

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 E27/8W klar (Standard/2700K/806lm)

Type of light source:

Lighting technology used:	LED	Non-directional or directional:	NDLS
Light source cap-type (or other electric interface)	E27		
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 parameters

Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	8	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°)	806 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 power (P_{on}), expressed in W	8,0	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	Height	Spectral power distribution in the	See image in last page
	Width		
	Depth		

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 ^(a)	Yes	If yes, equivalent power (W)	60	
		Chromaticity coordinates (x and y)	0,463 0,420	
Parameters for LED and OLED light sources:				
R9 colour rendering index value	13	Survival factor	0,90	
the lumen maintenance factor	0,94			
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ_1)	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)	If yes then replacement claim (W)	-	
Flicker metric (Pst LM)	1,0	Stroboscopic effect metric (SVM)	0,4	

(a): not applicable;

(b): not applicable;

Table 2 : DIM-A60-E27-8W-Clear -6500K

Sample No.	Measured Φuse (lm)	Declared Φuse (lm)	Measured Pon (W)	Declared Pon (W)	F _{TM}	Measured η _{TM} (lm/W)	Declared η _{TM} (lm/W)	Energy efficiency class basing on measured values	Energy efficiency class basing on declared values
1#	832.6	806	7.4	8.0	1.000	113.0	100.8	--	--
2#	827.9	806	7.4	8.0	1.000	112.5	100.8	--	--
3#	827.9	806	7.4	8.0	1.000	111.9	100.8	--	--
Average	829.5	806	7.4	8.0	1.000	112.5	100.8	E	F

Energy efficiency class:
 A: $210 \leq \eta_{TM}$
 B: $185 \leq \eta_{TM} < 210$
 C: $160 \leq \eta_{TM} < 185$
 D: $135 \leq \eta_{TM} < 160$
 E: $110 \leq \eta_{TM} < 135$
 F: $85 \leq \eta_{TM} < 110$
 G: $\eta_{TM} < 85$

Factors F_{TM} by light source type:
 NDLS & MLS: 1,00
 NDLS & NMLS: 0,926
 DLS & MLS: 1,176
 DLS & NMLS: 1,089

Table 3 : DIM-A60-E27-8W-Clear -6500K

Sample No.	Initial Φuse (lm)	3600H Φuse (lm)	X _{LUMF,MIN} % at 3600H	Survival factor at 3600H	Measured beam angle (°)	Measured I _{max} (cd)	Measured light output within π sr
1#	832.6	786.3	94.4%	Yes	-	-	-
2#	827.9	779.5	94.2%	Yes	-	-	-
3#	827.9	779.5	94.1%	Yes	-	-	-
Average	829.5	781.8	94.2%	Yes	-	-	-
Required	≥806	--	≥ 94%	≥ 90%	-	-	-

Table 5: Spectrum & Polar Plot of DIM-A60-E27-8W-Clear -2700K

