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Report No.:XKE230901038-NYR

APPLICATION FOR TEST REPORT

On Behalf of

Report Reference No.	:	XKE230901038-NYR
Prepared For	:	Shenzhen Shengbai Industry Co.,Ltd.
Address		Building 505, building A, 70-1 Changjiang Pu Road, Heao Community, Yuanshan Street, Longgang District, Shenzhen City
Sample Name	:	Rechargeable desk lamp
Model	2	ML-G04,ML-G02,ML-G01,ML-G03,ML-G05,ML-G06, ML-G07,ML-G08,ML-G09,ML-G10
Trademark		N/A
Prepared By	:	Shenzhen xke Testing Technology Co., Ltd.
Address	:	1/F, Building 4, Zhaofuda Industrial Park, Hongqiaotou , Yanluo Street, Bao 'an District, Shenzhen,China
Date of Receipt	:	Mar.02, 2023
Date of Test	:	Mar.02, 2023, 2023 to Sep.07, 2023
Data of Issue		Sep.07, 2023

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	TEST REPORT
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Approved by (name+signature) :	Tomi Liu
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Dare of issue:	Sep.07, 2023
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Testing Laboratory	Shenzhen xke Testing Technology Co., Ltd.
Testing Eustratory.	
Address:	1/F, Building 4, Zhaofuda Industrial Park, Hongqiaotou , Yanluo
	Street, Bao 'an District, Shenzhen, China
Applicant's name :	
	Shenzhen Shengbai Industry Co.,Ltd.
Applicant's name : Address	Shenzhen Shengbai Industry Co.,Ltd. Building 505, building A, 70-1 Changjiang Pu Road, Head
	Shenzhen Shengbai Industry Co.,Ltd.
Address : Test specification:	Shenzhen Shengbai Industry Co.,Ltd. Building 505, building A, 70-1 Changjiang Pu Road, Heao Community, Yuanshan Street, Longgang District, Shenzhen City
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Address. : Test specification: : Standard. : Test Procedure. : Master TRF. : Test Item description. :	Shenzhen Shengbai Industry Co.,Ltd. Building 505, building A, 70-1 Changjiang Pu Road, Heao Community, Yuanshan Street, Longgang District, Shenzhen City ✓ CIE 13.3:1995; ✓ CIE 18.2:1983; ✓ CIE 97:2005; ✓ CIE 15:2004; ✓ CIE 127:2007; ✓ CIE 84:1989; ✓ EU 2019/2020; ✓ IEC62612: 2013+A1 ✓ EU 2015/1428; ✓ EU 2019/2015 COMMISSION REGULATION (EU) 2019/2020 of 1 October 2019 laying down ecodesign requirements for light sources and separate controlgears pursuant to Directive 2009/ 125/EC of the European Parliament and of the Council and repealing Commission Regulations (EC) No 244/2009, (EC) No 245/2009 and (EU) No 1194/2012 2022- 11-04 Rechargeable desk lamp
Address. : Test specification: : Standard. : Test Procedure. : Master TRF. : Test Item description. : Trade Mark. :	Shenzhen Shengbai Industry Co.,Ltd. Building 505, building A, 70-1 Changjiang Pu Road, Heao Community, Yuanshan Street, Longgang District, Shenzhen City ✓ CIE 13.3:1995; ✓ CIE 18.2:1983; ✓ CIE 97:2005; ✓ CIE 15:2004; ✓ CIE 127:2007; ✓ CIE 84:1989; ✓ EU 2019/2020; ✓ IEC62612: 2013+A1 ✓ EU 2015/1428; ✓ EU 2019/2015 COMMISSION REGULATION (EU) 2019/2020 of 1 October 2019 laying down ecodesign requirements for light sources and separate controlgears pursuant to Directive 2009/ 125/EC of the European Parliament and of the Council and repealing Commission Regulations (EC) No 244/2009, (EC) No 245/2009 and (EU) No 1194/2012 2022- 11-04 Rechargeable desk lamp N/A
Address. : Test specification: : Standard. : Test Procedure. : Master TRF. : Test Item description. : Trade Mark. : Manufacturer. :	 Shenzhen Shengbai Industry Co.,Ltd. Building 505, building A, 70-1 Changjiang Pu Road, Heao Community, Yuanshan Street, Longgang District, Shenzhen City ✓ CIE 13.3:1995; ✓ CIE 18.2:1983; ✓ CIE 97:2005; ✓ CIE 15:2004; ✓ CIE 127:2007; ✓ CIE 84:1989; ✓ EU 2019/2020; ✓ IEC62612: 2013+A1 ✓ EU 2015/1428; ✓ EU 2019/2015 COMMISSION REGULATION (EU) 2019/2020 of 1 October 2019 laying down ecodesign requirements for light sources and separate controlgears pursuant to Directive 2009/125/EC of the European Parliament and of the Council and repealing Commission Regulations (EC) No 244/2009, (EC) No 245/2009 and (EU) No 1194/2012 2022- 11-04 Rechargeable desk lamp N/A Shenzhen Shengbai Industry Co.,Ltd.
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Test item particulars:		7.5.5
Model name	1	ML-G04
Lighting type	:	☑ directional □ non-directional
Rated voltage and frequency	:	DC5.0V, 3.5W
Rated wattage	:	3.5W
Energy efficiency class	:	$\Box A \boxtimes B \Box C \Box D \Box E \Box F \Box G$
Energy consumption in on-mode (kWh/1000h)	:	3.5
Lamp cap	÷	N/A
Nominal luminous flux Φ	:	682lm
Useful luminous flux (Физе)	:	682lm
Declared nTM (lm/W)	-	195lm/W
Declared Colour rendering (CRI)		80
Declared Displacement factor for LED and OLE MLS(DF) Declared Lumen maintenance factor for LED and OLE	:	0.99
Declared Survival factor for LED and OLED	:	100%
Declared colour consistency for LED and OLED	:	1.5
Declared beam angle for DLS		180
Declared lamp life	:	36000h
Declared color temperature	:	6000K
Declared Flicker for LED and OLED MLS	:	0.3
Declared Stroboscopic effect for LED		
And OLED MLS		0.2
	•	0.2
Test case verdicts:		
Test case does not apply to the test object	:	N(A)
Test item does meet the requirement	:	P(ass)
Test item does not meet the requirement	:	F(ail)
Testing:		
Date of receipt of test item	:	Mar.02, 2023
Date(s) of performance of test	:	Mar.02, 2023, 2023 to Sep.07, 2023
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Summary of testing:

