



Product name:	LED bulb
Model No.:	LE-GL-5W-G (G45)
-	
Test standard: _	(EU) 2019/2015&(EU) 2019/2020
Test Date:	Sen 18 2021
	0ep 10.2021

Shenzhen CTNT Testing Technology Co., Ltd.



TEST REPORT			
COMMISSION DELEGATED REGULATION (EU) 2019/2015of 11 March 2019 supplementing Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard to energy labelling of light sources			
COMMISSION REGULATION (EU) 2019/2020of 1 October 2019 laying down ecodesign requirements for light sources and separate control gears pursuant to Directive 2009/125/EC of the European Parliament and of the Council			
Report Number:	CTNT210914004		
Date of issue:	September 27, 2021		
Laboratory Name	Shenzhen CTNT Testing Techno	loav Co Ltd	
Testing location/ address	1A106 No. 109 of Lijia Road, Henggang Community, Henggang Street, Longgang District, Shenzhen, China		
Tested by(Test Engineer):	Rock Zhou	Rock Zhou	
Reviewed By(Supervisor):	Adam Xie	Adam Xie	
Approved by(Chief Engineer):	Flight Lee	CTNT STATES	
Applicant's name:	-Fuzhou Reacheight Imp & Exp C	Co., Ltd.	
Address:	-No. 6, Hou Xiang Lu, Cang Shar	n District,Fuzhou	
Manufacturer name:	-Fuzhou Reacheight Imp & Exp C	Co., Ltd.	
Address:	-No. 6, Hou Xiang Lu, Cang Shar	n District,Fuzhou	
Factory name:	-Fuzhou Reacheight Imp & Exp C	Co., Ltd.	
Address	-No. 6, Hou Xiang Lu, Cang Shar	n District,Fuzhou	



Test specification:			
Standard	COMMISSION DELEGATED REGULATION (EU) 2019/2015of		
	11March 2019&COMMISSION REGULATION (EU) 2019/2020 of 1 October 2019		
Date of receipt of test item	Sep18, 2021		
Date(s) of performance of teses:	Sep18. 2021		
Test item description	-I ED bulb		
Trade Mark:	-N/A		
Manufacturer:	-Fuzhou Reacheight Imp & Exp Co., Ltd.		
Model/Type reference::	-LE-GL-5W-G (G45)		
Ratings:	-AC85-265V		
Possible test case verdicts:			
- test case does not apply to the test	object: N/A		
- test object does meet the requireme	ent: P (Pass)		
- test object does not meet the requirement F (Fail)			
Test item particulars:			
- mains light source (MLS)	\boxtimes		
- non-mains light source (NMLS)			
Light Source Type:			
- directional light source (DLS)			
- non-directional light source (NDLS)	\boxtimes		
Control gear:			
- Integrated	\boxtimes		
- External			
Use of light source:			
- Indoor	\boxtimes		
- Outdoor			
- Industry			
Dimmable light source:			
Declared data for light source:			
Rated Voltage/Frequency			
Rated lamp power	(W): 5		
Rated useful luminous flux	(lm): 500lm		
Rated Ra			



Peak luminous intensity (cd): N/A
Rated beam angle(°): >120°
Rated CCT(K): 2700~7000K
Rated life time(h): >50000
Attachments:
Test data diagram
- Photo documentation
Summary of testing:
According to COMMISSION REGULATION (EU) 2019/2020 of 1 October 2019. The energy efficiency class
of this product is F.
The LED Lamp meets the requirements of table 4 according to the implementation measure No. EU
2019/2020.
These tests were conducted by test lab that fulfils the requirements of standard ISO/IEC 17025.
Generalremarks:
The test results presented in this report relate only to the object tested.
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		· · ·		
Clause	Requirement - Test		Result - Remark	Verdict
Annex II	Energy efficiency classe	s and calculation method		Р
	The energy efficiency clas determined as set out in T total mains efficacy η™, w dividing the declared usefu (expressed in Im) by the du consumption Pon (expressed by the applicable factor FT η™ = (Φuse/Pon) × FTM (Im/V	s of light sources shall be able 1, on the basis of the hich is calculated by al luminous flux Φ_{use} eclared on-mode power ed in W) and multiplying of Table 2, as follows: V).	η™: (500/5)x1.000=100(lm/W)	Р
Table 1	Energy efficiency classe	s of light sources		Р
	Energy efficiency class	Total mains efficacy η™ (Im/W)		Р
	A	210 ≤́ηтм		N/A
	В	185		N/A
	С	160 ≤η™ < 185		N/A
	D	135 ≤дтм < 160		N/A
	E	110 ≤́ηтм< 135		N/A
	F	85 ≤лтм < 110	η™ :100 lm/W Energy efficiency class: F	Р
	G	ηтм < 85		N/A
Table 2	Factors F™ by light source type			Р
	Light source type	Factor F™		Р
	Non-directional (NDLS) operating on mains (MLS)	1,000		Р
	Non-directional (NDLS) not operating on mains (NMLS)	0,926		N/A
	Directional (DLS) operating on mains (MLS)	1,176		N/A
	Directional (DLS) not operating on mains (NMLS)	1,089		N/A



