

#### TEST REPORT

## THE ECODESIGN FOR ENERGY-RELATED PRODUCTS AND ENERGY INFORMATION (LIGHTING PRODUCTS) REGULATIONS 2021 2021 No. 1095

Report Reference No. ..... AOC251029014ER

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

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

Lab Supervisor

Date of issue...... 2025-10-31

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...... Guangdong Fengshang Electronics Co., Ltd.

Road, Guicheng Street, NanhaiDistrict, Foshan City, Guangdong

Province, China

Manufacturer name...... Guangdong Fengshang Electronics Co., Ltd.

Road, Guicheng Street, NanhaiDistrict, Foshan City, Guangdong

Province, China

Test Object...... Desktop foldable Beauty Nail Lamp

Trade Mark..... FENGSHANG

Model / Type reference..... F-700C

Rated voltage (V)...... 100-240V~

Rated frequency (Hz)...... 50/60 Hz

Rated Power (W)...... 40 W

Rated luminous (lm)...... 4350 lm

Rated color temperature (CCT)........... 3000-6000 K

Rated color tendering (CRI)...... 80

Rated life (h)..... 20000

Test specification:

**ENERGY** 

INFORMATION (LIGHTING PRODUCTS) REGULATIONS 2021

2021 No. 1095

Test procedure.....: Test report

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

Test Report Form No...... IECEE TRF No. 2021 No. 1095

Tel: (86)755-85277785 Fax: (86)755-23705230 E-mail: postmaster@aoc-cert.com

Summary of Testing:	
Tests performed (name of test and test clause):	Testing location:
The sample(s) tested complies with the requirements of INFORMATION (LIGHTING PRODUCTS)	Shenzhen AOCE Electronic Technology Service Co., Ltd
REGULATIONS 2021 2021 No. 1095 When determining the test conclusion. The Measurement 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
Summary of Compliance with National Differences:	
N/A	
Copy of Marking Plate:	
N/A	

Type of light course.	
Type of light source:	M Light course Consusts control soors
Product type:	
Lighting technology used	
Non-directional or directional	
Use of lamp	·
Light source cap-type (or other electric interface):	·
Mains or non-mains	MLS (mains light source)
	NMLS (non-mains light source)
Connected light source (CLS)	
Colour-tuneable light source	
Envelope:	☐ Yes ☐ No
High luminance light source:	☐ Yes ☐ No
Anti-glare shield:	☐ Yes ☐ No
Dimmable:	
Product parameters	
Parameter:	100-240V~, 50/60Hz, 40W
Energy consumption in on-mode (KWh/1000h):	40
Energy efficiency class	See table 8
Beam angle correspondence:	See table 4
Correlated colour temperature (K)	See table 3
On-mode power (W)	See table 1
Standby power (W)	See table 1
Networked standby power for CLS (W)	See table 1
Colour rendering index:	See table 3
Colour rendering index range (Minimum)	See table 3
Colour rendering index range (Maximum)	See table 3
Claim of equivalent power:	
Equivalent power (W)	_
Chromaticity coordinate (x)	
Chromaticity coordinate (y)	
PARAMETERS FOR DIRECTIONAL LIGHT SOURCE	
Peak luminous intensity (cd):	See table 4
Beam angle (degrees)	See table 4
Beam angle range (Minimum) (degrees)	See table 4
Beam angle range (Maximum) (degrees)	
PARAMETERS FOR LED AND OLED LIGHT SOURCE	
R9 Colour rendering index:	See table 3
Survival factor	See table 4
Lumen maintenance factor	See table 4
PARAMETERS FOR LED AND OLED MAINS LIGHT	

Displacement factor	See table 1
Colour consistency in McAdam ellipses	See table 3
Claims that an LED light source replaces a fluorescent light source without integrated ballast of a particular wattage	☐ Yes ☐ N.A
Replacement claim (W)	1
Flicker metric (W)	See table 5
Stroboscopic effect metric (W)	See table 5
Outer dimensions without (Millimetre)	1
Spectral power distribution in the range 250 nm to 800 nm, at full-load	See table 7
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 (Fail)
Testing:	
Ambient temperature of tested:	25.0 ℃
Test inputs:	230V~
Sample size for tested	10 pcs
Date of receipt of test item	2025-03-06
Date (s) of performance of tests	2025-03-06 to 2025-10-29
Factory information	Guangdong Fengshang Electronics Co., Ltd.
	Room 201, Block 8, Yi 'an Scientific Innovation Park, No.23, Gangkou Road, Guicheng Street, NanhaiDistrict, Foshan City, Guangdong Province, China
General Remarks:	
Note: This test report is prepared for the customer sho not be duplicated or use in part without prior written co Service Co., Ltd	
Note:	
N/A	

