

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: 96GRF328/2BL

Type of light source:

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

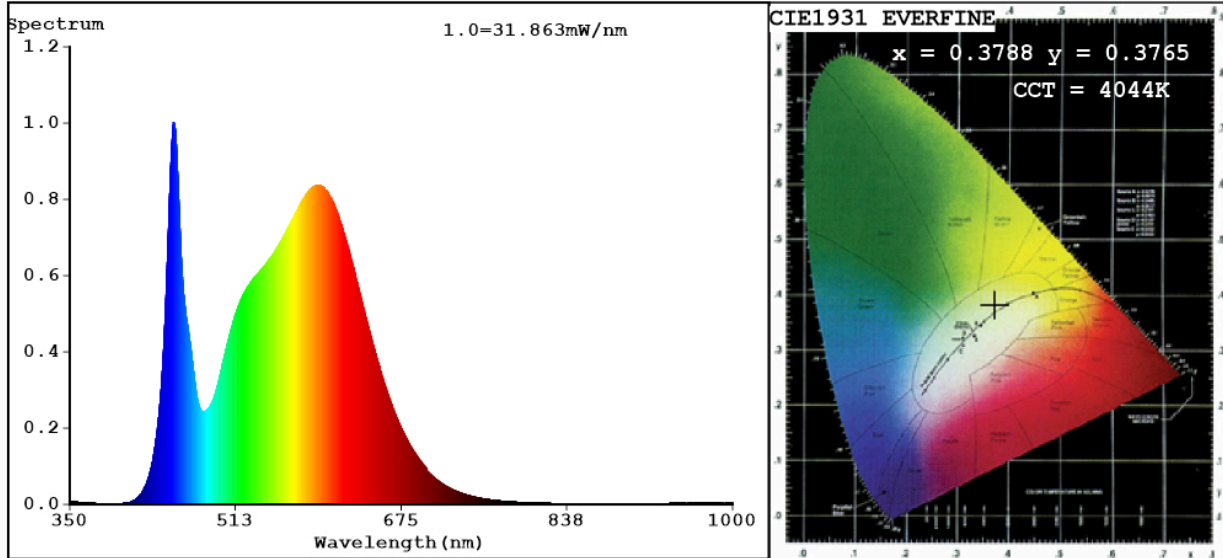
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	20	Energy efficiency class	F
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	1 600 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	18,2	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 separate control gear, lighting control	Height	260	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	90	
	Depth	90	
			See image in last page

parts and non-lighting control parts, if any (millimetre)			
Claim of equivalent power ^(a)	-	If yes, equivalent power (W)	-
		Chromaticity coordinates (x and y)	0,378 0,376
Parameters for directional light sources:			
Peak luminous intensity (cd)	452	Beam angle in degrees, or the range of beam angles that can be set	60
Parameters for LED and OLED light sources:			
R9 colour rendering index value	2	Survival factor	0,50
the lumen maintenance factor	0,95		
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.	Yes ^(b)	If yes then replacement claim (W)	180
Flicker metric (Pst LM)	0,4	Stroboscopic effect metric (SVM)	0,2

(a) : not applicable;

(b) : not applicable;

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3788$ $y=0.3765$ / $u'=0.2241$ $v'=0.5012$
 CCT=4044K (Duv=0.0003) Dominant WL:Ld =578.7nm WL:Lc = --nm Purity=26.7%
 Ratio:R=18.0% G=78.3% B=3.6%; Peak WL:Lp=452.0nm FWHM=20.4nm
 Render Index:Ra=82.1

R1 =80	R2 =89	R3 =95	R4 =80	R5 =80	R6 =85	R7 =85	
R8 =62	R9 =2	R10=74	R11=79	R12=59	R13=83	R14=98	R15=74

Photo Parameters:

Flux = 1516 lm Eff. : 83.25 lm/W Fe = 4.557 W

Electrical parameters:

V = 229.56 V I = 0.1657 A P = 18.21 W PF = 0.4788

WHITE:ANSI_4000K

Status: Integral T = 38 ms Ip = 50653 (77%)

Model:LED OUTDOOR LIGHTING
 Tester:Atanas DAKOV
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:96GRF328 2BL
 Date:2022-09-02 10:01:27
 Humidity:65.0%
 Remarks:8841