

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 12p 12W SMD(60pcs) 366x5mm 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	366	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;

Table 3 : DL 7-657/24 satin(LED24W/1980lm/3000K)-M

Sample No.	Initial Φuse (lm)	3600H Φuse (lm)	X _{LMF,MIN} % at 3600H	Survival factor at 3600H	Measured beam angle (°)	Measured I _{max} (cd)	Measured light output within π sr
1#	2648.7	2556.0	96.5%	Yes	-	-	-
2#	2666.7	2573.4	96.5%	Yes	-	-	-
3#	2649.2	2545.9	96.1%	Yes	-	-	-
4#	2627.6	2543.5	96.8%	Yes	-	-	-
5#	2631.1	2539.0	96.5%	Yes	-	-	-
6#	2674.7	2573.1	96.2%	Yes	-	-	-
7#	2617.8	2526.2	96.5%	Yes	-	-	-
8#	2604.4	2513.2	96.5%	Yes	-	-	-
9#	2609.2	2525.7	96.8%	Yes	-	-	-
10#	2670.2	2579.4	96.6%	Yes	-	-	-
Average	2640.0	2547.5	96.5%	Yes	-	-	-
Required	--	--	≥ 96%	≥ 90%	-	-	-

Table 4 for model QP-24W LED driver

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	220.9	29.1	25.6	88.1%	0.377	--	--
2#	229.9	224.9	29.8	25.6	85.8%	0.383	--	--
3#	229.9	223.6	29.7	25.6	86.0%	0.396	--	--
Average	230.0	223.1	29.6	25.6	86.6%	0.385	--	--
Required	--	--	--	--	≥80.6%	≤0.5	≤0.5	≤0.5

