

**TEST REPORT****COMMISSION REGULATION (EU) 2019/2020 of 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 reference No...... : LCS220405047BS

Compiled by..... : Teresa Liu (Project Engineer)

Teresa Liu

Check by..... : Ian Luo (Director)

Ian Luo

Approved by..... : Jesse Liu (Manager)

Jesse Liu

Date of issue : April 18, 2023

Contents..... : 13 pages

Testing laboratory

Name : Shenzhen Southern LCS Compliance Testing Laboratory Ltd.

Address : 101-201, No.39 Buliding, Xialang Industrial Zone, Heshuikou
Community, Matian Street, Guangming District, Shenzhen, China

Testing location : KAILIN LIGHTING CO.,LTD.

Client

Name : KAILIN LIGHTING CO.,LTD.

Address..... : Foxin Industrial District,DaLang Twon,DongGuan
City,GuangDong ,523792,China.

Manufacturer

Name : KAILIN LIGHTING CO.,LTD.

Address..... : Foxin Industrial District,DaLang Twon,DongGuan
City,GuangDong ,523792,China.

Test specification

Standard..... : COMMISSION REGULATION (EU) 2019/2020
COMMISSION DELEGATED REGULATION (EU) 2019/2015
COMMISSION DELEGATED REGULATION (EU) 2021/340
COMMISSION DELEGATED REGULATION (EU) 2021/341

Test procedure : COMMISSION REGULATION (EU) 2019/2020
COMMISSION DELEGATED REGULATION (EU) 2019/2015
COMMISSION DELEGATED REGULATION (EU) 2021/340
COMMISSION DELEGATED REGULATION (EU) 2021/341

Non-standard test method N/A

TRF No. (EU) 2019/2020

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Test item Description	LED LIGHT BULB
Trademark	KL
Model and/or type reference.....	KLL760P-9D
Rating(s)(V/Hz/W).....	AC220-240V,50/60Hz,9W
Test case verdicts	
Test case does not apply to the test object	N(N/A)
Test item does meet the requirement	P(Pass)
Test item does not meet the requirement	F(Fail)
Testing	
Date of receipt of test item	November 14, 2022
Date(s) of performance of test.....	November 14, 2022 – April 13, 2023
Test item particulars:	
Type of light source:	
- Lighting technology used	<input type="checkbox"/> HL <input type="checkbox"/> LFLT5HE <input type="checkbox"/> LFL T5HO <input type="checkbox"/> CFLni <input type="checkbox"/> other FL <input type="checkbox"/> HPS <input type="checkbox"/> MH <input type="checkbox"/> other HID <input checked="" type="checkbox"/> LED <input type="checkbox"/> OLED <input type="checkbox"/> mixed <input type="checkbox"/> other
- Non-directional or directional	<input checked="" type="checkbox"/> NDLS <input type="checkbox"/> DLS
- Mains or non-mains	<input checked="" type="checkbox"/> MLS <input type="checkbox"/> NMLS
- Connected light source (CLS)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
- Colour-tuneable light source	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
- Envelope	<input checked="" type="checkbox"/> no <input type="checkbox"/> second <input type="checkbox"/> non-clear
- High luminance light source	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
- Anti-glare shield	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
- Dimmable	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> only with specific dimmers <input type="checkbox"/> No
- Control gear	<input checked="" type="checkbox"/> Integrated <input type="checkbox"/> External
- Use of light source:	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor <input type="checkbox"/> Industry
Lamp cap installed:	E27
General product parameters :	
Energy consumption in on-mode (kWh/1 000 h)	9
Energy efficiency class	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input checked="" type="checkbox"/> F <input type="checkbox"/> G
Rated useful luminous flux.....(lm):	810lm
Rated CCT(K):	2700K(Test the color temperature); 3000K;4000K;4500K;5000K;5500K;6500K
On-mode power (Pon), expressed in W.....:	9W

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Standby power (Psb).....(W): N/A

Networked standby power(Pnet)for CLS.(W): N/A

Rated Ra.....: 82

Outer dimensions.....(mm): N/A

Spectral power distribution.....: See attachment 2

Claim of equivalent power: ☐ Yes: ☒ N/A

Chromaticity coordinates (x and y).....: x:0.4630, y:0.4200

Peak luminous intensity(cd) : N/A

Beam angle in degrees.....(°): N/A

R9 colour rendering index valueR9.....: 2

Survival factor: 100%

The lumen maintenance factor.....: 95.8%

Displacement factor (cos ϕ 1).....: 0.9

Colour consistency in McAdam ellipses.....: 6

Claims that an LED light source replaces a
fluorescent light source without integrated
ballast of a particular wattage.....: ☐ Yes: ☒ N/A

Flicker metric (Pst LM): 1.0

Stroboscopic effect metric (SVM).....: 0.1

Rated life time(h): 25000h

Attachments:

The test report includes: ATTACHMENT 1(S) of Energy efficiency classes

The test report includes: ATTACHMENT 2(S) of Spectral power distribution

The test report includes: ATTACHMENT 3(S) of Photos

Summary of testing:

- 1、 These results are in compliance with the ecodesign requirements of the Commission Regulation (EU) 2019/2020.
- 2、 Measurement was conducted at voltage AC230V 50Hz and a stable ambient temperature $25 \pm 10^\circ\text{C}$.
- 3、 THDu $\leq 3\%$

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**Equipment List:**

Instrument	Equipment ID	Model	Calibration Date	Calibration Due Date
Full-field Speed Goniophotometer	SLCS-S-112	GO-R5000	2022/06/20	2023/06/19
Digital Power Meter	SLCS-S-103	PF2010	2022/06/20	2023/06/19
AC Testing Power Source	SLCS-S-115	DPS1060	2022/06/20	2023/06/19
Total Spectral Radiant Flux Standard Lamp	SLCS-S-143	D908S	2022/07/27	2023/07/26
2m Integrating Sphere System	SLCS-S-312	HAAS2000	2022/09/19	2023/09/18
Digital Power Meter	SLCS-S-309	PF9810	2022/09/19	2023/09/18
AC Testing Power Source	SLCS-S-310	DPS1005	2022/09/19	2023/09/18
Standard Lamp	SLCS-S-118	S11010017	2022/07/01	2023/06/30
Power Meter	SLCS-S-060	PF9800	2022/06/20	2023/06/19
Flicker Photometer	SLCS-S-119	FP-210	2022/06/20	2023/06/19

General remarks

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 Issuing testing laboratory.

"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

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(EU) 2019/2020

Clause	Requirement - Test	Result - Remark	Verdict
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Annex I (Clause)	Definitions in Regulation (EU) 2019/2020		P
	Number of sample used for test	10 pcs	P
(3)	Directional Light Source		N
	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 Φ_{use}		P
	for non-directional light sources it is the total flux emitted in a solid angle of 4π sr (corresponding to a 360° sphere)		P
	for directional light sources with beam angle $\geq 90^\circ$ it is the flux emitted in a solid angle of π sr (corresponding to a cone with angle of 120°)		N
	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 (EU) 2019/2020		P
1.(a)	Energy Efficiency Requirements – Light Source		P
	On-mode Power P_{on} (W):	$P_{on}=9.00$ W	P
	Maximum Allowed Power P_{onmax} (W): $P_{onmax} = C \times (L + \Phi_{use}/(F \times \eta)) \times R$	$P_{onmax}=9.02$ W	P
	Φ_{use} :	810lm	
	Threshold efficacy η (lm/W): η for LED:	120.0	P
	End loss factor L (W) depending on light source: L for LED: 1.5	1.5	P
	End loss factor L (W) for connected light sources: 2.0		N
	Efficacy Factor F: 1.00 for non-directional light sources (NDLS, using total flux)	1.00	P
	Efficacy Factor F: 0.85 for directional light sources (DLS, using flux in a cone)		N
	CRI Factor R: 0.65 for CRI ≤ 25		N
	CRI Factor R: (CRI+80)/160 for CRI > 25 , rounded to two decimals	$R=(82+80)/160=1.01$	P

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Clause	Requirement - Test	Result - Remark	Verdict
	Correction Factor C Depending on Light Source Characteristics in Table 2		N
	Non-directional (NDLS) not operating on mains (NMLS), Basic Value: 1.00		N
	Non-directional (NDLS) operating on mains (MLS), Basic Value: 1.08	1.08	P
	Directional (DLS) not operating on mains (NMLS), Basic Value: 1.15		N
	Directional (DLS) operating on mains (MLS), Basic Value: 1.23		N
	Special Light Source Bonus on C		N
1.(a)	Standby power – Light Source		N
	The standby power P_{sb} of a light source shall not exceed 0.5 W		N
	The networked standby power P_{net} of a connected light source shall not exceed 0.5 W		N
	The allowable values for P_{sb} and P_{net} shall not be added together		P
1.(b)	Energy Efficiency Requirements – Separate Control Gear (at full-load)		N
	Control gear for LED or OLED light sources: $P_{eg}^{0.81} / (1.09 \times P_{eg}^{0.81} + 2.10)$		N
	The no-load power P_{no} of a separate control gear shall not exceed 0.5 W		N
	The standby power P_{sb} of a separate control gear shall not exceed 0.5 W		N
	The networked standby power P_{net} of a connected separate control gear shall not exceed 0.5 W		N
	The allowable values for P_{sb} and P_{net} shall not be added together		N
2.	Functional Requirements – Light Source (Table 4)		P
	Colour Rendering Index CRI: ≥ 80	82.3	P
	Displacement Factor DF at Power Input P_{on} for LED and OLED MLS:		P
	No limit at $P_{on} \leq 5$ W DF ≥ 0.5 at 5 W $< P_{on} \leq 10$ W, DF ≥ 0.7 at 10 W $< P_{on} \leq 25$ W DF ≥ 0.9 at 25 W $< P_{on}$	0.903	P
	Lumen Maintenance Factor (for LED and OLED): $X_{LMF,MIN}\% = 100 \times e^{\frac{(3000 \times \ln(0.7))}{L_{70}}}$	96.20%	P
	Survival Factor (for LED and OLED): At least 9 light sources of the test sample must be	100%	P