Clause

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0	Measurement methods			Р
	Recognized state of art measurement methods incl. the one published in the Official Journal taking into account the measurement methods of (EU) 2019/2020			Р
	Sample			Р
	Number of sample used for test	10 pcs		Р
Annex II	Ecodesign requirements	-		Р
1	Energy efficiency requirements			
а	Light source Pon			Р
	Evaluation : $P \le P_{onmax}$	P: 5W Ponmax: 6.12W		Р
	Limit definition:			Р
	Ponmax = C×(L+Φuse/(F× η))×R			Р
	The values for threshold efficacy (η in Im/W) and end loss factor (L in W) are specified in Table 1, depending on the light source type.	η=120.0 lm/W L =1.5 W		Р
Table 1	Threshold efficacy (η) and end loss factor (L)	·		
	Light source description	η [lm/W]	L [W]	
	LFL T5-HE	98.8	1.9	
	LFL T5-HO, 4 000 ≤ Φ ≤ 5 000 lm	83.0	1.9	
	LFL T5-HO, other Im output	79.0	1.9	
	FL T5 circular	79.0	1.9	
	FL T8 (including FL T8 U-shaped)	89.7	4.5	
	From 1 September 2023, for FL T8 of 2-, 4- and 5- foot	120.0	1.5	
	Magnetic induction light source, any length/flux	70.2	2.3	
	CFLni	70.2	2.3	
	FL T9 circular	71.5	6.2	Р
	HPS single-ended	88.0	50.0	
	HPS double-ended	78.0	47.7	
	MH ≤ 405 W single-ended	84.5	7.7	
	MH > 405 W single-ended	79.3	12.3	
	MH ceramic double-ended	84.5	7.7	
	MH quartz double-ended	79.3	12.3	
	Organic light-emitting diode (OLED)	65.0	1.5	
	Until 1 September 2023: HL G9, G4 and GY6.35	19.5	7.7	
	HL R7s ≤ 2 700 lm	26.0	13.0	
	Other light sources in scope not mentioned above	120.0	1.5(*)	
	(*) For connected light sources (CLS) a factor L = 2,0	shall be applied	1	



