

# 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 16e 16W SMD(80pcs) 607x4,8mm Band 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
<b>General product parameters:</b>			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	15	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°)	1 700 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	14,5	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	607	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	5	
	Depth	1	
			See image in last page

parts and non-lighting control parts, if any (millimetre)			
Claim of equivalent power <sup>(a)</sup>	-	If yes, equivalent power (W)	-
		Chromaticity coordinates (x and y)	0,440 0,403
<b>Parameters for LED and OLED light sources:</b>			
R9 colour rendering index value	3	Survival factor	0,90
the lumen maintenance factor	0,96		

(a) : not applicable;

(b) : not applicable;

**Table 3 : DL 7-645/60 weiß(LED48W/4400lm/3000K)-M**

Sample No.	Initial Flux (lm)	3600H Flux (lm)	X <sub>LUMF,MIN</sub> % at 3600H	Survival factor at 3600H	Measured beam angle (°)	Measured I <sub>max</sub> (cd)	Measured light output within π sr
1#	5112.4	4943.7	96.7%	Yes	-	-	-
2#	5246.5	5062.9	96.5%	Yes	-	-	-
3#	5213.6	5041.6	96.7%	Yes	-	-	-
4#	5154.5	4958.6	96.2%	Yes	-	-	-
5#	5101.2	4917.6	96.4%	Yes	-	-	-
6#	5111.2	4911.9	96.1%	Yes	-	-	-
7#	5202.6	4994.5	96.0%	Yes	-	-	-
8#	5235.2	5067.7	96.8%	Yes	-	-	-
9#	5224.8	5041.9	96.5%	Yes	-	-	-
10#	5134.5	4944.5	96.3%	Yes	-	-	-
Average	5173.6	4988.5	96.4%	Yes	-	-	-
Required	--	--	≥ 96%	≥ 90%	-	-	-

**Table 4 for model QP-TG48W LED driver**

Sample No.	Measured voltage(V)	Measured current (mA)	Input wattage (W)	Output wattage (W)	Energy efficiency	P <sub>no</sub> (W)	P <sub>sb</sub> (W)	P <sub>net</sub> (W)
1#	230.1	247.3	54.0	49.6	91.8%	0.312	--	--
2#	230.1	247.7	54.2	49.5	91.3%	0.328	--	--
3#	229.9	246.1	53.8	49.4	91.7%	0.310	--	--
Average	230.0	247.0	54.0	49.5	91.6%	0.317	--	--
Required	--	--	--	--	≥84.8%	≤0.5	≤0.5	≤0.5