# 2021 No. 1095 Clause Requirement + Test Result – Remark Verdict

Functional	requirements		
	otember 2021, the functional requirements of follow table shall apply for light sources:		
	Table 4 Functional requirements for light sources		P
Colour rendering	$\text{CRI} \geq 80$ (except for HID with $\Phi_{\text{out}} > 4$ klm and for light sources intended for use in outdoor applications, industrial applications or other applications where lighting standards allow a CRI- 80, when a clear indication to this effect is shown on the light source packaging and in all relevant printed and electronic documentation)		
Displacement factor (DF, cos $\varphi_1$ ) at power input $P_{on}$ for LED and OLED MLS	No limit at $P_{oa} \le 5$ W, $DF \ge 0.5 \text{ at } 5 \text{ W} < P_{oa} \le 10 \text{ W},$ $DF \ge 0.7 \text{ at } 10 \text{ W} < P_{oa} \le 25 \text{ W}$ $DF \ge 0.9 \text{ at } 25 \text{ W} < P_{oa}$		
Lumen maintenance factor (for LED and OLED)	The lumen maintenance factor $X_{IMF}$ % after endurance testing according to Annex V shall be at least $X_{IMFMIN}$ % calculated as follows: $X_{IMF,MIN}\% = 100 \times \varepsilon \frac{(3000 \times \ln(0.7))}{L_{70}}$ where $L_{70}$ is the declared $L_{70}B_{50}$ lifetime (in hours) If the calculated value for $X_{IMFMIN}$ exceeds 96,0%, an $X_{IMFMIN}$ value of 96,0% shall be used		
Survival factor (for LED and OLED)	Light sources should be operational as specified in row 'Survival factor (for LED and OLED)' of Annex IV, Table 6, following the endurance testing given in Annex V.		
Colour consistency for LED and OLED light sources	Variation of chromaticity coordinates within a six-step MacAdam ellipse or less.		
Flicker for LED and OLED MLS	P <sub>±</sub> LM ≤ 1,0 at full-load		
Stroboscopic effect for LED and OLED MLS	$SVM \le 0.4$ at full-load (except for HID with $\Phi_{usc} > 4$ klm and for light sources intended for use in outdoor applications, industrial applications or other applications where lighting standards allow a CRI< 80)		
Colour rend	dering	See table 3	
Displacements LED and O	ent factor (DF, cos φ1) at power input Pon for LED MLS	See table 1	
Lumen ma	ntenance factor (for LED and OLED)	>96%	1
Survival fac	ctor (for LED and OLED)	See table 4	i
Colour con (SDCM)	sistency for LED and OLED light sources	See table 3	1
Flicker for l (P <sub>st</sub> LM≤ 1.	LED and OLED MLS 0)	See table 5	1
	oic effect for LED and OLED MLS r; From 1 September 2024: SVM ≤ 0.4)	See table 5	ı

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# 2021 No. 1095 Clause Requirement + Test Result – Remark Verdict

3	Information requirements	-
	From 1 September 2021 the following information requirements shall apply:	Р
(a)	Information to be displayed on the light source itself	Р
	For all light sources, except CTLS, LFL, CFLni, ther FL, and HID, the value and physical unit of the useful luminous flux (Im) and correlated colour temperature (K) shall be displayed in a legible font on the surface if, after the inclusion of safety-related information, there is sufficient space available for it without unduly obstructing the light emission.	P
	For directional light sources, the beam angle (°) shall also be indicated.	N/A
	If there is room for only two values, the useful luminous flux and the correlated colour temperature shall be displayed. If there is room for only one value, the useful luminous flux shall be displayed.	Р
(b)	Information to be visibly displayed on the packaging	Р
-(1)	Light source placed on the market, not in a containing product	Р
(a)	the useful luminous flux (Φuse) in a font at least twice as large as the display of the on-mode power (Pon), clearly indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°);	
(b)	the correlated colour temperature, rounded to the nearest 100 K, also expressed graphically or in words, or the range of correlated colour temperatures that can be set;	Р
(c)	the beam angle in degrees (for directional light sources), or the range of beam angles that can be set;	N/A
(d)	electrical interface details, e.g. cap- or connector-type, type of power supply (e.g. 220-240 V AC 50 Hz, 12 V DC);	Р
(e)	the L70B50 lifetime for LED and OLED light sources, expressed in hours;	Р
(f)	the on-mode power (Pon), expressed in W;	Р
(g)	the standby power ( $P_{sb}$ ), expressed in W and rounded to the second decimal. If the value is zero, it may be omitted from the packaging;	Р
(h)	the networked standby power (Pnet) for CLS, expressed in W and rounded to the second decimal. If the value is zero, it may be omitted from the packaging;	N/A
(i)	the colour rendering index, rounded to the nearest integer, or the range of CRI-values that can be set;	Р

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Clause	Requirement + Test	Result – Remark	Verdict	
(j)	if CRI< 80, and the light source is intended for use in outdoor applications, industrial applications or other applications where lighting standards allow a CRI< 80, a clear indication to this effect. For HID light sources with useful luminous flux > 4 000 lm, this indication is not mandatory;		N/A	
(k)	if the light source is designed for optimum use in non- standard conditions (such as ambient temperature Ta ≠ 25 °C or specific thermal management is necessary): information on those conditions;		N/A	
(I)	a warning if the light source cannot be dimmed or can be dimmed only with specific dimmers or with specific wired or wireless dimming methods. In the latter cases a list of compatible dimmers and/or methods shall be provided on the manufacturer's website;		N/A	
(m)	if the light source contains mercury: a warning of this, including the mercury content in mg rounded to the first decimal place;		N/A	
(n)	if the light source is within the scope of Directive 2012/19/EU, without prejudice to marking obligations pursuant to Article 14(4) of Directive 2012/19/EU, or contains mercury: a warning that it shall not be disposed of as unsorted municipal waste.		N/A	
	Items (a) to (d) shall be displayed on the packaging in the direction meant to face prospective buyer; for other items this is also recommended, if space permits.		Р	
	For light sources that can be set to emit light with different characteristics, the information shall be reported for the reference control settings. In addition, a range of obtainable values may be indicated.		N/A	
	The information does not need to use the exact wording on the list above. Alternatively, it may be displayed in the form of graphs, drawings or symbols.		Р	
-(2)	Separate control gears:		N/A	
	If a separate control gear is placed on the market as a stand-alone product and not as a part of a containing product, in a packaging containing information to be visibly displayed to potential buyers, prior to their purchase, the following information shall be clearly and prominently displayed on the packaging:		N/A	
(a)	the maximum output power of the control gear (for HL, LED and OLED) or the power of the light source for which the control gear is intended (for FL and HID);		N/A	
(b)	the type of light source(s) for which it is intended;		N/A	

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Clause	Requirement + Test	Result – Remark	Verdict	
(c)	the efficiency in full-load, expressed in percentage;		N/A	
(d)	the no-load power (Pno), expressed in W and rounded to the second decimal, or the indication that the gear is not intended to operate in no-load mode. If the value is zero, it may be omitted from the packaging but shall nonetheless be declared in the technical documentation and on websites;		N/A	
(e)	the standby power (P <sub>sb</sub> ), expressed in W and rounded to the second decimal. If the value is zero, it may be omitted from the packaging but shall nonetheless be declared in the technical documentation and on websites;		N/A	
(f)	the on-mode power (Pon), expressed in W;		N/A	
(g)	the standby power (P <sub>sb</sub> ), expressed in W and rounded to the second decimal. If the value is zero, it may be omitted from the packaging;		N/A	
(h)	the networked standby power (P <sub>net</sub> ) for CLS, expressed in W and rounded to the second decimal. If the value is zero, it may be omitted from the packaging;		N/A	
(c)	Information to be visibly displayed on a free-access website of the manufacturer, importer or authorised representative		N/A	
-(1)	Separate control gears:		N/A	
	For any separate control gear that is placed on the EU market, the following information shall be displayed on at least one free-access website:		N/A	
(a)	the information specified in point 3(b)(2), except 3(b)(2)(h);		N/A	
(b)	the outer dimensions in mm;		N/A	
(c)	the mass in grams of the control gear, without packaging, and without lighting control parts and non-lighting parts, if any and if they can be physically separated from the control gear;		N/A	
(d)	instructions on how to remove lighting control parts and non-lighting parts, if any, or how to switch them off or minimise their power consumption during control-gear testing for market surveillance purposes;		N/A	
(e)	if the control gear can be used with dimmable light sources, a list of minimum characteristics that the light sources should have to be fully compatible with the control gear during dimming, and possibly a list of compatible dimmable light sources;		N/A	
(f)	recommendations on how to dispose of it at the end of its life in line with Directive 2012/19/EU.		N/A	