- These results are in compliance with the ecodesign requirements of the Commission Regulation (EU) 2019/2020.
- 2. Measurement was conducted at voltage 5VDC and a stable ambient temperature 25±10°C.
- 3、THDu ≤ 3%

General remarks

"(see remark #)" refers to a remark appended to the report. "(see appended table)" refers to a table appended to the report. Throughout this report a comma is used as the decimal separator. The test results presented in this report relate only to the object tested. This report shall not be reproduced except in full without the written approval of the testing laboratory.



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	(EU) 2019/2020		
Clause	Requirement – Test	Result - Remark	Verdict
Annex I	Definitions in Regulation (EU) 2019/2020	A share	Р
1	Number of sample used for test	10 PCS	Р
(3)	Directional Light Source	10.00	N
S.C.	at least 80 % of total luminous flux within a solid angle of π sr (corresponding to a cone with angle of 120°)		N
(15)	Useful luminous flux D use	- Cartana	Р
	for non-directional light sources it is the total flux emitted in a solid angle of 4π sr (corresponding to a 360° sphere)	70	Р
7	for directional light sources with beam angle \geq 90° it is the flux emitted in a solid angle of π sr (corresponding to a cone with angle of 120°)	The are	Ν
ACE	for directional light sources with beam angle $< 90^{\circ}$ it is the flux emitted in a solid angle of $0,586\pi$ sr (corresponding to a cone with angle of 90°)		N
Annex II (Clause)	Energy Efficiency Requirements in Regulation (F	EU) 2019/2020	Р
1.(a)	Energy Efficiency Requirements – Light Source		Р
	On-mode Power Pon (W):	Pon=3.5W	Р
	Maximum Allowed Power Ponmax (W): Ponmax = C x (L + Φ use/(F x η)) x R	Ponmax=5W	Р
	Фuse:	682 lm	
	Threshold efficacy η (lm/W):	195	Р
-1	η for LED:		
1	 η for LED: End loss factor L (W) depending on light source: L for LED: 1.5 	1.5	Р
X	End loss factor L (W) depending on light source:	1.5	P



