

Product Information Sheet

COMMISSION DELEGATED REGULATION (EU) 2019/2015 with regard to energy labelling of light sources

Supplier's name or trade mark: ZIEL

Supplier's address: DIY, Макгахан - 66, 1510 София, BG

Model identifier: KGFS-100

Type of light source:

Lighting technology used:	LED	Non-directional or directional:	DLS
Light source cap-type (or other electric interface)	cap		
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

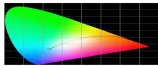
Product parameters

Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	72	Energy efficiency class	F
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°)	99 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	3000...6500
On-mode power (P_{on}), expressed in W	72,0	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	82
Outer dimensions without separate control gear, lighting control	Height	Spectral power distribution in the range 250 nm to 800 nm, at full-load	See image in last page
	Width		
	Depth		

parts and non-lighting control parts, if any (millimetre)				
Claim of equivalent power ^(a)	-	If yes, equivalent power (W)	-	
		Chromaticity coordinates (x and y)	0,310 0,330	
Parameters for directional light sources:				
Peak luminous intensity (cd)	1	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	17	Survival factor	0,00	
the lumen maintenance factor	0,00			
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ_1)	0,54	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;



Lighting Measure Report

Color Parameter

Chroma Coordinate: $x=0.3098$ $y=0.3303$ $u=0.1953$ $v=0.3124$ $Duv=0.0055$

Chroma Coordinate: $u'=0.1953$ $v'=0.4686$

CCT.:CCT=3089K Dominant: $d=490.1\text{nm}$ Barycenter: $b=537\text{nm}$ Peak Wavelength: $p=451.2\text{nm}$

FWHM: 29.57nm Purity: $Pe=8.163\%$ Red Ratio: $R=0.134$ Green Ratio: $G=0.806$ Blue Ratio: $B=0.06$

Color CRI.: $Ra=82.34$

R 1=84	R 2=89	R 3=93	R 4=86	R 5=85	R 6=85	R 7=90
R 8=74	R 9=17	R10=74	R11=85	R12=66	R13=85	R14=97
R15=79						

Luminosity Parameter

Luminous Flux(380-780nm): 7189.9lm Optical Power(380-780nm): 3.2W Efficient(380-780nm): 99.86lm/W

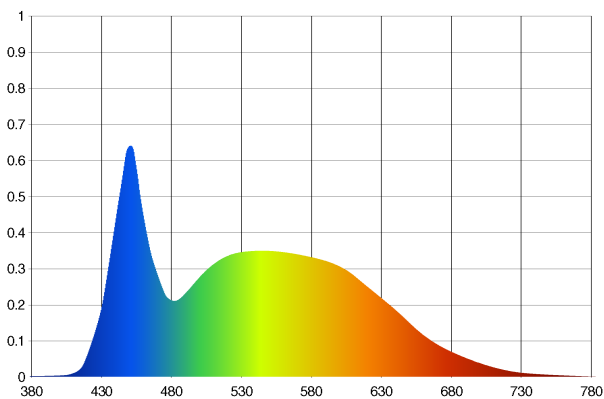
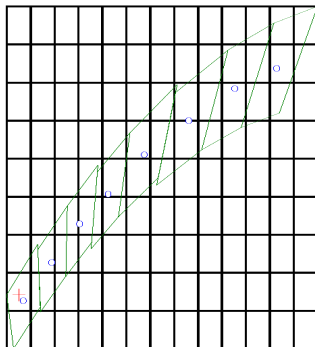
Electric Parameter

Voltage: $U=220.6\text{V}$ Current: $I=90\text{mA}$ Power: $P=10.78\text{W}$ PF: $PF=0.543$

Device State

Wavelength Range: $380\text{nm}-780\text{nm}$ Wavelength Interval: 1nm

CLASS:ANSI_3000K



Product Model: KGFS-100

Sample No.: 2

Test Cond: $T_g=24.2\text{Cels}$ $T_a=24.6\text{Cels}$ $RH=60\%$

Test Date: 2021-12-03

Manufacturer: 浙

Product Category: KGFS-100 72W 3000K

Measure Device: Volnic X-10 Series CCD Spectrum System

Operator(Sign): _____