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Clause	Requirement - Test	Result - Remark	Verdict
	operational after completing the test in Annex V of this Regulation.		
	Colour consistency for LED and OLED light sources: Variation of chromaticity coordinates within a six-step MacAdam ellipse or less.	2.1	P
	Flicker for LED and OLED MLS: $P_{st} LM \leq 1.0$ at full-load	0.186	P
	Stroboscopic effect for LED and OLED MLS: $SVM \leq 0.9$ at full-load	0.060	P
3.(a)	Information to be displayed on the light source itself		P
	Useful luminous flux (lm)	810lm	P
	Correlated colour temperature (K)	2700K	P
	Beam angle (°) For directional light sources		N
3.(b)	Information to be visibly displayed on the packaging		P
3.(b)(1)	Light source placed on the market, not in a containing product		P
	(a) Useful luminous flux (lm): - In a font at least twice as large as the display of the on-mode power (P_{on}) - Clearly indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)		P
	(b) Correlated Colour Temperature, rounded to the nearest 100 K		P
	(c) Beam angle in degrees For directional light sources		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)		P
	(e) L70B50 lifetime for LED and OLED light sources, expressed in hours		P
	(f) on-mode power (P_{on}), expressed in W		P
	(g) 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		N
	(h) networked standby power (P_{net}) for CLS, expressed in W and rounded to the second decimal. If the value is zero, it may be omitted from the packaging		N
	(i) Colour Rendering Index, rounded to the nearest integer		P
	(j) Clear indication to this effect, if $CRI < 80$, and		N

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Clause	Requirement - Test	Result - Remark	Verdict
	the light source is intended for use in outdoor applications, industrial applications or other applications where lighting standards allow a CRI< 80.		
	(k) Information on non-standard conditions (such as ambient temperature $T_a \neq 25^\circ \text{C}$ or specific thermal management is necessary)		N
	(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		P
	(m) if the light source contains mercury: a warning of this, including the mercury content in mg rounded to the first decimal place		P
	(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
3.(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
	(c) the efficiency in full-load, expressed in percentage		N
	(d) the no-load power (P_{no}), 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 (P_{sb}), 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

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(EU) 2019/2020

Clause	Requirement - Test	Result - Remark	Verdict
	(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
	(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
	(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
	(a) the information specified in point 3(b)(2), except 3(b)(2)(h)		N
	(b) the outer dimensions in mm		N
	(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
	(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		N

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Appendix-Test Data Sheet

1、Initial Lumen Measurement and Color Performance:

Sample No.	Power Pon (W)	Disp. Factor	Luminous Flux Φ_{total} (lm)	Efficacy (lm/W)	Color Temp (CCT)	Color rendering (Ra)	R9	SDCM	x	y
1	9.00	0.902	820.00	91.11	2730	82.1	2	2.1	0.4603	0.4153
2	8.87	0.905	822.54	92.73	2742	82.3	1	2.0	0.4602	0.4157
3	8.95	0.901	816.21	91.20	2727	82.0	4	2.1	0.4606	0.4152
4	9.03	0.903	834.83	92.45	2735	82.6	2	2.2	0.4603	0.4151
5	8.91	0.906	813.70	91.32	2748	82.2	5	2.0	0.4609	0.4154
6	8.83	0.902	827.42	93.71	2722	82.4	3	2.0	0.4604	0.4156
7	8.98	0.900	818.53	91.15	2753	82.1	1	2.1	0.4608	0.4153
8	8.85	0.903	820.19	92.68	2745	82.7	2	2.2	0.4603	0.4151
9	8.80	0.905	825.02	93.75	2738	81.9	4	2.0	0.4605	0.4156
10	9.04	0.901	833.84	92.24	2757	82.2	1	2.1	0.4602	0.4153
Avg.	8.93	0.903	823.23	92.23	2740	82.3	3	2.1	0.4605	0.4154

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

Sample No.	No-Load Power Pno	Standby Power P _{sb}	Network Sb. Power P _{net}	Flicker Pst LM	Stroboscopic Effect SVM	Total Luminous flux (lm) After 3600h	Lumen Maintenance at 3600h (%)	Survival factor at 3600h
1	N/A	N/A	N/A	0.186	0.059	788.18	96.12%	P
2	N/A	N/A	N/A	0.185	0.060	791.61	96.24%	P
3	N/A	N/A	N/A	0.187	0.059	785.11	96.19%	P
4	N/A	N/A	N/A	0.186	0.059	803.36	96.23%	P
5	N/A	N/A	N/A	0.186	0.058	782.05	96.11%	P
6	N/A	N/A	N/A	0.188	0.061	795.73	96.17%	P
7	N/A	N/A	N/A	0.185	0.058	787.84	96.25%	P
8	N/A	N/A	N/A	0.187	0.060	789.68	96.28%	P
9	N/A	N/A	N/A	0.186	0.059	793.92	96.23%	P
10	N/A	N/A	N/A	0.186	0.062	801.82	96.16%	P
Avg.	N/A	N/A	N/A	0.186	0.060	791.93	96.20%	P

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Tables

ATTACHMENT 1(S)

Energy efficiency classes			
Standard	Clause	Model No.	Verdict
(EU) 2019/2015	Energy class	KLL760P-9D	P
Conditions	-Test conditions: -ambient: 25°C/65%R.H. -Test voltage: AC230V		
Φ_{use}	810lm (Declared)		
P_{on}	$P_{\text{on}} = 9.00\text{W}$ (Declared)		
F_{TM}	1.000		
η_{TM}	90.00 lm/w (Declared)		
Technical requirements		Test result	
$\eta_{\text{TM}} = (\Phi_{\text{use}}/P_{\text{on}}) \times F_{\text{TM}} \text{ (lm/W)}$	Energy efficiency class	Total mains efficacy η_{TM} (lm/W)	--
	A	$210 \leq \eta_{\text{TM}}$	N
	B	$185 \leq \eta_{\text{TM}} < 210$	N
	C	$160 \leq \eta_{\text{TM}} < 185$	N
	D	$135 \leq \eta_{\text{TM}} < 160$	N
	E	$110 \leq \eta_{\text{TM}} < 135$	N
	F	$85 \leq \eta_{\text{TM}} < 110$	P
	G	$\eta_{\text{TM}} < 85$	N
Factors F _{TM} by light source type			
Light source type		Factor F _{TM}	--
Non-directional (NDLS) operating on mains (MLS)		1.000	P
Non-directional (NDLS) not operating on mains (NMLS)		0.926	N
Directional (DLS) operating on mains (MLS)		1.176	N
Directional (DLS) not operating on mains (NMLS)		1.089	N

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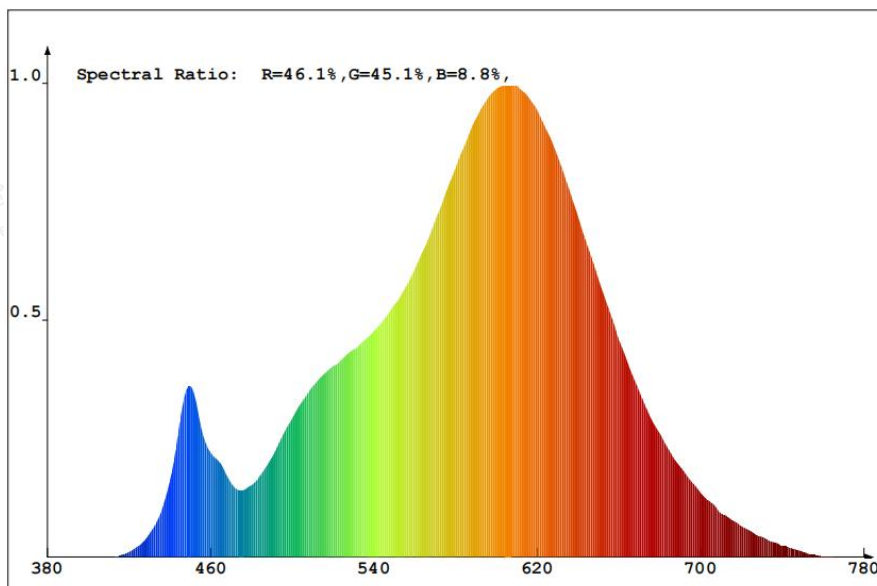
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ATTACHMENT 2(S)

Spectral power distribution



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ATTACHMENT 3(S)

Photos of KLL760P-9D



----- End of test report -----

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