Product Information Sheet

COMMISSION DELEGATED REGULATION (EU) 2019/2015 with regard to energy labelling of light

sources	ALLOAILD NEGOL	Anon (Lo) 2013/2	015 with regard to ener	gy labelling of light	
Supplier's name	e or trade mark:	ELMARK			
Supplier's address: ELMARK INDUSTRIES SC, bul.Dobrudja 2, 9300 Dobrich Dobrich, BG					
Model identifie	r: 96RAY20/WW				
Type of light so	urce:				
Lighting techno	logy used:	LED	Non-directional or directional:	DLS	
Light source cap-type		Integrated LED			
(or other electric interface)					
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 para	T	1	
Parameter		Value	Parameter	Value	
		General product p			
Energy consumption in on- mode (kWh/1000 h), rounded up to the nearest integer		20	Energy efficiency class	F	
Useful luminous flux (φuse), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)		1 730 in Nar- row 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}), ex- pressed in W		19,2	Standby power (P _{sb}), expressed in W and rounded to the sec- ond decimal	0,00	
Networked standby power (P _{net}) for CLS, expressed in W and rounded to the second decimal		-	Colour rendering in- dex, rounded to the nearest integer, or the range of CRI-val- ues that can be set	80	
Outer dimensions without separate control gear, lighting control	Height Width Depth	95 250 250	Spectral power distribution in the range 250 nm to 800 nm, at full-load	See image in last page	

parts and non-			
lighting con-			
trol parts, if any (millime-			
any (millime- tre)			
Claim of equivalent power ^(a)	-	If yes, equivalent	-
cidiii or equivalent power		power (W)	
		Chromaticity coordi-	0,436
		nates (x and y)	0,396
Parameters for directional light s	sources:		
Peak luminous intensity (cd)	1 475	Beam angle in de-	50
		grees, or the range	
		of beam angles that	
		can be set	
Parameters for LED and OLED lig	ht sources:		
R9 colour rendering index value	3	Survival factor	0,50
the lumen maintenance factor	0,95		
Parameters for LED and OLED ma	ains light sources	:	
displacement factor (cos φ1)	0,50	Colour consistency	4
		in McAdam ellipses	
Claims that an LED light source	_(b)	If yes then replace-	-
replaces a fluorescent light		ment claim (W)	
source without integrated bal-			
last of a particular wattage.			
Flicker metric (Pst LM)	0,0	Stroboscopic effect	0,0
		metric (SVM)	

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

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

Lightsource Test Report

Product Infomation

Product Number: JD-MDC200-20W Submitted Unit: T

CIE Colorimetric Parameters

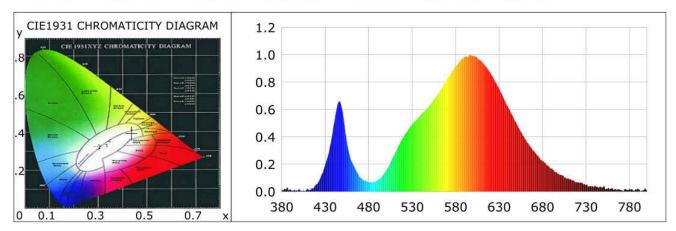
Chromaticity coordinates: x=0.4365 y=0.3961 u(u')=0.2537 v=0.3454 v'=0.5181CCT: Tc=2994K (duv=-0.00313) Color Ratio: R=0.220 G=0.765 B=0.015

Peak Wavelength: 596nm Half Bandwidth: 118.7nm Dominant Wavelength: 584.2nm Color Purity: 0.499

CRI: Ri: Ra= 80.2

R1 =83 R2 =81 R3 =91 R4 =79 R5 =76 R6 =74 R7 =77 R8 =47

R9 = 3 R10=56 R11=74 R12=49 R13=71 R14=94 R15=63



Photometric Parameters

Luminous Flux: 1731.3 lm Efficiency: 89.80 lm/W Radiant Power: 4.970 W

Electric Parameters

Voltage: 220.00V Current: 0.1640A Power: 19.28W

Power Factor: 0.5340 Frequency: 49.99Hz

Test Infomation

Scan Range: 380nm~800nm:1nnPhotometric Method: sphere-spectroradiometer Stabilization Time: 0 Min Photometric Condition: Sphere diameter: 1.50m, 4∏

Max of Signal: 45363 (3463) CCD Integration Time: 293.92 ms

Condition: Tx:28.2'C, Ti:27.4'C, R.H.:60% Test Device: Inventfine CMS-2 Test Lab: Test Time: 2022-07-09 18:09:42

Operator: Inspector: