

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 4-1191

Type of light source:

Lighting technology used:	LED	Non-directional or directional:	NDLS
Light source cap-type (or other electric interface)	connection by soldering		
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	5	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°)	475 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	4,8	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	135	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	3	
	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)	0,440 0,398
Parameters for LED and OLED light sources:			
R9 colour rendering index value	7	Survival factor	0,90
the lumen maintenance factor	0,96		

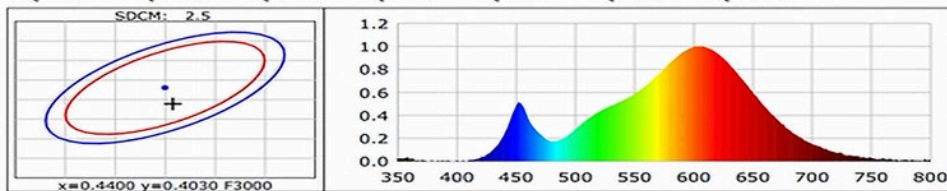
(a) : not applicable;

(b) : not applicable;

Attachment 1: Photometric test record

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4408$ $y=0.3989$ $u(u')=0.2553$ $v=0.3466$ $v'=0.5199$
 CCT: $T_c=2894K$ ($duv=-0.00256$) Color Ratio: $R=0.237$ $G=0.738$ $B=0.024$
 Peak Wavelength: 607.0nm Half Bandwidth: 122.9nm
 Dominant Wavelength: 584.2nm Color Purity: 0.520
 Central Wave: 596.3nm Gravity Wave: 607.0nm
 CRI: $R_a=82.2$ TM30: $R_f=84$, $R_g=97$
 GAI: $GAI_{BB_8}=101.4$, $GAI_{BB_{15}}=107.8$, $GAI_{EES}=55.2$
 R1 =81 R2 =91 R3 =96 R4 =80 R5 =81 R6 =90 R7 =81 R8 =58
 R9 =8 R10=80 R11=79 R12=73 R13=83 R14=99 R15=74
 Color Quality Scale: $Q_a=81.2$, $Q_f=82.3$, $Q_p=84.5$, $Q_g=93.2$
 Q1 =78 Q2 =95 Q3 =81 Q4 =78 Q5 =82 Q6 =82 Q7 =81 Q8 =84
 Q9 =95 Q10=88 Q11=84 Q12=81 Q13=81 Q14=72 Q15=74



Photometric Parameters

Luminous Flux: 481.78 lm
 EEI: 0.11

Efficiency: 98.52 lm/W
 Energy Efficiency Class: A+ (EU 874-2012)

Radiant Power: 1.477 W

Electric Parameters

Voltage: 3.7000V
 Power Factor: 1.0000

Current: 1.3216A
 Frequency: 0.00Hz

Power: 4.89W
 DF: 0.7066

Test Information