

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: 99LED616IP65E

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:	No		
Anti-glare shield:	No	Dimmable:	No

Product parameters

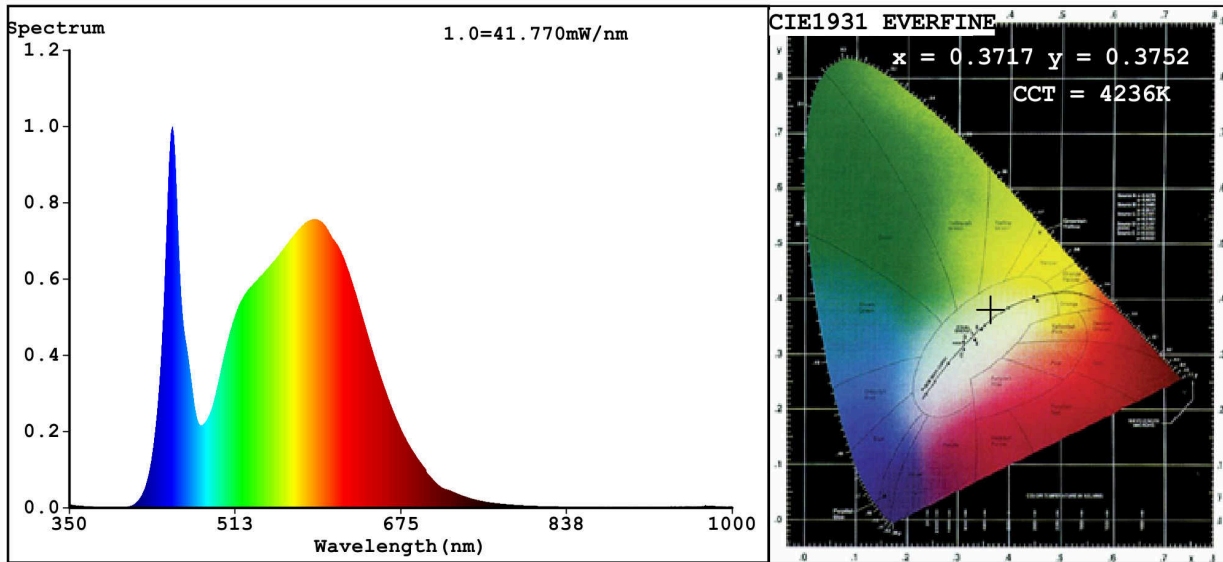
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	16	Energy efficiency class	F
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	1 600 in Wide cone (120°)	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	17,6	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	82
Outer dimensions without	Height	Spectral power distribution in the	See image in last page
	Width		
	Depth		

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)	-		If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,371 0,375
Parameters for directional light sources:				
Peak luminous intensity (cd)	451		Beam angle in degrees, or the range of beam angles that can be set	120
Parameters for LED and OLED light sources:				
R9 colour rendering index value	9		Survival factor	0,50
the lumen maintenance factor	0,93			
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ_1)	0,30		Colour consistency in McAdam ellipses	5
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)	0,0		Stroboscopic effect metric (SVM)	0,0

(a) : not applicable;

(b) : not applicable;

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3717$ $y=0.3752$ $u'=0.2199$ $v'=0.4996$
 CCT=4236K (Duv=0.0020) Dominant WL:Ld =577.0nm WL:Lc = --nm Purity=24.1%
 Ratio:R=17.4% G=79.0% B=3.6% ; Peak WL:Lp=451.3nm FWHM=19.0nm
 Render Index:Ra=82.5 AvgR=75.5 TM30:Rf=84 Rg=95 Lav=566.2nm

R1 =81 R2 =88 R3 =93 R4 =82 R5 =81 R6 =83 R7 =87
 R8 =66 R9 =9 R10=71 R11=81 R12=58 R13=82 R14=96 R15=75

Photo Parameters:

Flux = 1890 lm Eff. : 107.34 lm/W Fe = 5.749 W

Electrical parameters:

V = 225.22 V I = 0.2006 A P = 17.61 W PF = 0.3898
 WHITE:ANSI_4000K

Status: Integral T = 22 ms Ip = 38405 (59%)

Model:LED PANEL ROUND
 Tester:Atanas DAKOV
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED616IP65
 Date:2021-07-28 15:42:12
 Humidity:65.0%
 Remarks:7593