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: 95DONUT20LED

Type of light source:

Lighting technology used:	LED	Non-directional or directional:	NDLS
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	20	Energy efficiency class	G
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)	1 600 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	4 000
On-mode power (P_{on}), expressed in W	20,8	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	83
Outer dimensions without — Height	80	Spectral power distribution in the	See image in last page
Outer dimensions without — Width	80		
Outer dimensions without — Depth	285		

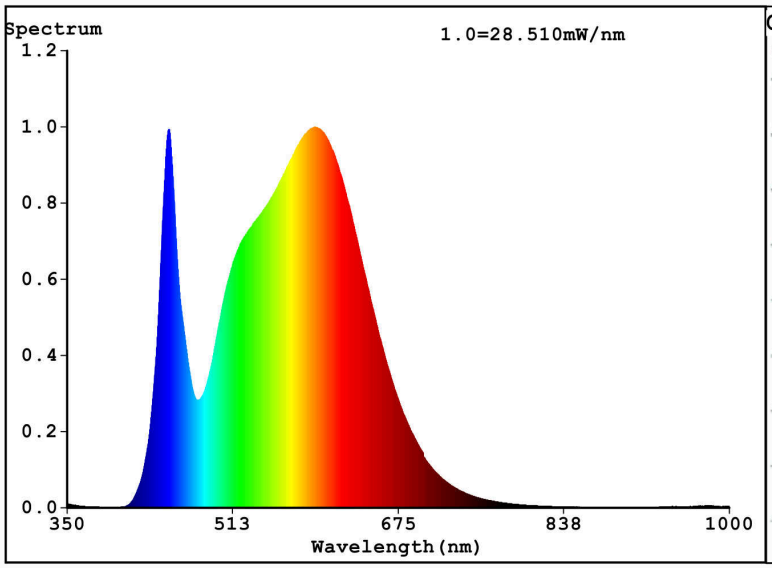
separate control gear, lighting control parts and non-lighting control parts, if any (millimetre)			range 250 nm to 800 nm, at full-load	
Claim of equivalent power[a]		Yes	If yes, equivalent power (W)	100
			Chromaticity coordinates (x and y)	0,382 0,384
Parameters for LED and OLED light sources:				
R9 colour rendering index value		8	Survival factor	0,40
the lumen maintenance factor		0,93		
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ1)		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.		Yes[b]	If yes then replacement claim (W)	98
Flicker metric (Pst LM)		0,1	Stroboscopic effect metric (SVM)	0,0

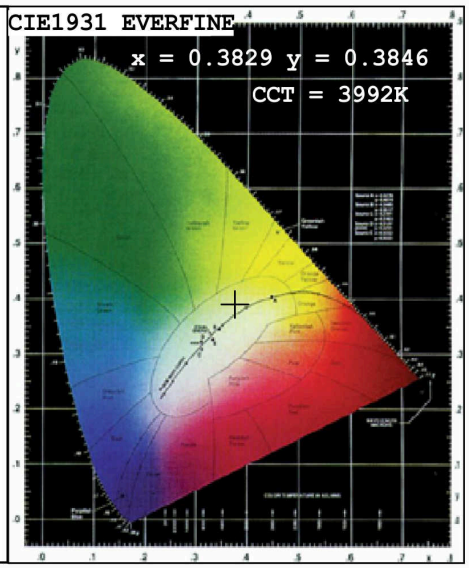
[a] '-' : not applicable;

[b] '-' : not applicable;

EVERFINE HAAS-1200 Test Report

Spectrum Test Report





Color Parameters:

Chromaticity Coordinate:x=0.3829 y=0.3846/u'=0.2236 v'=0.5053

CCT=3992K(Duv=0.0029) Dominant WL:Ld =577.6nm WL:Lc = --nm Purity=30.3%

Ratio:R=18.1% G=78.4% B=3.5%¡¡Peak WL:Lp=593.1nm FWHM=152.1nm

Render Index:Ra=83.0

R1 =81	R2 =88	R3 =95	R4 =83	R5 =81	R6 =84	R7 =87	
R8 =65	R9 =8	R10=73	R11=82	R12=63	R13=83	R14=97	R15=74

Photo Parameters:

Flux = 1663 lm Eff. : 79.76 lm/W Fe = 5.052 W

Electrical parameters:

V = 229.97 V I = 0.1617 A P = 20.86 W PF = 0.5607

WHITE:ANSI_4000K

Status: Integral T = 32 ms Ip = 50372 (77%)

Model:LAMP DONUT/20W	Number:95DONUT20LED
Tester:Petya Marinova	Date:2019-08-07 15:35:47
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:SH19BG-JC-ELM01_5741