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Clause	Requirement + Test	Result – Remark	Verdict
	The information does not need to use the exact wording in the list above. Alternatively, it may be displayed in the form of graphs, drawings or symbols.		N/A
(d)	Technical documentation		N/A
-(1)	Separate control gears:		N/A
	The information specified in point 3(c)(2) of this Annex shall also be contained in the technical documentation file drawn up for the purposes of conformity assessment pursuant to Article 8 of Directive 2009/125/EC.		N/A
(e)	Information for products specified in point 3 of Annex III		N/A
	For the light sources and separate control gears specified in point 3 of Annex III the intended purpose shall be stated in the technical documentation for compliance assessment as per Article 5 of this Regulation and on all forms of packaging, product information and advertisement, together with an explicit indication that the light source or separate control gear is not intended for use in other applications.		N/A
	The technical documentation file drawn up for the purposes of conformity assessment, in accordance with Article 5 of this Regulation shall list the technical parameters that make the product design specific to qualify for the exemption.		N/A
	In particular for light sources indicated in point 3(p) of Annex III it shall be stated: 'This light source is only for use by photo sensitive patients. Use of this light source will lead to increased energy cost compared to an equivalent more energy efficient product.'		N/A
ANNEX III	Exemptions		-
1	This Regulation shall not apply to light sources and se specifically 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

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Clause	Requirement + Test	Result – Remark	Verdict		
(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		
(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		

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Clause	Requirement + Test	Result – Remark	Verdict
	<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
3	Any light source or separate control gear within the sco shall be exempt from the requirements of this Regulation the information requirements set out in point 3(e) of An specifically designed and marketed for their intended u following applications:	on, with the exception of nex II, if they are	-
(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

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Clause	Requirement + 1	est		Result – Remark	Verdict
(e)	light sources emitt of the range 250-8 and/or 20 % or mo 250-800 nm in the disinfection or fly t	300 nm in the rang ore of total radiatio range of 315-400		N/A	
(f)	light sources with around 185,1 nm ageneration of ozor	and intended to be	se of emitting radiation used for the		N/A
(g)	light sources emitt power of the range nm, and intended	e 250-800 nm in th	e range of 400-480		N/A
(h)		e 250-800 nm in th	ore of total radiation e range of 250-400		N/A
(i)		e 250-800 nm in th	nore of total radiation le range of 250-400		N/A
(j)	light sources with and/or emitting 25 the range 250-800 intended for use in	% or more of tota onm in the range of		N/A	
(k)	HID light sources CCT > 7 000 K an requiring such a h	d intended for use			N/A
(1)	light sources with intended for spot-l narrow light beam	ighting application			N/A
(m)	halogen light sources with cap-type G9.5, GX9.5, GY9.5, GZ9.5, GZX9.5, GZY9.5, GZZ9.5, K39d, G9.5HPL, G16d, GES/E40 (low voltage (24V) silver crown only), GX16, GX16d, GY16, G22, G38, GX38, GX38Q, P28s, P40s, PGJX28, PGJX 36, PGJX50, R7s with a luminous flux > 12 000 lm, QXL, designed and marketed specifically for scene-lighting use in film studios, TV studios, and photographic studios, or for stage-lighting use in theatres, discos and during concerts or other entertainment events;				N/A
(n)	colours listed in th	is point and which asured at the dom	n be set to at least the have for each of inant wavelength, a		N/A
	and are intended to	• • •	ons requiring high-		

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Clause	Requirement + Test	Result – Remark	Verdict	
(o)	light sources accompanied by an individual calibration certificate detailing the exact radiometric flux and/or spectrum under specified conditions, and intended for use in photometric calibration (of e.g. wavelength, flux, colour temperature, colour rendering index), or for laboratory use or quality control applications for the evaluation of coloured surfaces and materials under standard viewing conditions (e.g. standard illuminants);		N/A	
(p)	light sources provided specifically for use by photosensitive patients, to be sold in pharmacies and other authorised selling points (e.g. suppliers of disability products), upon presentation of a medical prescription;		N/A	
(q)	incandescent light sources (not including halogen light sources) fulfilling all of the following conditions: power $\leq$ 40 W, length $\leq$ 60 mm, diameter $\leq$ 30 mm, declared suitable for operation at ambient temperature $\geq$ 300 °C, and intended for use in high temperature applications such as ovens;		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 sources with blade contact-, metal lug-, cable-, litz wire- or non-standard customised electrical interface, specifically designed and marketed for industrial or professional electro-heating equipment (e.g. stretch blow-moulding process in PET-Industry, 3D-printing, gluing, inks, paint and coating hardening);		N/A	
(t)	halogen light sources fulfilling all of the following conditions: R7s cap, CCT ≤ 2 500 K, length not in the ranges 75-80 mm and 110-120 mm, specifically designed and marketed for industrial or professional electro-heating equipment (e.g. stretch blow-moulding process in PET-Industry, 3D-printing, gluing, inks, paint and coating hardening);		N/A	
(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	

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Clause	Requirement + Test	Result – Remark	Verdict
(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
4	CLS and CSCG designed and marketed specifically for film-studios, TV-studios and locations, and photograph locations, or for stage-lighting use in theatres, discos a other entertainment events, for connection to high specutilising signalling rates of 250 000 bits per second an listening mode, shall be exempt from the requirements on networked standby (Pnet) of points 1(a) and 1(b) of	nic studios and and during concerts or ed control networks d higher) in always- on standby (Psb) and	
ANNEX IV	Verification procedure for market surveillance purpose	s	N/A
ANNEX V	Functionality after endurance testing		-
	Models of LED- and OLED- light sources shall undergo end their lumen maintenance and survival factor. This endurance test method outlined below. The authorities of a Member State model for this test.	ce testing consists of the	P
	The endurance test for LED and OLED light sources shall be conducted as follows:		Р
(a)	Ambient conditions and test setup:		Р
-(i)	The switching cycles are to be conducted in a room with an ambient temperature of 25 $\pm$ 10 °C and an average air velocity of less than 0,2 m/s.		Р

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Clause	Requirement + Test	Result – Remark	Verdict				
-(ii)	The switching cycles on the sample shall be conducted in free air in a vertical base-up position. However, if a manufacturer or importer has declared the light source suitable for use in a specific orientation only, then the sample shall be mounted in that orientation.		Р				
-(iii)	The applied voltage during the switching cycles shall have a tolerance within 2 %. The total harmonic content of the supply voltage shall not exceed 3 %. Standards provide guidance on the supply voltage source. Light sources designed to be operated on mains voltage shall be tested at 220-240 V, 50 Hz supply, even if the products are able to be operated on variable supply conditions.		N/A				
(b)	Endurance test method:		Р				
-(i)	Initial flux measurement: measure the luminous flux of the light source prior to starting the endurance test switching cycle.		Р				
-(ii)	Switching cycles: operate the light source for 1 200 cycles of repeated, continuous switching cycles without interruption. One complete switching cycle consists of 150 minutes of the light source switched ON at full power followed by 30 minutes of the light source switched OFF. The hours of operation recorded (i.e. 3 000 hours) include only the periods of the switching cycle when the light source was switched ON, i.e. the total test time is 3 600 hours.		Р				
-(iii)	Final flux measurement: at the end of the 1 200 switching cycles, note if any light sources have failed (see 'Survival factor' in Annex IV, Table 6 of this Regulation) and measure the luminous flux of the light sources that have not failed.		Р				
-(iv)	For each of the units in the sample which have not failed, divide the measured final flux by the measured initial flux. Average the resulting values over all the units that did not fail to compute the determined value for the lumen maintenance factor XLMF %.		Р				

Table

Table 1

Model No.: F-700C

Sample No.	Pon(W)	No-load power Pno(W)	Standby power P <sub>sb</sub> (W)	Networked standby power Pnet(W)	Displacement factor
S01	39.78	0.15	0.27	N/A	0.95
S02	39.96	0.16	0.27	N/A	0.94
S03	39.62	0.17	0.27	N/A	0.94
S04	39.91	0.16	0.27	N/A	0.94
S05	39.71	0.16	0.27	N/A	0.94
S06	39.74	0.16	0.26	N/A	0.93
S07	39.92	0.16	0.27	N/A	0.94
S08	39.64	0.16	0.27	N/A	0.94
S09	39.85	0.16	0.27	N/A	0.94
S10	39.97	0.16	0.26	N/A	0.93
Average value	39.81	0.16	0.27	N/A	0.94
limit value	≤41.47	< 0.5	< 0.5	N/A	≥0.9

Table 2

Model No.: F-700C

Ponmax = C × (L + Φuse / (F × η)) × R										
P <sub>onmax</sub> (W)	С	L	Φuse / (F × η)	Фuse	F	η	R=(CRI+80)/16 0	CRI	80	160
41.47	1.08	1.5	36.40	4367.9	1	120	1.01	82.1	80	160

Table 3

Model No.: F-700C

meder ten.						
Sample No.	Chromaticity x	y Coordinates y	CCT(K)	CRI	SDCM	R9
S01	0.3165	0.3382	6248	82.1	2.8	9
S02	0.3187	0.3399	6280	82.2	4.3	8
S03	0.3175	0.3386	6292	82.1	3.6	9
S04	0.3191	0.3399	6204	81.9	4.6	9
S05	0.3171	0.3393	6280	82.0	3.1	9
S06	0.3166	0.3379	6315	82.2	3.0	9
S07	0.3168	0.3376	6177	82.1	3.3	9
S08	0.3181	0.3389	6245	81.9	4.0	8
S09	0.3184	0.3386	6302	82.2	4.4	9
S10	0.3178	0.3399	6188	82.2	3.5	9

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Average value	0.3177	0.3389	6253	82.1	3.7	9

Table 4

Model No.: F-700C

Sample No.	Useful luminous flux Фuse (lm) at 0h	Useful luminous flux Φ use (lm) at 3600h	Lumen maintenance factor	Survival factor	Beam angle(°)	Peak luminous intensity (cd)
S01	4367.5	4213.1	96.47%	100%	N/A	N/A
S02	4403.8	4245.5	96.41%	100%	N/A	N/A
S03	4426.2	4260.9	96.26%	100%	N/A	N/A
S04	4391.9	4249.4	96.76%	100%	N/A	N/A
S05	4370.4	4210.2	96.34%	100%	N/A	N/A
S06	4343.3	4192.8	96.54%	100%	N/A	N/A
S07	4383.0	4215.8	96.18%	100%	N/A	N/A
S08	4247.9	4098.2	96.48%	100%	N/A	N/A
S09	4330.2	4173.4	96.38%	100%	N/A	N/A
S10	4414.4	4251.3	96.31%	100%	N/A	N/A
Average value	4367.9	4211.1	96.41%	100%	N/A	N/A

Table 5

Model No.: F-700C

Comple No	Flicker for LED and OLED MLS	Stroboscopic effect for LED and OLED MLS
Sample No.	(P <sub>st</sub> LM≤ 1.0)	(SVM ≤ 0.9; From 1 September 2024: SVM ≤ 0.4)
S01	0.228	0.138
S02	0.259	0.128
S03	0.189	0.132
S04	0.214	0.126
S05	0.186	0.119
S06	0.196	0.134
S07	0.182	0.129
S08	0.249	0.128
S09	0.238	0.144
S10	0.200	0.131
Average value	0.214	0.131

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Table

Table 6

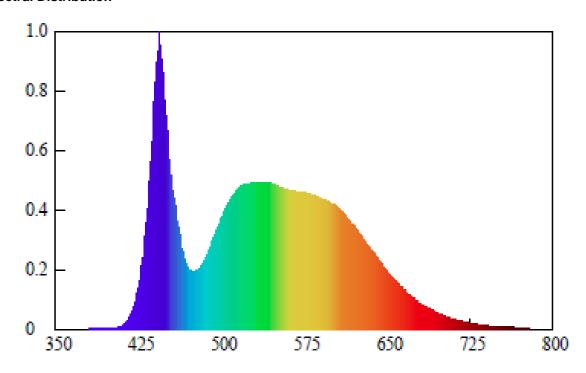
Model No.:

/

Sample No.	Control gear efficiency
-	-
-	-
-	-
Average value	-

Table 7

Model No.: F-700C **Spectral Distribution** 



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# 2021 No. 1095 Clause Requirement + Test Result – Remark Verdict