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	Efficacy Factor F: 0.85 for directional light sources (DLS, using flux in a cone)	NE.	N
1	CRI Factor R: 0.65 for CRI ≤ 25	-NE	Ν
C.	CRI Factor R: (CRI+80)/160 for CRI > 25, rounded to two decimals	R=(80+90)/160	P
5	Correction Factor C Depending on Light Source Characteristics in Table 2	alle.	Ν
	Non-directional (NDLS) not operating on mains (NMLS), Basic Value: 1.00	1.00	Р
2	Non-directional (NDLS) operating on mains (MLS), Basic Value: 1.08		N
7	Directional (DLS) not operating on mains (NMLS), Basic Value: 1.15	-14-	N
	Directional (DLS) operating on mains (MLS), Basic Value: 1.23	7000	N
.13	Special Light Source Bonus on C	de	N
1.(a)	Standby power-Light Source		Ν
	The standby power Psb of a light source shall not exceed 0.5 W	7 Same	N
	The networked standby power Pnet of a connected light source shall not exceed 0.5 W		N
	The allowable values for Psb and Pnet shall not be added together	-05	N
l.(b)	Energy Efficiency Requirements–Separate Control Gear	· (atfull-load)	N
-0	Control gear for LED or OLED light sources: $P_{eg}^{0.81}/(1.09 \times P_{eg}^{0.81} + 2.10)$	KE	N
	The no-load power Pno of a separate control gear shall not exceed 0.5 W	-15	Ν
12	The standby power Psb of a separate control gear shall not exceed 0.5 W		N
Sea.	The networked standby power Pnet of a connected separate control gear shall not exceed 0.5 W	-15-	N



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3.(b)(1)	Light source placed on the market, not in a contai	ning product	Р
3.(b)	Information to be visibly displayed on the packagi	ing	Р
	Beam angle (°) For directional light sources	1.00	N
	Correlated colour temperature (K)	6004K	Р
73	Useful luminous flux (lm)	682lm	Р
3.(a)	Information to be displayed on the light source its	self	P
	Stroboscopic effect for LED and OLED MLS: $SVM \le 0.9$ at full-load	0.000	Р
	Flicker for LED and OLED MLS: Pst LM ≤ 1.0 at full-load	0.000	Р
	Colour consistency for LED and OLED light sources: Variation of chromaticity coordinates within a six-step MacAdam ellipse or less.	1.5	Р
ACT	Survival Factor (for LED and OLED): At least 9 light sources of the test sample must be operational after completing the test in Annex V of this Regulation.		
7	Lumen Maintenance Factor (for LED and OLED). $X_{LMF,MIN}\% = 100 \times e \frac{(3000 \times \ln(0.7))}{L_{70}}$		P
8	No limit at Pon \leq 5W DF \geq 0.5 at 5W < Pon \leq 10W, DF \geq 0.7 at 10W < Pon \leq 25W DF \geq 0.9 at 25W < Pon	Pon=3.5W	P
C.	Displacement Factor DF at Power Input Pon for LED and OLED MLS:		Р
	Colour Rendering Index CRI:≥80	90	Р
2.	FunctionalRequirements-LightSource(Table4)	ACE	Р
-14	The allowable values for Psb and Pnet shall not be added together	ase	N



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A.	Useful luminous flux (lm): -In a font at least twice as large as the display of the on-mode power (Pon)	NE	Р
	-Clearly indicating if it refers to the flux in a sphere(360°), in a wide cone(120°) or in a narrow cone(90°)	TASE 7	
	(b) Correlated Colour Temperature, rounded to the nearest 100 K	16	Р
	(c) Beam angle in degrees For directional light sources	74	N
	(d) electrical interface details, e.g. cap- or connector-type, type of power supply (e.g. 230 V AC 50 Hz, 12 V DC)	5VDC	Р
1	(e) L70B50 lifetime for LED and OLED light sources, expressed in hours	705	Р
	(f) on-mode power (Pon), expressed in W	- 1	Р
1	(g) standby power (Psb), expressed in W and rounded to the second decimal. If the value is zero, it may be omitted from the packaging	CE.	N
	(h) 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	XXE	N
	(i) Colour Rendering Index, rounded to the nearest integer		Р
	(j) Clear indication to this effect, 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.	-1450 -1450	N
~	(k) Information on non-standard conditions (such as ambient temperature Ta \neq 25 °C or specific thermal management is necessary)	NE	N
ÇE	 (l) 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 	The The	P
	(m) if the light source contains mercury: a warning of this, including the mercury content in mg rounded to the first decimal place	TACE	Р



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100	(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	P
.(b)(2)	Separate control gears For separate control gear placed on the market as a stand-alone product, not as a part of a containing product	N
	(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
	(b) the type of light source(s) for which it is intended	N
1	(c) the efficiency in full-load, expressed in percentage	N
ace	(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
	(e) 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 nonetheless be declared in	N
	(f) the networked standby power (Pnet), 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 CE	(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	N
	provided on the manufacturer's or importer's website	1 Car

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1	 (h) a QR-code redirecting to a free-access website of the manufacturer, importer or authorised representative, or the internet address for such a website, where full information on the control gear can be found 	N
3.(c)	Information to be visibly displayed on a free-access website of the manufacturer, importer or authorised representative	N
3.(c)(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
2	(a) the information specified in point 3(b)(2), except 3(b)(2)(h)	N
	(b) the outer dimensions in mm	N
7	(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
AC	(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
	(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
	(f) recommendations on how to dispose of it at	5



