

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: 96RAY50/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	50	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°)	4 500 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	50,0	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	84
Outer dimensions without separate control gear, lighting control	Height	90	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	300	
	Depth	300	
			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)	0,436 0,396
Parameters for directional light sources:			
Peak luminous intensity (cd)	1 869	Beam angle in degrees, or the range of beam angles that can be set	109
Parameters for LED and OLED light sources:			
R9 colour rendering index value	39	Survival factor	0,50
the lumen maintenance factor	0,95		
Parameters for LED and OLED mains light sources:			
displacement factor (cos ϕ_1)	0,90	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

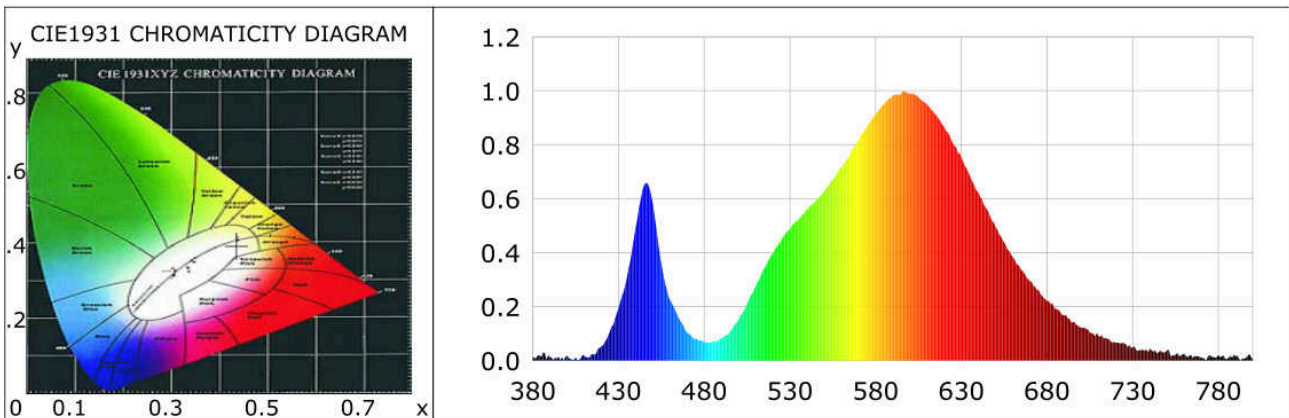
Product Information

Product Category: 52
Submitted Unit: T

Product Number: JD-MDC300-50W

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4365$ $y=0.3961$ $u(u')=0.2537$ $v=0.3454$ $v'=0.5181$
CCT: $T_c=2982K$ ($duv=-0.00313$) Color Ratio: $R=0.220$ $G=0.765$ $B=0.015$
Peak Wavelength: 596nm Half Bandwidth: 118.7nm
Dominant Wavelength: 584.2nm Color Purity: 0.499
CRI: R_i : $R_a=84.6$
 $R1=89$ $R2=94$ $R3=98$ $R4=89$ $R5=88$ $R6=92$ $R7=91$ $R8=77$
 $R9=39$ $R10=86$ $R11=90$ $R12=68$ $R13=90$ $R14=99$ $R15=83$



Photometric Parameters

Luminous Flux: 4840.6 lm

Efficiency: 95.00 lm/W

Radiant Power: 15.362 W

Electric Parameters

Voltage: 220.00V

Current: 0.2360A

Power: 50.95W

Power Factor: 0.9690

Frequency: 49.99Hz

Test Information

Scan Range: 380nm~800nm:1nm Photometric Method: sphere-spectroradiometer
Stabilization Time: 0 Min Photometric Condition: Sphere diameter: 1.50m, 4 π
Max of Signal: 46960 (3269) CCD Integration Time: 111.86 ms

Condition: Tx:28.0'C, Ti:27.7'C, R.H.:60%
Test Lab:
Operator:

Test Device: Inventfine CMS-2
Test Time: 2022-07-09 13:25:01
Inspector: