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: 96GRF331/1BL

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:	Yes		
Anti-glare shield:	No	Dimmable:	No

Product parameters

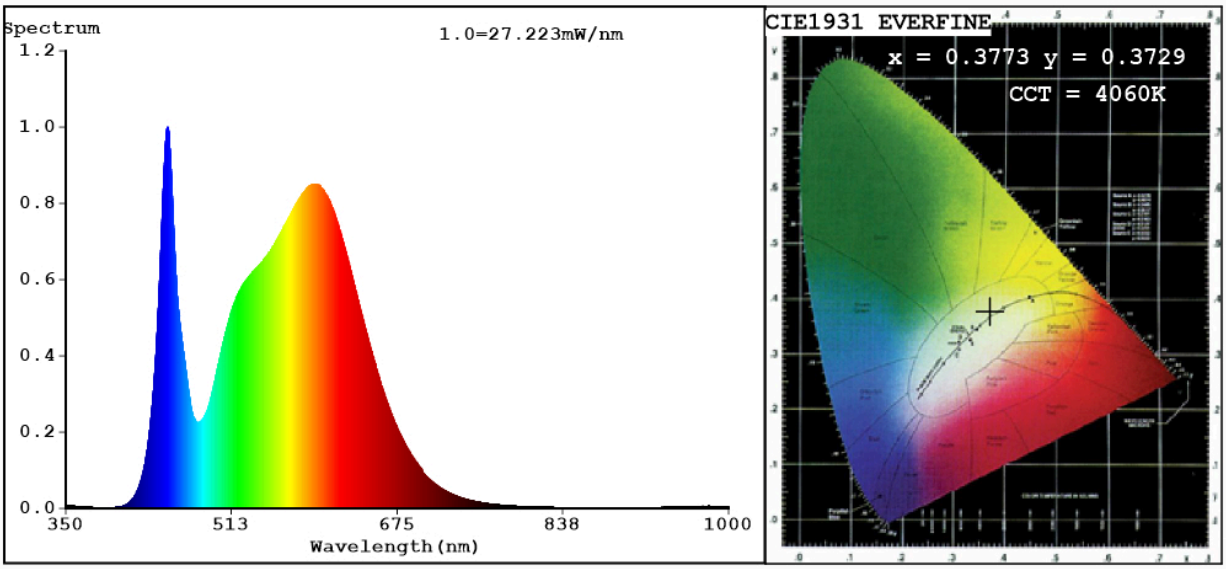
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	15	Energy efficiency class	F
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)	1 300 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	14,8	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	200	Spectral power distribution in the range 250 nm to 800 nm, at full-load	See image in last page
Width	120		
Depth	120		

parts and non-lighting control parts, if any (millimetre)				
Claim of equivalent power[(a)]		-	If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,377 0,372
Parameters for directional light sources:				
Peak luminous intensity (cd)		450	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		5	Survival factor	0,50
the lumen maintenance factor		0,95		
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ1)		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)	135
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=0.3773 y=0.3729/u'=0.2246 v'=0.4994

CCT=4060K(Duv=-0.0009) Dominant WL:Ld =579.4nm WL:Lc = --nm Purity=25.1%

Ratio:R=18.1% G=78.4% B=3.5%¡¡Peak WL:Lp=450.3nm FWHM=21.3nm

Render Index:Ra=82.3

R1 =81	R2 =88	R3 =94	R4 =82	R5 =81	R6 =84	R7 =85
R8 =64	R9 =5	R10=72	R11=81	R12=61	R13=83	R14=97	R15=75

Photo Parameters:

Flux = 1322 lm Eff. : 89.24 lm/W Fe = 4.015 W

Electrical parameters:

V = 229.54 V I = 0.1289 A P = 14.81 W PF = 0.5007

WHITE:ANSI_4000K

Status: Integral T = 45 ms Ip = 51276 (78%)

Model:LED OUTDOOR LIGHTING	Number:96GRF331 1BL
Tester:Atanas DAKOV	Date:2022-09-02 13:28:48
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:8841