

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: 96GRF331WW/2BL

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	30	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°)	2 100 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	28,3	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	270	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	75	
	Depth	75	
			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)	0,452 0,419
Parameters for directional light sources:			
Peak luminous intensity (cd)	4 207	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	2	Survival factor	0,50
the lumen maintenance factor	0,95		
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

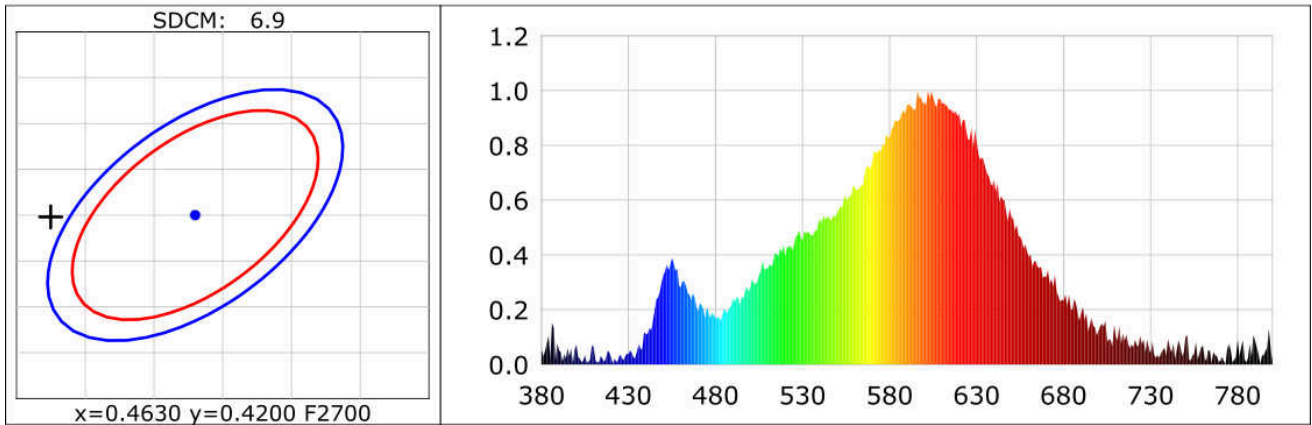
Product Information

Product Category: 52
Submitted Unit: T

Product Number: JD-BDC120S2

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4525$ $y=0.4198$ $u(u')=0.2538$ $v=0.3531$ $v'=0.5297$
CCT: $T_c=2986K$ ($duv=0.00413$) Color Ratio: $R=0.232$ $G=0.745$ $B=0.023$
Peak Wavelength: 602nm Half Bandwidth: 113.2nm
Dominant Wavelength: 582.1nm Color Purity: 0.618
CRI: R_i : $R_a=81.2$
 $R_1=78$ $R_2=89$ $R_3=96$ $R_4=78$ $R_5=78$ $R_6=89$ $R_7=80$ $R_8=53$
 $R_9=2$ $R_{10}=77$ $R_{11}=77$ $R_{12}=67$ $R_{13}=80$ $R_{14}=98$ $R_{15}=69$



Photometric Parameters

Luminous Flux: 2059.3 lm Efficiency: 72.65 lm/W Radiant Power: 5.669W

Electric Parameters

Voltage: 220.00V Current: 0.2272A Power: 28.35W
Power Factor: 0.5670 Frequency: 49.99Hz

Test Information

Scan Range: 380nm~800nm:1nm Photometric Method: sphere-spectroradiometer
Stabilization Time: 0 Min Photometric Condition: Sphere diameter: 1.50m, 4T
Max of Signal: 45365 (3654) CCD Integration Time: 261.18 ms

Condition: $T_x:29.3^{\circ}C$, $T_i:28.3^{\circ}C$, R.H.:60%
Test Lab:
Operator:

Test Device: Inventfine CMS-2
Test Time: 2022-07-09 19:36:59
Inspector: