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: 9616LEDW

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

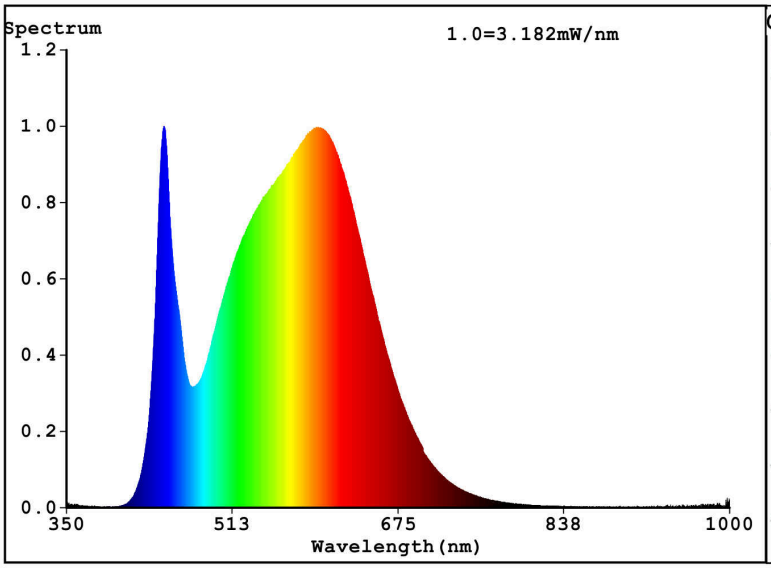
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	3	Energy efficiency class	G
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)	200 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	3,3	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	84
Outer dimensions without — Height	110	Spectral power distribution in the	See image in last page
Outer dimensions without — Width	73		
Outer dimensions without — Depth	73		

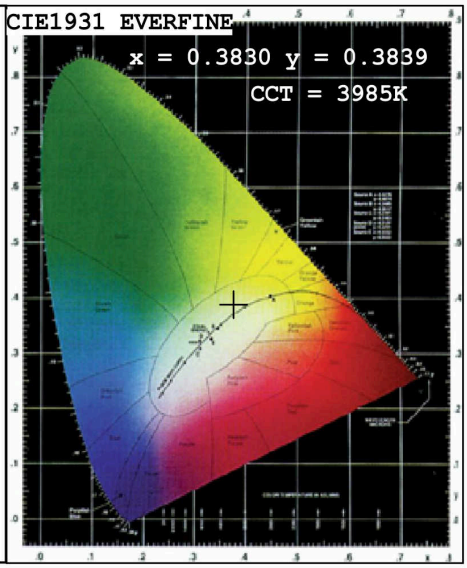
separate control gear, lighting control parts and non-lighting control parts, if any (millimetre)			range 250 nm to 800 nm, at full-load	
Claim of equivalent power[a]		-	If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,383 0,383
Parameters for directional light sources:				
Peak luminous intensity (cd)		445	Beam angle in degrees, or the range of beam angles that can be set	45
Parameters for LED and OLED light sources:				
R9 colour rendering index value		16	Survival factor	0,50
the lumen maintenance factor		0,93		
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ1)		0,80	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=0.3830 y=0.3839/u'=0.2239 v'=0.5051

CCT=3985K(Duv=0.0026) Dominant WL:Ld =577.8nm Purity=30.1%

Ratio:R=18.4% G=78.0% B=3.6%¡¡Peak WL:Lp=445.5nm FWHM=157.1nm

Render Index:Ra=84.2

R1 =82	R2 =89	R3 =94	R4 =84	R5 =83	R6 =85	R7 =88	
R8 =68	R9 =16	R10=73	R11=83	R12=67	R13=84	R14=96	R15=77

Photo Parameters:

Flux = 188.0 lm Eff. : 56.35 lm/W Fe = 579.0 mW

Electrical parameters:

V = 229.77 V I = 0.01712 A P = 3.337 W PF = 0.8484

WHITE:ANSI_4000K

Status: Integral T = 222 ms Ip = 36442 (56%)

Model:GRF9616-W LED/3W	Number:9616LEDW
Tester:Petya Marinova	Date:2017-06-14 08:54
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:ESPL201610024_3286