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: 99LED448M

Type of light source:

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

		Fibuuct para			
Parameter		Value	Parameter	Value	
General product parameters:					
Energy consum mode (kWh/100 up to the nearest	0 h), rounded	24	Energy efficiency class	F	
Useful luminous indicating if it re in a sphere (36 cone (120º) or in (90º)	fers to the flux 0°), in a wide	2 300 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	4 000	
On-mode po expressed in W	ower (P _{on}),	24,0	Standby power (P _{sb}), expressed in W and rounded to the second decimal	0,00	
Networked stand for CLS, express rounded to the s	sed in W and	-	Colour rendering index, rounded to the nearest integer, or the range of CRI- values that can be set	81	
Outer	Height	1 514	Spectral power	See image	
dimensions	Width	28	distribution in the	in last page	
without	Depth	28	1	Page 1 /	

separate control gear, lighting control parts and non- lighting control parts, if any (millimetre)		range 250 nm to 800 nm, at full-load			
Claim of equivalent power ^(a)	Yes	If yes, equivalent power (W)	160		
		Chromaticity coordinates (x and y)	0,380 0,382		
Parameters for LED and OLED light sources:					
R9 colour rendering index value	5	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	5		
Claims that an LED light source replaces a fluorescent light source without integrated ballast of a particular wattage.	Yes ^(b)	lf yes then replacement claim (W)	150		
Flicker metric (Pst LM)	0,0	Stroboscopic effect metric (SVM)	0,0		

(a)_{'-'} : not applicable;

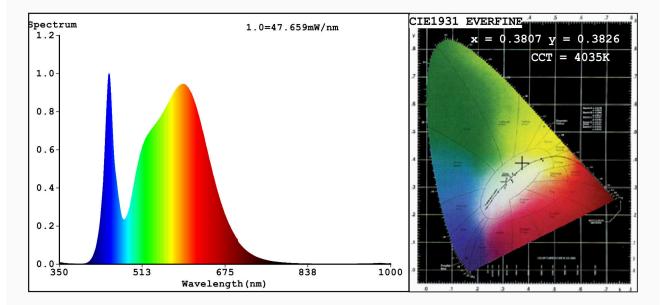
(b)'-' : not applicable;

EVERFINE

EVERFINE HAAS-1200 Test Report

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Spectrum Test Report



Color Parameters:

Chromaticity Coordinate:x=0.3807 y=0.3826/u'=0.2230 v'=0.5042 CCT=4035K(Duv=0.0026) Dominant WL:Ld =577.6nm WL:Lc = --nm Purity=29.1% Ratio:R=17.9% G=78.8% B=3.3%;;Peak WL:Lp=447.9nm FWHM=21.9nm Render Index:Ra=81.9

R1 =80 R2 =87 R3 =93 R4 =82 R5 =80 R6 =82 R7 =86 R8 = 64R9 =5 R10=69 R11=82 R12=63 R13=81 R14=96 R15=73 Photo Parameters: Flux = 2643 lm Eff. : 97.81 lm/W Fe = 7.998 W Electrical parameters: V = 219.87 VI = 0.2256 AP = 27.02 W PF = 0.5447WHITE: ANSI 4000K

Status: Integral T = 21 ms Ip = 46680 (71%)

Model:LED TUBE	Number:99LED448M
Tester:Atanas DAKOV	Date:2021-03-30 11:08:42
Temperature:25.3Deg	Humidity:65.0%
Manufacturer: ELMARK	Remarks:7377