

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 12a 12W COB 16x16mm(8mm) 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

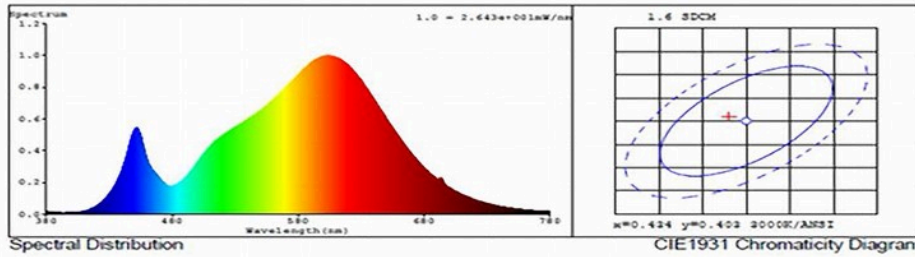
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	12	Energy efficiency class	F
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	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	12,0	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	16	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	16	
	Depth	2	
			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)	0,434 0,403
Parameters for LED and OLED light sources:			
R9 colour rendering index value	10	Survival factor	0,90
the lumen maintenance factor	0,96		

(a) : not applicable;

(b) : not applicable;

1507-8W-12W (3000K)



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4318$ $y = 0.4039$ / $u' = 0.2473$ $v' = 0.5206$ ($duv=6.65e-04$)
CCT= 3087K Prcp WL: Ld=582.2nm Purity=50.9%
Peak WL: Lp=605nm FWHM: =137.5nm Ratio:R=22.4% G=75.2% B=2.4%

Render Index: Ra = 83.1

R1 =81 R2 =90 R3 =97 R4 =82 R5 =81 R6 =87 R7 =85
R8 =62 R9 =11 R10=76 R11=81 R12=69 R13=83 R14=98 R15=75
WHITE:ANSI_3000K

Photometric & Radiometric Parameters

Flux = 1394.8 lm Eff. : 116.58 lm/W Fe = 4.2711 W

Electrical parameters

V = 37.40 V I = 0.3199 A P = 11.96 W PF = 1.000