## **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: QC/LABOR, Oberlaaerstraße 284, 1230 Wien, AT

Model identifier: LM E27/4,5W i.m. (Standard/2700K/470lm)

## Type of light source:

Lighting technology used:	LED	Non-directional or directional:	NDLS
Light source cap-type	E27		
(or other electric interface)			
Mains or non-mains:	MLS	Connected light source (CLS):	No
Colour-tuneable light source:	No	Envelope:	-
High luminance light source:	No		
Anti-glare shield:	No	Dimmable:	Yes
	Product pa	irameters	

		Flouuct para	ineters		
Parameter		Value	Parameter	Value	
		General product p	arameters:	·	
Energy consum mode (kWh/100 up to the nearest	0 h), rounded	5	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°)		470 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	2 700	
On-mode po expressed in W	ower (P <sub>on</sub> ),	4,5	Standby power (P <sub>sb</sub> ), expressed in W and rounded to the second decimal	0,00	
Networked standby power (P <sub>net</sub> ) 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	Height	105	Spectral power	See image	
	Width	60	distribution in the	in last page	
without	Depth	60	1	Page 1 /	

separate control gear, lighting control parts and non- lighting control parts, if any (millimetre)		range 250 nm to 800 nm, at full-load	
Claim of equivalent power <sup>(a)</sup>	Yes	If yes, equivalent power (W)	40
		Chromaticity coordinates (x and y)	0,463 0,420
Parameters for LED and OLED lig	ht sources:		
R9 colour rendering index value	5	Survival factor	0,90
the lumen maintenance factor	0,94		
Parameters for LED and OLED ma	ains light sources		
displacement factor (cos φ1)	0,50	Colour consistency in McAdam ellipses	6
Claims that an LED light source replaces a fluorescent light source without integrated ballast of a particular wattage.	_(b)	lf yes then replacement claim (W)	-
Flicker metric (Pst LM)	1,0	Stroboscopic effect metric (SVM)	0,4

(a)'-' : not applicable;

(b)'\_-' : not applicable;

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Sample No.	Initial Φuse (Im)	3600Н Физе (Im)	X <sub>LMF/MIN</sub> % at 3600H	Survival factor at 3600H	Measured beam angle (°)	Measured Imax (cd)	Measured light output within $\pi$ sr	
1#	477.3	449.1	94.1%	Yes	- · ·	1012	· 181	
2#	477.1	448.6	94.0%	Yes				
3#	487.4	458.9	94.1%	Yes		-	· ·	
4#	484.8	456.7	94.2%	Yes	182		· · ·	
5#	482.5	453.8	94.0%	Yes				
6#	487.1	460.2	94.5%	Yes	- ~	-		
7#	477.6	449.2	94.1%	Yes	-182	-	Nev.	
8#	479.9	452.9	94.4%	Yes	1.1.1			
9#	481.8	454.0	94.2%	Yes				
10#	474.2	446.7	94.2%	Yes				
Average	481.0	453.0	94.2%	Yes	· · · ·	•	· ·	
Required		S	≥ 94%	≥ 90%	. 120	1200		

Sample No.	Measured voltage(V)	Measured current (mA)	Input wattage (W)	Output wattage (W)	Energy efficiency	Pno (W)	Psb (W)	Pnet (W)
1#	620			1000		100		
2#						X	1	
3#							~ ``	
Average			- C2		<u></u>			140
Required	- 10			>>	_			

