

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 12n 12W SMD(60pcs) 422x5mm 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
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	11	Energy efficiency class	E
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°)	1 300 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	10,8	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	80
Outer dimensions without separate control gear, lighting control	Height	422	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	5	
	Depth	1	
			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)	0,440 0,403
Parameters for LED and OLED light sources:			
R9 colour rendering index value	3	Survival factor	0,90
the lumen maintenance factor	0,96		

(a) : not applicable;

(b) : not applicable;

Sample No.	Initial Φuse (lm)	3600H Φuse (lm)	X _{LUM,MIN} % at 3600H	Survival factor at 3600H	Measured beam angle (°)	Measured I _{max} (cd)	Measured light output within π sr
1#	1346.5	1304.8	96.9%	Yes	-	-	-
2#	1327.4	1274.3	96.0%	Yes	-	-	-
3#	1304.7	1253.8	96.1%	Yes	-	-	-
4#	1326.1	1281.0	96.6%	Yes	-	-	-
5#	1319.7	1277.5	96.8%	Yes	-	-	-
6#	1304.4	1261.4	96.7%	Yes	-	-	-
7#	1315.6	1269.6	96.5%	Yes	-	-	-
8#	1307.9	1259.5	96.3%	Yes	-	-	-
9#	1324.0	1279.0	96.6%	Yes	-	-	-
10#	1302.4	1259.4	96.7%	Yes	-	-	-
Average	1317.9	1272.0	96.5%	Yes	-	-	-
Required	--	--	≥ 96%	≥ 90%	-	-	-

Sample No.	Measured voltage(V)	Measured current (mA)	Input wattage (W)	Output wattage (W)	Energy efficiency	P _{no} (W)	P _{sb} (W)	P _{net} (W)
1#	230.1	130.0	16.0	13.9	87.0%	0.328	--	--
2#	230.0	131.5	16.2	13.9	85.9%	0.326	--	--
3#	229.9	132.6	16.4	14.0	85.6%	0.324	--	--
Average	230.0	131.4	16.2	13.9	86.2%	0.326	--	--
Required	--	--	--	--	≥75.2%	≤0.5	≤0.5	≤0.5

