

#### **EXEMPTION TEST REPORT**

#### COMMISSION REGULATION (EU) 2019/2020 COMMISSION DELEGATED REGULATION (EU) 2019/2015

Report Reference No. ..... AOC250805002ER

Compiled by (print+ signature)...... Bill Hu

Approved by (print+ signature)....... Robin Liu

Lab Supervisor

Testing Laboratory..... Shenzhen AOCE Electronic Technology Service Co., Ltd

Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China

Testing location/address...... Same as above

Applicant's name...... HeNanWeiLaiShiDaiZhiNengKeJiYouXianGongSi

ZhouKouShi TaiKangXian HeNanSheng

Manufacturer name...... Shenzhen E-shine Electronic CO., LTD

district, shenzhen city

Test Object...... LED String lights

Trade Mark..... N/A

Rated frequency (Hz)...... N/A

Rated Power (W)...... N/A

Rated luminous (Im)..... N/A

Rated color temperature (CCT)........: N/A

Rated color tendering (CRI)...... N/A

Rated life (h)...... N/A

Test specification:

COMMISSION DELEGATED REGULATION (EU) 2021/340;

COMMISSION REGULATION (EU) 2021/341

Test procedure.....: Test report

Non-standard test method.....: N/A

Test Report Form No...... IECEE TRF No. (EU) 2019/2020

Test Report Form(s) Originator ......: AOCE

Master TRF.....: 2019-11-30

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Summary of Testing:	
Tests performed (name of test and test clause):	Testing location:
The sample(s) tested complies with the requirements of COMMISSION REGULATION (EU) 2019/2020 and (EU)	Shenzhen AOCE Electronic Technology Service Co., Ltd
2019/2015 for exemption When determining the test conclusion. The Measuremen Uncertainty of test has be enconsidered.	Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China
Possible Test Case Verdicts:	
Test case does not apply to the test object	N/A (Not Applicable)
Test object does meet the requirement	P (Pass)
Test object does not meet the requirement F	F (Fail)
Name and address of factory	Shenzhen E-shine Electronic CO., LTD
	F, B building, A area, Qinyu industial park, sanwei, ixiang, bao'an district, shenzhen city
Testing:	
Ambient temperature of tested 2	25.0 ℃
Test inputs [	OC 4.5V
Sample size for tested	pcs
Date of receipt of test item	2025-07-29
Date (s) of performance of tests	2025-07-29 to 2025-08-05
General Remarks:	
Note: This test report is prepared for the customer shown not be duplicated or use in part without prior written cons Service Co., Ltd	
General product information and other remarks:	
N/A	

## (EU) 2019/2020& (EU) 2019/2015 Clause Requirement + Test Result – Remark Verdict

Article 2	Definitions			
	"light source" means an electrically operated product intended to emit, or, in the case of a non-incandescent light source, intended to be possibly tuned to emit, light, or both, with all of the following optical characteristics:			
-(a)	chromaticity coordinates x and y in the range 0,270 < x < 0,530 and -2,3172 x <sup>2</sup> + 2,3653 x - 0,2199 < y < - 2,3172 x <sup>2</sup> + 2,3653 x - 0,1595;			
-(b)	a luminous flux < 500 lumen per mm2 of projected light- emitting surface area		_	
-(c)	a luminous flux between 60 and 82 000 lumen	See test data table	_	
-(d)	a colour rendering index (CRI) > 0	See test data table	_	
ANNEX III	Exemptions		Р	
1	This Regulation shall not apply to light sources and sepspecifically tested and approved to operate:	parate control gears	N/A	
(a)	in potentially explosive atmospheres, as defined in Directive 2014/34/EU of the European Parliament and of the Council (1);		N/A	
(b)	for emergency use, as set out in Directive 2014/35/EU of the European Parliament and of the Council (2);		N/A	
(c)	in radiological and nuclear medicine installations, as defined in Article 3 of Council Directive 2009/71/EURATOM (3);		N/A	
(d)	in or on military or civil defence establishments, equipment, ground vehicles, marine equipment or aircraft, as set out in Member States' regulations or in documents issued by the European Defence Agency;		N/A	
(e)	in or on motor vehicles, their trailers and systems, interchangeable towed equipment, components and separate technical units as set out in Regulation (EC) No 661/2009 (4), (EU) No 167/2013 (5) and (EU) No 168/2013 of the European Parliament and of the Council (6);		N/A	
(f)	in or on non-road mobile machinery as set out in Regulation (EU) 2016/1628 of the European Parliament and of the Council (7) and in or on their trailers;		N/A	
(g)	in or on interchangeable equipment as set out in Directive 2006/42/EC of the European Parliament and of the Council (8) intended to be towed or to be mounted and fully raised from the ground or that cannot articulate around a vertical axis when the vehicle to which it is attached is in use on a road by vehicles as set out in Regulation (EU) No 167/2013;		N/A	
(h)	in or on civil aviation aircraft, as set out in Commission Regulation (EU) No 748/2012 (9);		N/A	
(i)	in railway vehicle lighting, as set out in Directive 2008/57/EC of the European Parliament and of the Council (10);		N/A	

