

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: 96GRFLED310/8GR

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

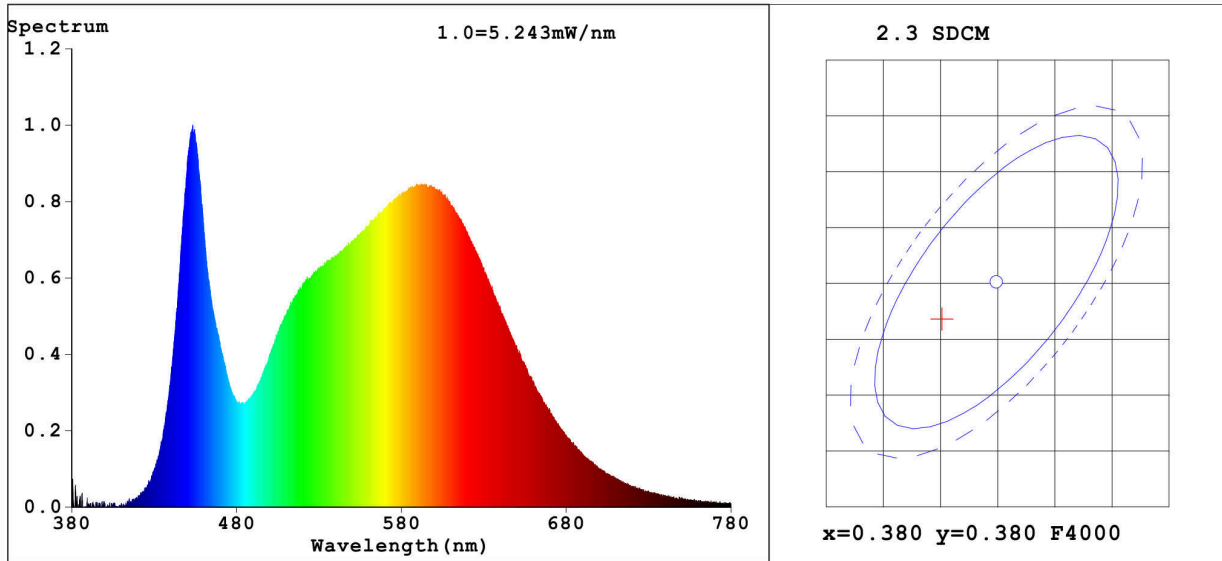
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	8	Energy efficiency class	G
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	260 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	8,2	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	82
Outer dimensions without	Height	Spectral power distribution in the	See image in last page
	Width		
	Depth		

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)	0,375 0,376	
Parameters for directional light sources:				
Peak luminous intensity (cd)	453	Beam angle in degrees, or the range of beam angles that can be set	30	
Parameters for LED and OLED light sources:				
R9 colour rendering index value	0	Survival factor	0,90	
the lumen maintenance factor	0,94			
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ_1)	0,50	Colour consistency in McAdam ellipses	6	
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)	1,0	Stroboscopic effect metric (SVM)	0,4	

(a) '-': not applicable;

(b) '-': not applicable;

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3752$ $y=0.3766$ / $u'=0.2217$ $v'=0.5008$
 CCT=4146K (Duv=0.0015) Dominant WL: $L_d = 577.6\text{nm}$ Purity=25.6%
 Ratio: R=17.8% G=78.4% B=3.8% Peak WL: $L_p = 453.4\text{nm}$ FWHM=23.4nm
 Render Index: $R_a = 82.8$
 R1 =81 R2 =90 R3 =95 R4 =81 R5 =81 R6 =85 R7 =86
 R8 =64 R9 =7 R10=75 R11=79 R12=58 R13=83 R14=98 R15=75

Photo Parameters:

Flux = 259.0 lm Eff. : 31.47 lm/W $F_e = 782.3$ mW

Electrical parameters:

V = 230.34 V I = 0.06915 A P = 8.229 W PF = 0.5167

LEVEL:OUT WHITE:ANSI_4000K

Status: Integral T = 2435 ms $I_p = 34190$ (52%)

Model: 96GRFLED310/8BL
 Tester:
 Temperature: 25.3Deg
 Manufacturer: FLD

Number: 1
 Date: 2020-11-13
 Humidity: 65.0%
 Remarks: