

# 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:** 99DS406

## 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:	NMLS	Connected light source (CLS):	No
Colour-tuneable light source:	No	Envelope:	-
High luminance light source:	No		
Anti-glare shield:	No	Dimmable:	No

## Product parameters

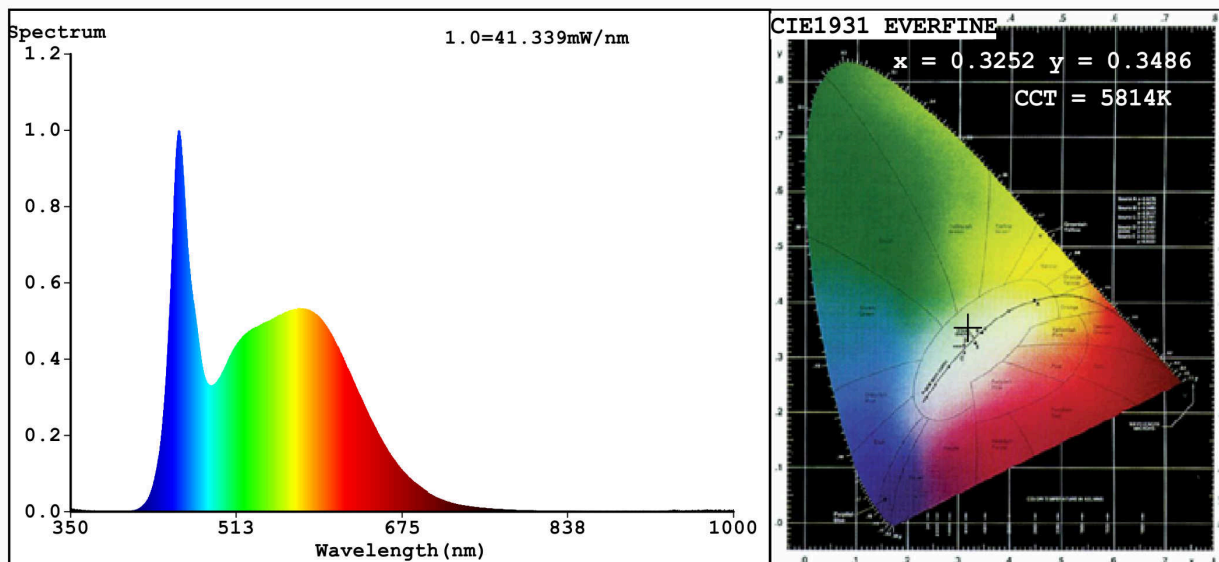
Parameter	Value	Parameter	Value
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	18	Energy efficiency class	F
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	1 440 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	3 000 or 4 000 or 6 000
On-mode power ( $P_{on}$ ), expressed in W	18,4	Standby power ( $P_{sb}$ ), expressed in W and rounded to the second decimal	0,50
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 <sup>(a)</sup>	-		If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,325 0,348
<b>Parameters for directional light sources:</b>				
Peak luminous intensity (cd)	456		Beam angle in degrees, or the range of beam angles that can be set	110
<b>Parameters for LED and OLED light sources:</b>				
R9 colour rendering index value	3		Survival factor	0,50
the lumen maintenance factor	0,93			

(a) : not applicable;

(b) : not applicable;

## Spectrum Test Report



### Color Parameters:

Chromaticity Coordinate:  $x=0.3252$   $y=0.3486$   $u'=0.1991$   $v'=0.4802$

CCT=5814K(Duv=0.0071) Dominant WL:Ld =519.0nm Purity=3.1%

Ratio:R=14.0% G=79.9% B=6.1%; Peak WL:Lp=456.1nm FWHM=26.4nm

Render Index:Ra=82.9

R1 =81	R2 =93	R3 =94	R4 =77	R5 =81	R6 =88	R7 =84
R8 =64	R9 =3	R10=82	R11=77	R12=59	R13=85	R14=97
						R15=75

### Photo Parameters:

Flux = 1424 lm Eff. : 77.04 lm/W Fe = 4.492 W

### Electrical parameters:

V = 229.88 V I = 0.08775 A P = 18.49 W PF = 0.9166

WHITE:ANSI\_5700K

Status: Integral T = 19 ms Ip = 45744 (70%)

Model:LED PANEL ROUND/18W  
Tester:Petya Marinova  
Temperature:25.3Deg  
Manufacturer:ELMARK

Number:99DS406  
Date:2019-01-25 13:41  
Humidity:65.0%  
Remarks:018A030\_4729