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(EU) 2019/2020& (EU) 2019/2015					
Clause	Requirement + Test	Result – Remark	Verdict		
(j)	in marine equipment, as set out in Directive 2014/90/EU of the European Parliament and of the Council (11);		N/A		
(k)	in medical devices, as set out in Council Directive 93/42/EEC (12) or Regulation (EU) 2017/745 of the European Parliament and of the Council (13) and in vitro medical devices as set out in Directive 98/79/EC of the European Parliament and of the Council (14).		N/A		
	For the purpose of this point, 'specifically tested and approved' means that the light source or separate control gear:		N/A		
	<ul> <li>has been specifically tested for the mentioned operating condition or application, according to the European legislation mentioned or related implementing measures, or relevant European or international standards, or, in the absence of these, according to relevant Member States legislation; and</li> </ul>		N/A		
	<ul> <li>is accompanied by evidence, to be included in the technical documentation, in the form of a certificate, a type approval mark, a test report, that the product has been specifically approved for the mentioned operating condition or application; and</li> </ul>		N/A		
	<ul> <li>is placed on the market specifically for the mentioned operating condition or application, as evidenced at least by the technical documentation, and except for point (d), information on the packaging and any advertising or marketing materials.</li> </ul>		N/A		
2	In addition, this Regulation shall not apply to:				
(a)	double-capped fluorescent T5 light sources with power P ≤ 13 W;		N/A		
(b)	electronic displays (e.g. televisions, computer monitors, notebooks, tablets, mobile phones, e-readers, game consoles), including displays within the scope of Commission Regulation (EU) 2019/2021 (15), and Commission Regulation (EU) No 617/2013 (16);		N/A		
(c)	light sources and separate control gears in battery- operated products, including but not limited to e.g. torches, mobile phones with an integrated torch light, toys including light sources, desk lamps operating only on batteries, armband lamps for cyclists, solar-powered garden lamps;		N/A		
(d)	light sources for spectroscopy and photometric applications, such as for example UV-VIS spectroscopy, molecular spectroscopy, atomic absorption spectroscopy, nondispersive infrared (NDIR), fourier-transform infrared (FTIR), medical analysis, ellipsometry, layer thickness measurement, process monitoring or environ-mental monitoring;		N/A		
(e)	light sources and separate control gears on bicycles and other non-motorised vehicles.		N/A		