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	Basic values for correction depending on light source for special light source feat specified in Table 2.	factor (C) type, and additions to C ures are	C=1.08	
Table 2	Correction factor C depe	nding on light source ch	aracteristics	
	Light source type		Basic C value	
	Non-directional (NDLS) not (NMLS)	t operating on mains	1.00	
	Non-directional (NDLS) op (MLS)	erating on mains	1.08	
	Directional (DLS) not opera	ating on mains (NMLS)	1.15	
	Directional (DLS) operating	g on mains (MLS)	1.23	
	Special light source featu	ıre	Bonus on C	
	FL or HID with CCT > 5 00	0 K	+0.10	Р
	FL with CRI > 90		0.10	
	HID with second envelope		+0.10	
	MH NDLS > 405 W with no	n-clear envelope	+0.10	
	DLS with anti-glare shield		+0.20	
	Colour-tuneable light source	e (CTLS)	+0.10	
	High luminance light sourc	es (HLLS)	+0,0058 • Luminance HLLS - 0,0167]
	Efficacy factor (F) :		1	Р
	1,00 for non-directional ligh total flux)	nt sources (NDLS, using		Р
	0,85 for directional light so a cone)	urces (DLS, using flux in		N/A
	CRI factor (R):		1	Р
	0,65 for CRI ≤ 25			N/A
	(CRI+80)/160 for CRI > 25		R=1.0	Р
	The standby power P _{sb} of a	light source shall not exc	eed 0,5 W.	N/A
	The networked standby po	wer Pnet of a connected lig	ht source shall not exceed 0,5 W.	N/A
	The allowable values for Pa	sb and Pnet shall not be add	led together.	N/A
	Minimum energy efficiency	for separate control gear	at full-load	N/A
b	Minimum energy efficiency	for separate control gear	at full-load	N/A
	Declared output power of the control gear (P _{cg}) or declared power of the light source (P _{ls}) in W, as applicable	Minimum energy efficiency		N/A
	Control gear for HL light so	urces:		N/A
	all wattages Pcg	0.91		N/A



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	Control gear for FL light so	ources:		N/A
	Pls ≤ 5	0.71		N/A
	5 < Pis ≤ 100	Pls/(2 × √(Pls/36) + 38/36 × Pls+1)		N/A
	100 < Pis	0.91		N/A
	Control gear for HID light s	sources:	•	N/A
	P _{1s} ≤ 30	0,78		N/A
	30 < Pis ≤ 75	0.85		N/A
	75 < Pıs ≤ 105	0.87		N/A
	105 < Pıs ≤ 405	0.90		N/A
	405 < Pis	0.92		N/A
	Control gear for LED or OL	ED light sources:		N/A
	all wattages P _{cg}	Pcg0,81/(1,09 × Pcg0,81 + 2,10)		N/A
	The no-load power Pno of a only to separate control ge the technical documentation	a separate control gear shal ar for which the manufactur on that it has been designed	not exceed 0,5 W. This applies rer or importer has declared in for no-load mode.	N/A
	The standby power Psb of a	a separate control gear shal	I not exceed 0,5 W.	N/A
	The networked standby po exceed 0,5 W. The allowal	wer P _{net} of a connected sep ble values for P _{sb} and P _{net} sh	arate control gear shall not nall not be added together.	N/A
2	Functional requirements for light sources		Р	
	Colour rendering			Р
	CRI ≥ 80		81.68 (for 3000K).	Р
	except for HID with Φ _{use} > sources intended for use ir industrial applications or of lighting standards allow a 0 indication to this effect is s packag-ing and in all relevant documentation	4 klm and for light n outdoor applications, ther applications where CRI< 80, when a clear hown on the light source ant printed and electronic		N/A
	Displacement factor (DF, c	cos φ1) at power input Pon f	or LED and OLED MLS	N/A
	Pon ≤ 5 W:No limit			N/A
	5 W < Pon ≤ 10 W:DF ≥ 0,5			Р
	10 W < Pon ≤ 25 W:DF ≥ 0,	7		N/A
	25 W < Pon:DF ≥ 0,9			N/A
	Lumen maintenance factor	r (for LED and OLED)	•	Р
	XLMF%≥ XLMF,MIN% XLMF,MIN% = 100 × e^(3000 ×In	n(0.7)) /L70	X _{LMF,MIN} % =96.00% (L70B50=50000h)	Р
	Survival factor (for LED an	d OLED)	1	P
	SF ≥ 90%			P
	Colour consistency for LEI	D and OLED light sources		P
	Variation of chromaticity co step MacAdam ellipse or le	pordinates within a six-	4.66 (for 3000K)	Р



(a)

(b)

(C)

(d)

(e)

(f)

(g)

(h)

(90°);

V DC);

packaging;

that can be set;

expressed in hours;

