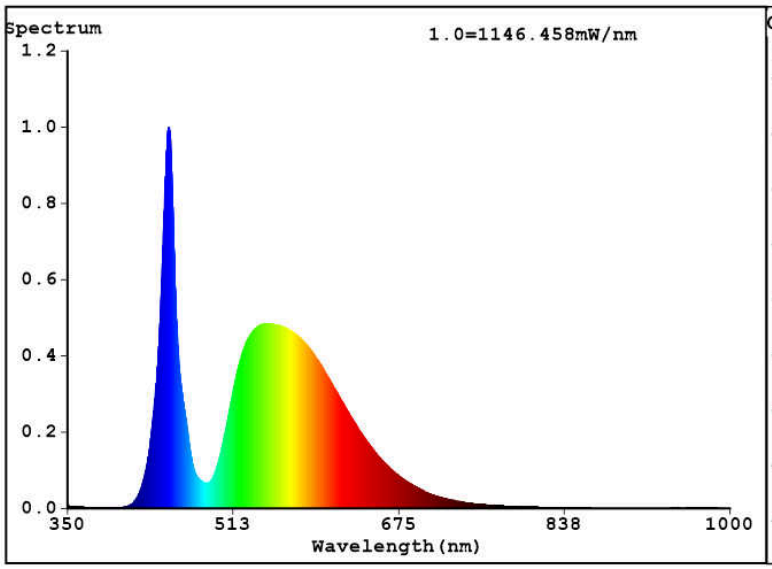
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	200	Energy efficiency class	C
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)	32 400 in Sphere (360°)	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	199,0	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	69
Outer dimensions without separate control gear, lighting control — Height	89	Spectral power distribution in the range 250 nm to 800 nm, at full-load	See image in last page
Outer dimensions without separate control gear, lighting control — Width	260		
Outer dimensions without separate control gear, lighting control — Depth	680		

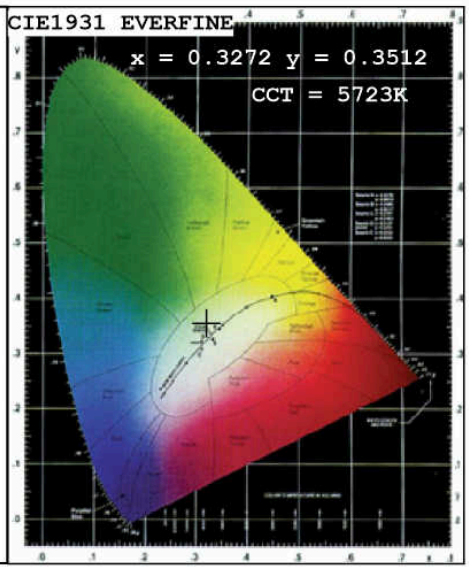
parts and non-lighting control parts, if any (millimetre)				
Claim of equivalent power[(a)]		-	If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,327 0,351
Parameters for LED and OLED light sources:				
R9 colour rendering index value		0	Survival factor	0,50
the lumen maintenance factor		0,93		
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ1)		0,90	Colour consistency in McAdam ellipses	4
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=0.3272 y=0.3512/u'=0.1995 v'=0.4818

CCT=5723K(Duv=0.0074) Dominant WL:Ld =532.7nm WL:Lc = --nm Purity=3.9%

Ratio:R=12.4% G=84.5% B=3.0%¡¡Peak WL:Lp=449.5nm FWHM=16.1nm

Render Index:Ra=69.1 AvgR=60.1 TM30:Rf=72 Rg=92 Lav=548.4nm

R1 =66	R2 =73	R3 =76	R4 =70	R5 =67	R6 =63	R7 =80	
R8 =57	R9 =0	R10=34	R11=66	R12=33	R13=67	R14=87	R15=61

Photo Parameters:

Flux = 32400 lm Eff. : 162.27 lm/W Fe = 96.28 W

Electrical parameters:

V = 229.87 V I = 0.9012 A P = 199.7 W PF = 0.9638

WHITE:ANSI_5700K

Status: Integral T = 1 ms Ip = 47518 (73%)

Model:LED OUTDOOR LIGHTING	Number:98BERLIN200SMD
Tester:Atanas DAKOV	Date:2022-02-28 11:37:02
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:8370