

# Product Information Sheet

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

**Supplier's name or trade mark:** Namron

**Supplier's address:** Namron AS, Nedre kalbakkvei 88B, 1081, Oslo, Norway

**Model identifier:** 3220219

## Type of light source:

Lighting technology used:	LED	Non-directional or directional:	DLS
Light source cap-type (or other electric interface)	Terminal		
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:	Yes

## Product parameters

Parameter	Value	Parameter	Value
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	10	Energy efficiency class	F
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	680 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	2000...2800
On-mode power ( $P_{on}$ ), expressed in W	10,0	Standby power ( $P_{sb}$ ), expressed in W and rounded to the second decimal	0,50
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	95
Outer dimensions without	Height	Spectral power distribution in the	See image in last page
	Width		
	Depth		

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 <sup>(a)</sup>	Yes	If yes, equivalent power (W)	10	
		Chromaticity coordinates (x and y)	0,437 0,403	
<b>Parameters for directional light sources:</b>				
Peak luminous intensity (cd)	1 227	Beam angle in degrees, or the range of beam angles that can be set	35	
<b>Parameters for LED and OLED light sources:</b>				
R9 colour rendering index value	97	Survival factor	0,90	
the lumen maintenance factor	0,96			
<b>Parameters for LED and OLED mains light sources:</b>				
displacement factor (cos $\phi$ 1)	0,50	Colour consistency in McAdam ellipses	3	
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)	0,6	Stroboscopic effect metric (SVM)	0,1	

(a) : not applicable;

(b) : not applicable;

## Spectrum Test Report

Sample :  
Specification : 3220219  
Sample No. : 4  
Manufacturer : EVERFINE

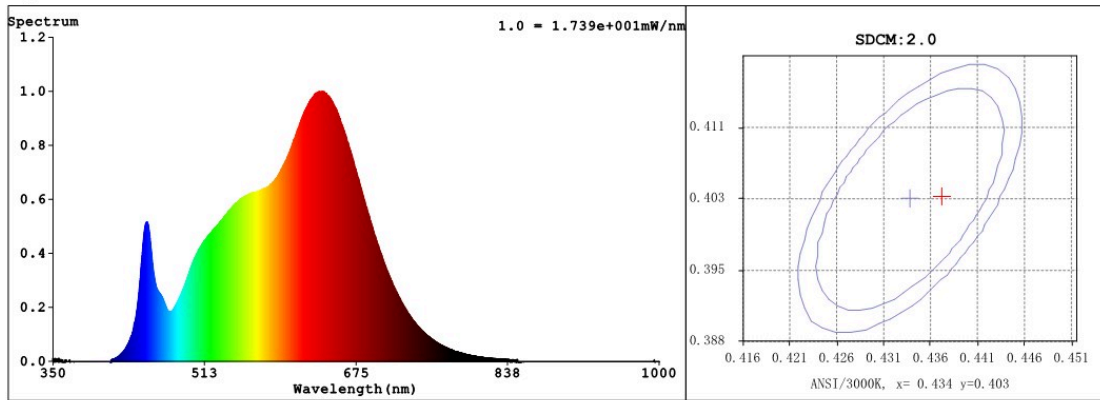
Date : 2021-05-20 15:03:01  
Sam. Status :  
Instrument : HAAS-2000(EVERFINE)  
Test by : DAMIN  
Assessor : damin

### Test Condition

Temperature : 85Deg  
WL Range : 350nm-1000nm  
Test Mode : Fast Test

RH : 65.0%  
IP : 55589 (85%)  
T : 463 ms  
Sensitivity : High

### Spectrum



### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.4372$   $y = 0.4033$  /  $u' = 0.2511$   $v' = 0.5211$  ( $duv = -3.64e-04$ )  $Dx, Dy: -0.0005, -0.0011$

CCT= 2989K Prcp WL:  $L_d = 583.0nm$  Purity=52.3%

Peak WL:  $L_p = 639nm$  FWHM: =166.7nm Ratio: R=25.3% G=71.8% B=2.9%

Render Index:  $R_a = 97.3$  AvgR = 96.3 TM30:Rf=96 Rg=103

R1 =98 R2 =99 R3 =94 R4 =96 R5 =99 R6 =98 R7 =98

R8 =97 R9 =97 R10=96 R11=94 R12=87 R13=99 R14=95 R15=98

LEVEL:OUT WHITE:ANSI\_3000K

### Photometric & Radiometric Parameters

Flux = 778.83 lm Eff. : 79.69 lm/W  $F_e = 2.9886 W$

Scotopic:1129.7 S/P:1.4505 (EQE):3136.3%

Flux of emitted photons( $\mu mol/s$ ):14.87 Fluo. and blue light ratio:12.26 Fluorescent eff.:258.9

B:  $2.9886e+003mW$

### Electrical parameters

V = 230.9 V I = 0.04623 A P = 9.773 W PF = 0.9157

Kdisp(IEC) = 0.9519 Freq=49.99 Hz