# (EU) 2019/2020& (EU) 2019/2015 Clause Requirement + Test Result – Remark Verdict

3	Any light source or separate control gear within the scope of this Regulation shall be exempt from the requirements of this Regulation, with the exception of the information requirements set out in point 3(e) of Annex II, if they are specifically designed and marketed for their intended use in at least one of the following applications:				
(a)	signalling (including, but not limited to, road-, railway-, marine- or air traffic- signalling, traffic control or airfield lamps);		N/A		
(b)	image capture and image projection (including, but not limited to, photocopying, printing (directly or in preprocessing), lithography, film and video projection, holography);		N/A		
(c)	light sources with specific effective ultraviolet power > 2 mW/klm and intended for use in applications requiring high UV-content;		N/A		
(d)	light sources with a peak radiation around 253,7 nm and intended for germicidal use (destruction of DNA);		N/A		
(e)	light sources emitting 5 % or more of total radiation power of the range 250-800 nm in the range of 250-315 nm and/or 20 % or more of total radiation power of the range 250-800 nm in the range of 315-400 nm, and intended for disinfection or fly trapping;		N/A		
(f)	light sources with the primary purpose of emitting radiation around 185,1 nm and intended to be used for the generation of ozone;		N/A		
(g)	light sources emitting 40 % or more of total radiation power of the range 250-800 nm in the range of 400-480 nm, and intended for coral zooxanthellae symbioses;		N/A		
(h)	FL light sources emitting 80 % or more of total radiation power of the range 250-800 nm in the range of 250-400 nm, and intended for sun-tanning;		N/A		
(i)	HID light sources emitting 40 % or more of total radiation power of the range 250-800 nm in the range of 250-400 nm, and intended for sun-tanning;		N/A		
(j)	light sources with a photosynthetic efficacy > 1,2 µmol/J, and/or emitting 25 % or more of total radiation power of the range 250-800 nm in the range of 700-800 nm, and intended for use in horticulture;		N/A		
(k)	HID light sources with correlated colour temperature CCT > 7 000 K and intended for use in applications requiring such a high CCT;		N/A		
(I)	light sources with a beam angle of less than 10° and intended for spot-lighting applications requiring a very narrow light beam;		N/A		

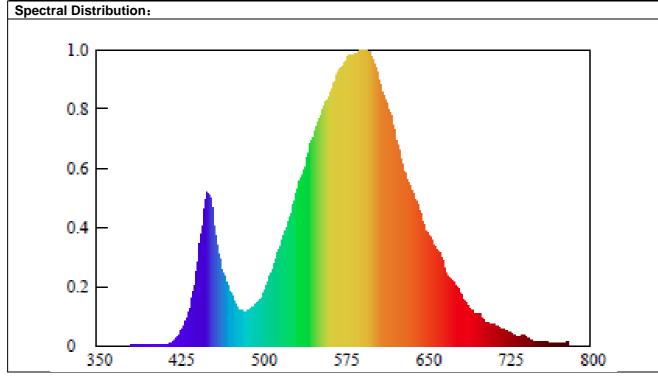
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(EU) 2019/2020& (EU) 2019/2015					
Clause	Requirement + 1	Гest		Result – Remark	Verdict
(m)	halogen light sourd GZ9.5, GZX9.5, G GES/E40 (low volt GX16d, GY16, G2 PGJX28, PGJX 36 12 000 lm, QXL, d scene-lighting use photographic studi discos and during	ZY9.5, GZZ9.5, age (24V) silver 2, G38, GX38, G5, PGJX50, R7s esigned and main film studios, ios, or for stage-		N/A	
(n)	colours listed in the these colours, meaninimum excitation Blue Green Red	is point and which as ured at the document of:  440nm - 490nm  520nm - 570nm  610nm - 670nm  or use in applica	can be set to at least the ch have for each of minant wavelength, a  90% 65% 95% ations requiring high-	Ð	N/A
(o)	light sources according certificate detailing spectrum under spin photometric caling temperature, colour or quality control a coloured surfaces conditions (e.g. states)	g the exact radio pecified condition bration (of e.g. var rendering index applications for the and materials up		N/A	
(p)	light sources provi photosensitive pat other authorised s products), upon pr	ients, to be sold elling points (e.g		N/A	
(q)	incandescent light sources (not including halogen light sources) fulfilling all of the following conditions: power ≤ 40 W, length ≤ 60 mm, diameter ≤ 30 mm, declared suitable for operation at ambient temperature ≥ 300 °C, and intended for use in high temperature applications such as ovens;			0	N/A
(r)	halogen light sources fulfilling all of the following conditions: cap-type G4, GY6.35 or G9, power ≤ 60 W, declared suitable for operation at ambient temperature ≥ 300 ° C, and intended for use in high temperature applications such as ovens;				N/A
(s)	halogen light source cable-, litz wire- or interface, specifica or professional eleblow-moulding progluing, inks, paint a	non-standard of ally designed an ectro-heating equess in PET-Inc	I	N/A	
(t)	ranges 75-80 mm and marketed for i	ap, CCT ≤ 2 500 and 110-120 m ndustrial or prof retch blow-moul ng, gluing, inks,	O K, length not in the m, specifically designed essional electro-heating ding process in PET-		N/A

