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: 99LED447M

Type of light source:

Lighting technology used:	LED	Non-directional or directional:	NDLS
Light source cap-type (or other electric interface)	G13		
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

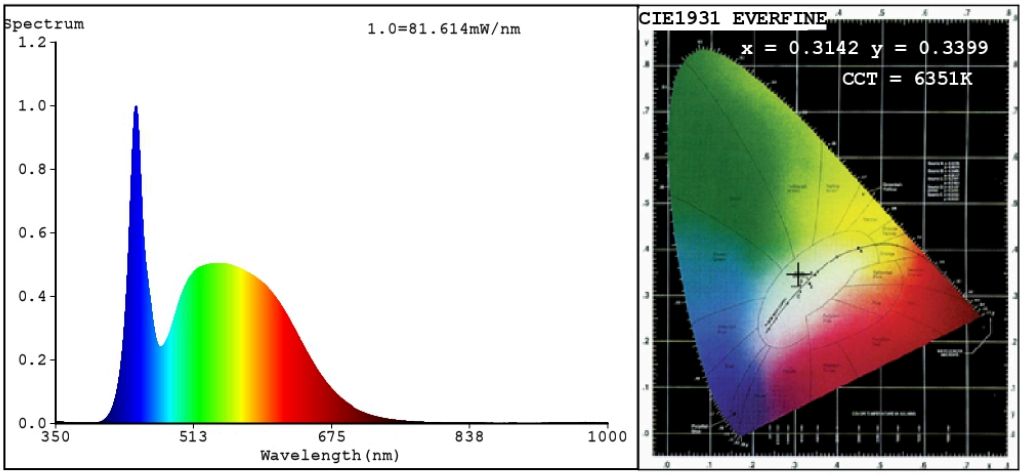
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	24	Energy efficiency class	E
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)	2 600 in Sphere (360°)	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	6 400
On-mode power (P_{on}), expressed in W	22,6	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	81
Outer dimensions without separate control gear, lighting control — Height	1 514	Spectral power distribution in the range 250 nm to 800 nm, at full-load	See image in last page
Width	28		
Depth	28		

parts and non-lighting control parts, if any (millimetre)				
Claim of equivalent power[(a)]		Yes	If yes, equivalent power (W)	160
			Chromaticity coordinates (x and y)	0,309 0,325
Parameters for LED and OLED light sources:				
R9 colour rendering index value		4	Survival factor	0,90
the lumen maintenance factor		0,93		
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)	150
Flicker metric (Pst LM)		0,0	Stroboscopic effect metric (SVM)	0,0

[(a)] '-' : not applicable;

[(b)] '-' : not applicable;

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate:x=0.3142 y=0.3399/u'=0.1949 v'=0.4742
CCT=6351K(Duv=0.0079) Dominant WL:Ld =496.1nm WL:Lc = --nm Purity=6.1%
Ratio:R=13.3% G=81.3% B=5.4%¡¡Peak WL:Lp=444.8nm FWHM=21.0nm
Render Index:Ra=82.8

R1 =80	R2 =85	R3 =90	R4 =84	R5 =82	R6 =82	R7 =88	
R8 =71	R9 =7	R10=66	R11=84	R12=67	R13=81	R14=95	R15=74

Photo Parameters:

Flux = 2676 lm Eff. : 100.77 lm/W Fe = 8.664 W

Electrical parameters:

V = 219.85 V I = 0.2226 A P = 26.56 W PF = 0.5427
WHITE:ANSI_6500K

Status: Integral T = 16 ms Ip = 54463 (83%)

Model:LED TUBE	Number:99LED447M
Tester:Atanas DAKOV	Date:2021-03-30 11:31:47
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:7467