

# Product Information Sheet

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

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

**Supplier's address:** Qualitätssicherung, Oberlaaerstraße 284, 1230 Wien, AT

**Model identifier:** LED 12g 12W SMD(60pcs) 563x5,8mm Band 3000K

## Type of light source:

Lighting technology used:	LED	Non-directional or directional:	NDLS
Light source cap-type (or other electric interface)	LED module		
Mains or non-mains:	NMLS	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	11	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°)	1 275 in Sphere (360°)	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	10,9	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	80
Outer dimensions without separate control gear, lighting control	Height	563	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	6	
	Depth	1	
			See image in last page

parts and non-lighting control parts, if any (millimetre)			
Claim of equivalent power <sup>(a)</sup>	-	If yes, equivalent power (W)	-
		Chromaticity coordinates (x and y)	0,440 0,403
<b>Parameters for LED and OLED light sources:</b>			
R9 colour rendering index value	2	Survival factor	0,90
the lumen maintenance factor	0,96		

(a) : not applicable;

(b) : not applicable;

Sample No.	Initial Flux (lm)	3600H Flux (lm)	X <sub>LUM,MIN</sub> % at 3600H	Survival factor at 3600H	Measured beam angle (°)	Measured I <sub>max</sub> (cd)	Measured light output within π sr
1#	5122.0	4937.6	96.4%	Yes	-	-	-
2#	5114.5	4925.3	96.3%	Yes	-	-	-
3#	5156.4	4970.8	96.4%	Yes	-	-	-
4#	5211.8	5013.8	96.2%	Yes	-	-	-
5#	5238.6	5071.0	96.8%	Yes	-	-	-
6#	5143.7	4979.1	96.8%	Yes	-	-	-
7#	5157.0	4986.8	96.7%	Yes	-	-	-
8#	5238.6	5029.1	96.0%	Yes	-	-	-
9#	5231.7	5064.3	96.8%	Yes	-	-	-
10#	5249.8	5066.1	96.5%	Yes	-	-	-
Average	5186.4	5004.4	96.5%	Yes	-	-	-
Required	--	--	≥ 96%	≥ 90%	-	-	-

Sample No.	Measured voltage(V)	Measured current (mA)	Input wattage (W)	Output wattage (W)	Energy efficiency	P <sub>no</sub> (W)	P <sub>sb</sub> (W)	P <sub>net</sub> (W)
1#	229.9	247.3	54.0	49.6	91.8%	0.312	--	--
2#	230.0	248.7	54.3	49.6	91.3%	0.339	--	--
3#	230.1	248.2	54.5	49.5	90.7%	0.311	--	--
Average	230.0	248.1	54.3	49.5	91.3%	0.321	--	--
Required	--	--	--	--	≥84.8%	≤0.5	≤0.5	≤0.5