(EU) 2019/2020& (EU) 2019/2015					
Clause	Requirement + Test	Result – Remark	Verdict		
(u)	single capped fluorescent lamps (CFLni) having a diameter of 16 mm (T5), 2G11 4 pin base, with CCT = 3 200 K and chromaticity coordinates $x = 0.415$ $y = 0.377$ , or with CCT = 5 500 K and chromaticity coordinates $x = 0.330$ $y = 0.335$ , specifically designed and marketed for studio and video applications for traditional filmmaking;		N/A		
(v)	LED or OLED light sources, complying with the definition of 'original works of art' as defined in Directive 2001/84/EC of the European Parliament and of the Council (17), made by the artist him/herself in a limited number below 10 pieces;		N/A		
(w)	white light sources which		N/A		
-(1)	are designed and marketed specifically for scene-lighting use in film-studios, TV-studios and locations, and photographic-studios and locations, or for stage-lighting use in theatres, during concerts or other entertainment events;		N/A		
-(2)	provide two or more of the following specifications:		N/A		
(a)	LED with high CRI > 90;		N/A		
(b)	GES/E40, K39d socket with changeable Colour Temperature down to 1 800 K (undimmed), used with low voltage power supply;		N/A		
(c)	LED rated at 180W and greater and arranged to direct output to an area smaller than the light emitting surface;		N/A		
(d)	DWE lamp type which is a tungsten lamp defined by its wattage (650 W) voltage (120 V) and terminal type (pressure screw terminal);		N/A		
(e)	white bi-colour LED sources;		N/A		
(f)	fluorescent tubes: Min BI Pin T5 and Bi Pin T7 With CRI ≥ 85 and CCT 2 900, 3 000, 3 200, 5 600 or 6 500 K.		N/A		

## **Test Data Table**

Model No.: OKDMX-BWSL-02						
		No-load power P <sub>no</sub> (W)	P <sub>sb</sub> (W)	P <sub>net</sub> (W)	Chromaticity Coordinates	
Sample No.	Pon(W)				х	у
S01				-1	0.4335	0.4181
Verdict	_	_			☐ Exempt  ☑ Not exempt	
Sample No.	Useful luminous flux	CCT(K)	CRI	SDCM	R9	Displacement factor
	Фuse (lm)					
S01	22.46	3170	65.5	10.84	-56	
Verdict	<ul><li>☑ Exempt</li><li>☑ Not exempt</li></ul>	_	☐ Exempt ☐ Not exempt	_	_	_
Conclusion						



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Table **Test Equipment List** 

Equipment Name	Manufacturer	Model No.	Reference No.	Calibration Due Date
2m Integating Sphere	SENSING	SL-300	AOC-S-126	2026-04-13
Horizontal Distribution Photometer	SENSING	GMS1800D	AOC-S-124	2026-04-13
Standard Lamp	SENSING	240V/150W	AOC-S-151	2025-08-01
Digital power meter	HENGHE	WT310E	AOC-S-012	2026-04-13
Digital power meter	SENSING	UI2008	AOC-S-123	2026-04-13
Digital power meter	SENSING	UI2021	AOC-S-123	2026-04-13
DC source	OYHS	OYHS-Z120V-50A	AOC-S-062	2026-04-13
Variable frequency power supply	WOSEN	BP6005	AOC-S-129	2026-04-13
Variable frequency power supply	AIPUSI	KDF-500	AOC-S-130	2026-04-13
Oscilloscope	TEKTRONIX	MDO3012	AOC-S-028	2026-04-13

## **Product Photo**



Fig. 1



Fig. 2

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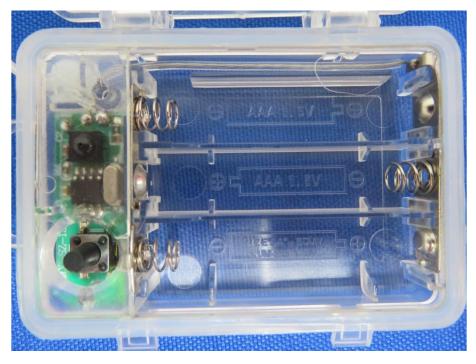


Fig. 3



Fig. 4

-- End of Report --

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