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Appendix tables

1. Initial Lumen Measurement and Color Performance:

Sample No.	Power Pon (W)	Disp. Factor	Luminou s Flux Ototal (lm)	Efficacy (lm/W)	Color Temp (CCT)	Color renderi ng (Ra)	R9	SDCM	X	у
1	3.50	0.99	676.48	193.28	5989	81.8	5	1.6	0.4282	0.4058
2	3.42	0.99	665.80	194.68	6012	83.3	6	1.8	0.4413	0.4115
3	3.46	0.99	676.29	195.46	6000	81.7	5	1.6	0.4325	0.4009
4	3.53	0.99	676.62	193.32	5988	81.8	5	1.4	0.433	0.4107
5	3.55	0.99	688.91	194.06	5996	81.4	5	1.6	0.4235	0.3989
6	3.43	0.99	661.61	192.89	6019	82	5	1.6	0.4256	0.4053
7	3.44	0.99	662.33	192.54	5967	83.1	4	1.4	0.4239	0.3981
8	3.48	0.99	668.54	192.11	6033	81.5	4	1.4	0.4282	0.3989
9	3.51	0.99	679.50	193.59	5988	83.8	5	1.7	0.4357	0.3969
10	3.48	0.99	673.31	193.48	6026	82.7	5	1.6	0.4247	0.4074
AVG.	3.48	0.99	672.93	193.54	6004	82.3	5	1.5	0.4297	0.4034

2. Different Mode Power 、 Flicker、 Stroboscopic Effect and Lumen Maintenance Test:

Sample No.	No Load Power Pno	Standby Power Psb	Network Sb. Power Pnet	Flicker Pst LM	Strobosc opic Effect SVM	Total Luminous flux (lm) After 3600h	Lumen Maintenance at 3600h (%)	Survival factor at 3600h
1	N/A	N/A	N/A	0.000	0.000	672.68	98.63%	Р
2	N/A	N/A	N/A	0.000	0.000	671.32	98.43%	Р
3	N/A	N/A	N/A	0.000	0.000	670.61	98.32%	Р
4	N/A	N/A	N/A	0.000	0.000	671.89	98.51%	Р
5	N/A	N/A	N/A	0.000	0.000	662.16	97.09%	Р
6	N/A	N/A	N/A	0.000	0.000	663.26	97.25%	Р
7	N/A	N/A	N/A	0.000	0.000	668.18	97.97%	Р
8	N/A	N/A	N/A	0.000	0.000	665.33	97.55%	Р
9	N/A	N/A	N/A	0.000	0.000	663.72	97.31%	Р
10	N/A	N/A	N/A	0.000	0.000	664.66	97.45%	Р
AVG.	N/A	N/A	N/A	0.000	0.000	667.38	97.85%	Р

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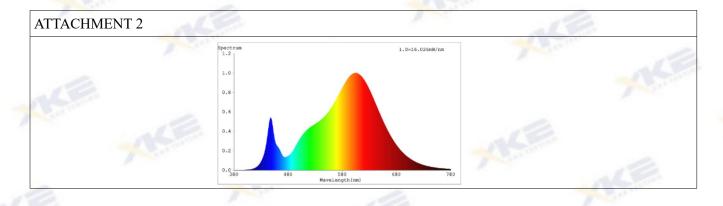
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Energy efficiency classes	1		
Standard	Clause	Model No.	Verdict
(EU) 2019/2015	Energy class	ML-G04	Р
Conditions	-Test conditions: -ambient: 25°C/65%R.H. -Test voltage: 5VDC	10	XXE
Фuse	667.38lm (Declared)	ten inter	
Pon	Pon = 3.5W (Declared)	- A Common	
Fтм	0.978		100
ηΤΜ	190.68lm/w (Declared)	3 7	A. C.
Technical requirements		Test result	
The state	Energy efficiency class	Total mains efficacy ηTM (lm/W)	
	A	$210 \le \eta TM$	N
$\eta_{\rm TM} = (\Phi_{\rm use}/P_{\rm on}) \times F_{\rm TM} (lm/W).$	В	$185 \le \eta TM \le 210$	Р
	С	$160 \le \eta TM < 185$	N
	D	$135 \le \eta TM < 160$	N
	Е	$110 \le \eta TM < 135$	N
	F	$85 \le \eta TM \le 110$	N
	G	ηTM < 85	N
Factors FTM by light source	ce type	6	1
Light source type	18	Factor FTM	
Non-directional (NDLS) of	perating on mains (MLS)	1.000	N
Non-directional (NDLS) no	ot operating on mains (NMLS)	0.978	Р
Directional (DLS) operatin	g on mains (MLS)	1.176	N
Directional (DLS) not oper	rating on mains (NMLS)	1.089	N



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