

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: 96RAY15/WW

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:	Yes		
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	15	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°)	1 143 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	3 000
On-mode power (P_{on}), expressed in W	14,1	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	95	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	200	
	Depth	200	
			See image in last page

parts and non-lighting control parts, if any (millimetre)			
Claim of equivalent power ^(a)	-	If yes, equivalent power (W)	-
		Chromaticity coordinates (x and y)	0,432 0,402
Parameters for directional light sources:			
Peak luminous intensity (cd)	708	Beam angle in degrees, or the range of beam angles that can be set	60
Parameters for LED and OLED light sources:			
R9 colour rendering index value	7	Survival factor	0,50
the lumen maintenance factor	0,96		
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)	0,0	Stroboscopic effect metric (SVM)	0,0

(a) '-': not applicable;

(b) '-': not applicable;

Lightsource Test Report

Product Information

Product Number: JD-MDC180-15W

Submitted Unit: T

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4329$ $y=0.4024$ $u(u')=0.2487$ $v=0.3467$ $v'=0.5201$

CCT: $T_c=3003K$ ($duv=-0.00011$)

Color Ratio: $R=0.227$ $G=0.747$ $B=0.026$

Peak Wavelength: 602nm

Half Bandwidth: 129.1nm

Dominant Wavelength: 582.6nm

Color Purity: 0.507

CRI: R_i : $R_a=81.3$

$R_1=82$

$R_2=91$

$R_3=97$

$R_4=82$

$R_5=83$

$R_6=90$

$R_7=82$

$R_8=59$

$R_9=7$

$R_{10}=81$

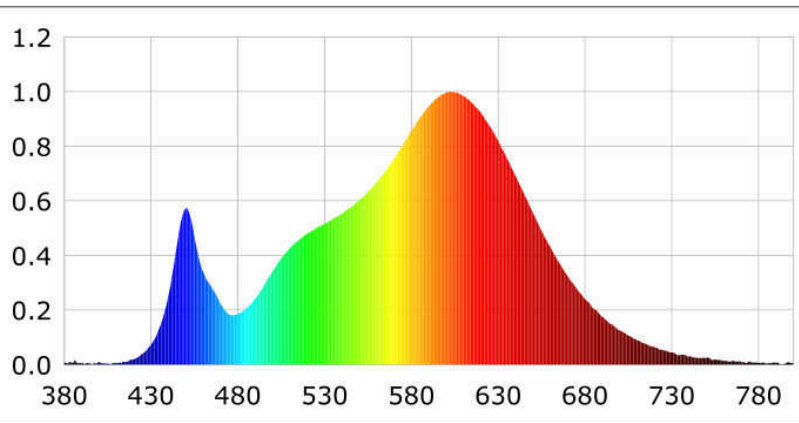
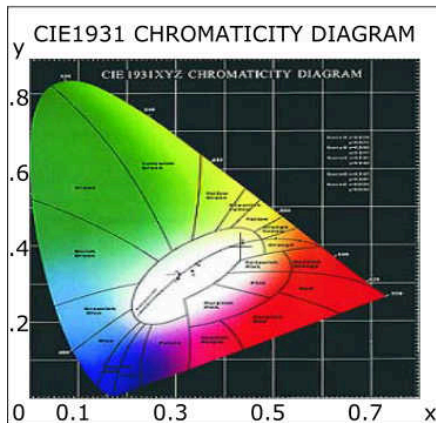
$R_{11}=83$

$R_{12}=73$

$R_{13}=84$

$R_{14}=99$

$R_{15}=74$



Photometric Parameters

Luminous Flux: 1143.9 lm

Efficiency: 80.67 lm/W

Radiant Power: 3.636 W

Electric Parameters

Voltage: 220.00V

Current: 0.1105A

Power: 14.18W

Power Factor: 0.5830

Frequency: 49.99Hz

Test Information

Scan Range: 380nm~800nm:1nm Photometric Method: sphere-spectroradiometer

Stabilization Time: 0 Min

Photometric Condition: Sphere diameter: 1.50m, 4π

Max of Signal: 44364 (3698)

CCD Integration Time: 483.63 ms

Condition: $T_x=28.8^\circ C$, $T_i=29.4^\circ C$, R.H.:60%

Test Lab:

Operator:

Test Device: Inventfine CMS-2

Test Time: 2022-07-09 13:23:39

Inspector: