

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: 99LED833HEW

Type of light source:

Lighting technology used:	LED	Non-directional or directional:	DLS
Light source cap-type (or other electric interface)	GU10		
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

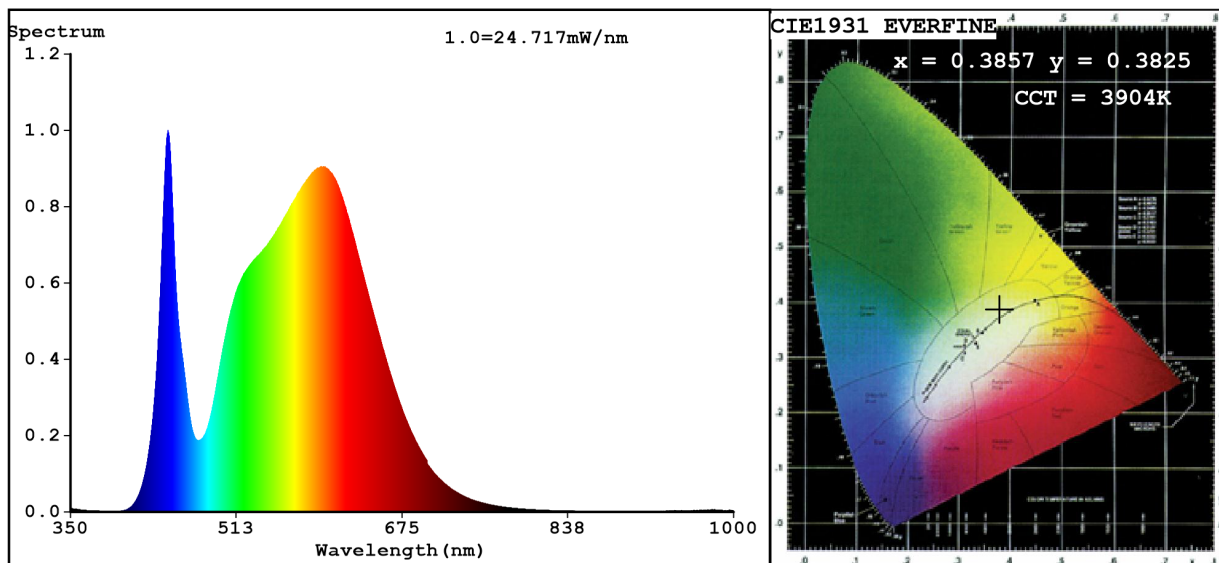
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	11	Energy efficiency class	E
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	1 200 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	12,3	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	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)	Yes	If yes, equivalent power (W)	85	
		Chromaticity coordinates (x and y)	0,385 0,382	
Parameters for directional light sources:				
Peak luminous intensity (cd)	1 615	Beam angle in degrees, or the range of beam angles that can be set	48	
Parameters for LED and OLED light sources:				
R9 colour rendering index value	10	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	4	
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)	0,5	Stroboscopic effect metric (SVM)	0,2	

(a) '-': not applicable;

(b) '-': not applicable;

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3857$ $y=0.3825$ $u'=0.2263$ $v'=0.5048$
 CCT=3904K (Duv=0.0012) Dominant WL: $\lambda_d = 578.8\text{nm}$ WL: $\lambda_c = \text{--nm}$ Purity=30.5%
 Ratio: R=18.6% G=78.3% B=3.1% ; Peak WL: $\lambda_p = 445.5\text{nm}$ FWHM=19.4nm
 Render Index: $R_a = 82.5$

R1 =81	R2 =87	R3 =92	R4 =84	R5 =81	R6 =83	R7 =86
R8 =66	R9 =10	R10=69	R11=84	R12=65	R13=82	R14=96 R15=75

Photo Parameters:

Flux = 1295 lm Eff. : 104.99 lm/W $\Phi_e = 3.964\text{ W}$

Electrical parameters:

V = 229.47 V I = 0.09870 A P = 12.34 W PF = 0.5448

WHITE:ANSI_4000K

Status: Integral T = 43 ms $I_p = 47062$ (72%)

Model:LED GU10
 Tester:Atanas DAKOV
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED833HEW
 Date:2022-09-23 16:25:10
 Humidity:65.0%
 Remarks:8756