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Clause	Requirement - Test	Result - Remark	Verdict
	Flicker for LED and OLED MLS		N/A
	PstLM ≤ 1,0 at full-load		P
	Stroboscopic effect for LED and OLED MLS		N/A
	SVM ≤ 0,4 at full-load		P
	except for HID with $\Phi_{use} > 4$ klm and for light sources intended for use in outdoor applications, industrial applications or other applications where lighting standards allow a CRI< 80		N/A
3	Information requirements		N/A
(a)	Information to be displayed on the light source itself		N/A
	For all light sources, except CTLS, LFL, CFLni, other FL, and HID, the value and physical unit of the useful luminous flux (Im) and correlated colourtemperature (K) shall be displayed in a legible font on the surface if, after the inclu-sion of safety-related information, there is sufficient space available for it without unduly obstructing the light emission.		N/A
	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 dis-played. If there is room for only one value, the useful luminous flux shall be displayed.		N/A
(b)	Information to be visibly displayed on the packaging		N/A
(1)	Light source placed on the market, not in a containing productlf a light source is placed on the market, not in a containing product, in a packaging containing information to be visibly displayed at a point-of-sale prior to its purchase, the following information shall be clearly and promi-nently displayed on the packaging:		N/A
(1)	containing information to be visibly displayed at a point-of-sale prior to its purchase, the following information shall be clearly and promi-nently displayed on the packaging: the useful luminous flux (Φ _{use}) 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

the correlated colour temperature, rounded to the nearest 100 K, also expressed graphically or in words,

or the range of correlated colour temperatures

the beam angle in degrees (for directional light

sources), or the range of beam angles that can be set; electrical interface details, e.g. cap- or connector-

type, type of power supply (e.g. 230 V AC 50 Hz, 12

the L70B50 lifetime for LED and OLED light sources,

the on-mode power (Pon), expressed in W;

it may be omitted from the packaging;

the standby power (Psb), expressed in W and rounded to the second decimal. If the value is zero,

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

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A



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(EU) No 2019/2020 Requirement - Test Result - Remark Verdict Clause the colour rendering index, rounded to the nearest (i) N/A integer, or the range of CRI-values that can be set; 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< (j) N/A 80, a clear indication to this effect. For HID light sources with useful luminous flux > 4000 lm.this indication is not mandatory; if the light source is designed for optimum use in non-standard conditions (such as ambient temperature Ta ≠ 25 °C or specific thermal (k) N/A management is necessary): information on those conditions: 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 (I) N/A latter cases a list of compatible dimmers and/or meth-ods shall be provided on the manufacturer's website; if the light source contains mercury: a warning of (m) this, including the mercury content in mg rounded to N/A the first decimal place; 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 (n) N/A 2012/19/EU, or contains mercury: a warning that it shall not be disposed of as unsorted municipal waste. Separate control gears: 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 (2) N/A potential buyers, prior to their pur-chase, the following information shall be clearly and prominently displayed on the packaging: the maximum output power of the control gear (for HL, LED and OLED) or the power of the light source N/A (a) for which the control gear is intended (for FL and HID); (b) the type of light source(s) for which it is intended; N/A (c) the efficiency in full-load, expressed in percentage; N/A 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. (d) N/A If the value is zero, it may be omitted from the packaging but shall nonetheless be declared in the technical documentation and on websites; the standby power (Psb), expressed in W and rounded to the second decimal. If the value is zero, it may be omitted from the packaging but shall (e) N/A nonetheless be declared in the technical documentation and on websites; where applicable, the networked standby power (Pnet), expressed in W and rounded to the second decimal. If the value is zero, it may be omitted from (f) N/A the packaging but shall nonetheless be declared in the technical documentation and on websites;



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(g)	a warning if the control gear is not suitable for dimming of light sources or can be used only with specific types of dimmable light sources or using specific wired or wireless dimming methods. In the latter cases, detailed information on the conditions in which the control gear can be used for dimming shall be provided on the manufacturer's or importer's website;	N/A
(h)	a QR-code redirecting to a free-access website of the manufacturer, importer or authorisedrepresentative, or the internet address for such a website, where full information on the control gear can be found.	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: 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-light-ing 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
(d)	Technical documentation	N/A
(1)	Separate control gears: 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 II	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 orseparate 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



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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		N/A	
	(EU) No 2019/2020 Requirement - Test 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.'	(EU) No 2019/2020 Requirement - Test Result - Remark 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.'	