ANNEX II	Energy efficiency classes a	nd calculation method		-
	The energy efficiency class of determined as set out in Tablomains efficacy η <sub>TM</sub> , which is of declared useful luminous flux declared on-mode power con W) and multiplying by the appart of the follows:	e 1, on the basis of the total calculated by dividing the $\Phi_{\text{use}}$ (expressed in lm) by the sumption $P_{\text{on}}$ (expressed in		Р
	$\eta_{TM} = (\Phi_{use}/P_{on}) \times F_{TM} (Im/W)$	).	See table 8	Р
	Energy efficiency class	Total mains efficacy η <sub>TM</sub> (lm/W) 210 ≤ η <sub>TM</sub>	See table 8	Р
	В	185 ≤ η <sub>TM</sub> < 210		
	С	160 ≤ η <sub>™</sub> < 185		
	D	135 ≤ η <sub>TM</sub> < 160		
	E	110 ≤ η <sub>TM</sub> < 135		
	F	85 ≤ η <sub>TM</sub> < 110		
	G	η <sub>TM</sub> < 85		
	Factors F <sub>TM</sub> by I	ight source type		-
	Light source type	Factor FTM		
	Non-directional (NDLS) operating on mains (MLS)	1,000		
	Non-directional (NDLS) not operating on mains (NMLS)	0,926		
	Directional (DLS) operating on mains (MLS)	1,176		
	Directional (DLS) not operating on mains (NMLS)	1,089		
ANNEX III	Label for light sources			1
1	LABEL			-
	If the light source is intended point of sale, a label produce information as set out in this individual packaging.		Р	
	Suppliers shall choose a labe and point 1.2 of this Annex.	l format between point 1.1		Р
	The label shall be:			Р

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	2021 No. 1095		
Clause	Requirement + Test	Result – Remark	Verdict
	<ul> <li>for the standard-sized label at least 36 mm wide and 75 mm high;</li> </ul>		N/A
	<ul> <li>for the small-sized label (width less than 36 mm) at least 20 mm wide and 54 mm high.</li> </ul>		Р
	The packaging shall not be smaller than 20 mm wide and 54 mm high.		Р
	Where the label is printed in a larger format, its content shall nevertheless remain proportionate to the specifications above. The small-sized label shall not be used on packaging with a width of 36 mm or more.		P
	The label and the arrow indicating the energy efficiency class may be printed in monochrome as specified in points 1.1 and 1.2, only if all other information, including graphics, on the packaging is printed in monochrome.		Р
	If the label is not printed on the part of the packaging meant to face the prospective customer, an arrow containing the letter of the energy efficiency class shall be displayed as hereafter, with the colour of the arrow matching the letter and the colour of the energy class. The size shall be such that the label is clearly visible and legible. The letter in the energy efficiency class arrow shall be Calibri Bold and positioned in the centre of the rectangular part of the arrow, with a border of 0,5 pt in 100 % black placed around the arrow and the letter of the efficiency class.		N/A
	Figure 2 Coloured/monochrome left/right arrow for the part of the packaging facing the prospective customer  B B B B		N/A
1.1	Standard-sized label:		N/A
	(I) SUPPLIER'S NAME (II) MODEL IDENTIFIER  B B (VI)  (III) D  E F  G  (IV) WXYZ  KWII/1000h  (VI)  (VI)  (VI)  (VII)		N/A

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#### 2021 No. 1095 Clause Requirement + Test Result – Remark Verdict Ρ Small-sized label: 1.2 ENERG\* ENERG\* SUPPLIER'S NAME MODEL IDENTIFIER SUPPLIER'S NAME (VI) (VI) (III) (III) Ρ (VII) (VII) The following information shall be included in the label for Р 1.3 light sources: Р I. supplier's name or trade mark; II. supplier's model identifier; Ρ Р III. scale of energy efficiency classes from A to G; IV. the energy consumption, expressed in kWh of electricity consumption per 1 000 hours, of the light source Р in on-mode; V. QR-code; Ρ VI. the energy efficiency class in accordance with Annex II; Ρ VII. the number of this Regulation that is '2019/2015'. Ρ

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#### Table 8 a

Model No.: F-700C

Energy efficiency class						
Total mains efficacy η <sub>TM</sub> (lm/W)	Useful luminous flux Φ <sub>use</sub> (lm) at 0h	Pon(W)	Factor F <sub>™</sub>	Energy Efficiency Class		
109.7	4367.9	39.81	1.000	F		

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#### Test Equipment List

<b>Equipment Name</b>	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	220V/150W	AOC-S-156	2026-06-05
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

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### **Product Photo**



Fig. 1



Fig. 2

-- End of Report --

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