

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. (Illu/2700K/450lm)

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	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°)	450 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	4,5	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	72	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	45	
	Depth	45	
			See image in last page

parts and non-lighting control parts, if any (millimetre)			
Claim of equivalent power ^(a)	Yes	If yes, equivalent power (W)	40
		Chromaticity coordinates (x and y)	0,463 0,420
Parameters for LED and OLED light sources:			
R9 colour rendering index value	5	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;

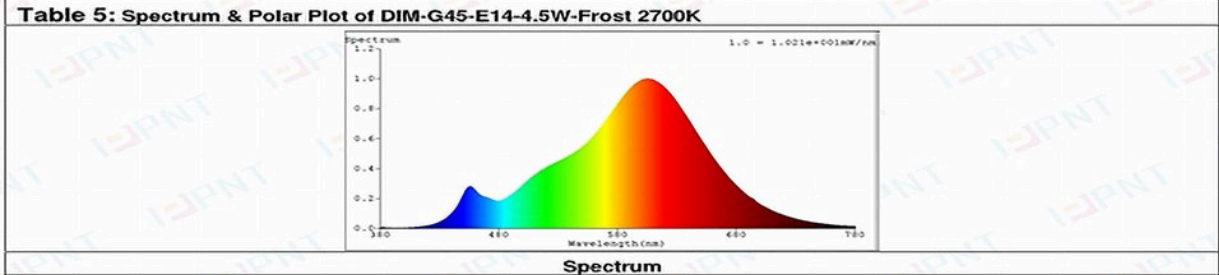
Table 3 : DIM-G45-E14-4.5W-Frost 2700K

Sample No.	Initial Flux (lm)	3600H Flux (lm)	$X_{LMF,MIN}\%$ at 3600H	Survival factor at 3600H	Measured beam angle (°)	Measured I _{max} (cd)	Measured light output within π sr
1#	461.7	435.4	94.3%	Yes	-	-	-
2#	461.6	434.8	94.2%	Yes	-	-	-
3#	454.3	427.6	94.1%	Yes	-	-	-
4#	462.4	435.3	94.1%	Yes	-	-	-
5#	454.7	428.4	94.2%	Yes	-	-	-
6#	456.7	430.8	94.3%	Yes	-	-	-
7#	460.4	433.3	94.1%	Yes	-	-	-
8#	460.6	434.3	94.3%	Yes	-	-	-
9#	457.2	431.2	94.3%	Yes	-	-	-
10#	457.3	430.0	94.0%	Yes	-	-	-
Average	458.7	432.1	94.2%	Yes	-	-	-
Required	--	--	≥ 94%	≥ 90%	-	-	-

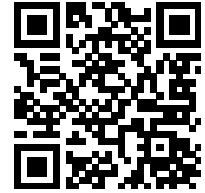
Table 4 for model LED driver

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#	--	--	--	--	--	--	--	--
2#	--	--	--	--	--	--	--	--
3#	--	--	--	--	--	--	--	--
Average	--	--	--	--	--	--	--	--
Required	--	--	--	--	--	--	--	--

Table 5: Spectrum & Polar Plot of DIM-G45-E14-4.5W-Frost 2700K



Model placed on the Union market from 31/01/2022



EPREL registration number: 766970

<https://eprel.ec.europa.eu/qr/766970>

Supplier: Orion Leuchten-Fabrik Molecz & Sohn Gesellschaft m.b.H (Manufacturer)

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