Table 1Useful luminous flux Φ _{use} (Im)										
Model:	LE-GL-5W-G (G45)		5) V	oltage (V):	230		Frequency(Hz):		50	
TestNo.	1	2	3	4	5	6	7	8	9	10
Фuse Test Data for3000K	464.05	464.41	464.3	1 464.16	465.40	465.57	466.23	466.71	466.55	466.81
Average Test Data for 3000K			465.42	2						

Table 2 On-mode power consumption Pon(W)											
Model:	LE-GL-5W-G (G45)		5) Volt	Voltage (V):		230		Frequency(Hz):		50	
TestNo.	1	2	3	4	5	6	7	8	9	10	
Pon(W) Test Data for 3000K	5.23	5.14	5.21	5.16	5.23	5.17	5.22	5.19	5.25	5.19	
Test I	Average Data for 30	00K	5.199								

Table 3 Minimum energy efficiency for separate control gear at full-load test data							
LED Driver Model:	-						
Test Voltage							
(V)/Frequency(Hz):	-						
		Measured Value					
Sample No	no-load power Pno(W)	standby power P _{sb} (W)	networked standby power P _{net} (W)	Minimum energy efficiency at full- load(%)			
S01							
S02							
S03							
Average							
Limit	≪0.5W	≪0.5W	≪0.5W	≥?			
Verdict	N/A	N/A	N/A	N/A			
Remark: The control Limit requirement: Minit The no-load power Pnc	gear (P _{cg}) is LED or O mum energy efficiency o of a separate control	LED control gear Dec r at full-load limit \geq F gear shall not exceed	lared output power. 2cg0,81/(1,09 × Pcg0,81 · 0,5 W.s	+ 2,10) =?			



Table 4 Functional requirements for light source test data (Initial)									
Model:	LE-GL-5W-G (G45)		Voltage (V):		230	Frequency (Hz):		50	
Measured Value of 3000K									
Sample No	P (W)	DF	Фtotal (lm)	Фuse(Im)	ССТ (К)	Ra	Color Consistency	Pst LM	SVM
1	5.19	0.977	464.05	464.05	3006.9	81.756	4.5	0.12	0.05
2	5.25	0.976	464.41	464.41	3013.6	81.622	4.6	0.12	0.05
3	5.19	0.977	464.31	464.31	3019.2	81.555	4.6	0.11	0.06
4	5.22	0.977	464.16	464.16	3013.7	81.649	4.6	0.11	0.07
5	5.17	0.977	465.40	465.40	3015.6	81.594	4.7	0.11	0.05
6	5.23	0.977	465.57	465.57	3017.2	81.565	4.6	0.12	0.06
7	5.16	0.976	466.23	466.23	3022.1	82.031	4.7	0.11	0.05
8	5.21	0.975	466.71	466.71	3015.3	81.677	4.7	0.12	0.05
9	5.14	0.977	466.55	466.55	3014.7	81.721	4.8	0.12	0.05
10	5.23	0.977	466.81	466.81	3018.9	81.659	4.8	0.12	0.06
Average	5.199	0.9766	465.42	465.42	3015.72	81.68	4.66	0.116	0.055
Limit			≥ 60				<6	≤ 1.0	≤ 0.4
Verdict	Р	Р	Р	Р	Р	Р	Р	Р	Р

Supplementary information:

In the harmonic mode of the power meter, the phase difference between the voltage and the fundamental wave of the current is obtained, and then the phase difference cosine is processed to obtain DF.



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Table 5 Functional requirements for light source test data (After 3600h endurance testing)									
Model:	LE-GL-5W-G (G45)		Voltage (V):	230	Frequency (Hz):		50		
Measure	d Value of 30	000K							
SampleNo		Survival factor		Øtotal (Im)		Lumen maintenance factor (%)			
	1			458	3.77	98.6			
	2			459	0.33		98.7		
	3			459.16		98.7			
	4				457.89		98.4		
5				458	3.32	98.5			
	6			458.10		98.4			
	7			45	9.3	98.7			
	8			457	7.67	98.3			
	9			458.96		98.6			
	10				3.43	98.6			
Ave	Average 100% 458.59		3.59	98.5					
Limit			≥ 90%			≥96.00%			
Verdict		Р		-	-	Р			













