

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..... : LCS211126047BS Tested by..... Teresa Liu((Project Engineer) Teresa <u>Li</u>i Check by..... Ian Luo (Director) Approved by...... Jesse Liu (Manager) 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 Dongguan Ruizi Technology Co.,Ltd Client Dongguan Ruizi Technology Co., Ltd Name Address.....: Floor 7-10, Building S7, Fenggang Tian'an Digital City, 208 Fenggang Section, Dongshen Road, Fenggang Town, Dongguan City, Guangdong Province, China Manufacturer Name Dongguan Ruizi Technology Co.,Ltd Address.....: Floor 7-10, Building S7, Fenggang Tian'an Digital City, 208 Fenggang Section, Dongshen Road, Fenggang Town, Dongguan City, Guangdong Province, 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 methodN/A TRF No. (EU) 2019/2020 Shenzhen Southern LCS Compliance Testing Laboratory Ltd. Add: 101-201, No.39 Buliding, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming



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CS16 NST CS16	NSA (CSTEPT
Test item Description	LED Tri-proof Light
Trademark	ERVAN
Model and/or type reference	TP01XX-XX-40-1500X-40H
Rating(s)(V/Hz/W)	DC103V,36W
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	St. csTestingLau
Date of receipt of test item:	December 24, 2021
Date(s) of performance of test	December 27, 2021 - May 26, 2022
Test item particulars:	
Type of light source:	
- Lighting technology used	HL LFLT5HE LFL T5HO CFLni other FL HPS MH other HID LED OLED mixed other
- Non-directional or directional	⊠ NDLS □ DLS
- Mains or non-mains	\square MLS \square NMLS
- Connected light source (CLS)	\Box Yes \boxtimes No
- Colour-tuneable light source	\Box Yes \boxtimes No
- Envelope	\square no \square second \square non-clear
- High luminance light source	\Box Yes \boxtimes No
- Anti-glare shield	\Box Yes \boxtimes No
- Dimmable	\Box Yes \Box only with specific dimmers \boxtimes No
- Control gear	Integrated External
- Use of light source:	Indoor
Lamp cap installed:	N/A
General product parameters :	34 rea.
Energy consumption in on-mode (kWh/1 000 h)	36
Energy efficiency class	$\Box A \boxtimes B \Box C \Box D \Box E \Box F \Box G$
Rated useful luminous flux(lm):	7200lm
Rated CCT(K)	4000K
On-mode power (Pon), expressed in W	36W
Standby power (Psb) (W).	N/A

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Networked standbypower(Pnet)for	r CLS.(W): N/A			
Rated Ra				
Outer dimensions	(mm): N/A			
Spectral power distribution	: See ?	attachment 2		
Claim of equivalent power	: 🗆 Ye	es: 🛛 N/A		
Chromaticity coordinates (x and y) x:0.3	800, y:0.3800		
Peak luminous intensity	(cd) : N/A			
Beam angle in degrees	(°): N/A			14 1111 股份
R9 colour rendering index valueR	9 0			I in Testing Lab
Survival factor		<u>́о</u>		LUS
The lumen maintenance factor				
Displacement factor (cos ϕ 1)	: N/A			
Colour consistency in McAdam el	lipses: 5			
Claims that an LED light sour	ce replaces a			
fluorescent light source witho	ut integrated			
ballast of a particular wattage		es: 🛛 N/A		
Flicker metric (Pst LM)				
Stroboscopic effect metric (SVM)	: N/A			立讯检测
Rated life time	(h): 5000	10h 51	STesting	ST LCS Test
Attachments:				
The test report includes: ATTACH	MENT 1(S) of Ener	gy efficiency class	ses	
The test report includes: ATTACH	MENT 2(S) of Spec	tral power distribu	ition	
The test report includes: ATTACH	MENT 3(S) of Phot	OS		
Summary of testing:				
1、 These results are in compliant 2019/2020.	e with the ecodesign	1 requirements of t	the Commission Reg	ulation (EU)
2. Measurement was conducted3. THDu 3%	at voltage DC103V a	and a stable ambier	nt temperature 25 ± 1	0°C.

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Equipment List:

Instrument	Equipment ID	Model	Calibration Date	Calibration Due Date
Full-field Speed Goniophotometer	SLCS-S-112	GO-R5000	2021/06/21	2022/06/20
Digital Power Meter	SLCS-S-103	PF2010	2021/06/21	2022/06/20
AC Testing Power Source	SLCS-S-115	DPS1060	2021/06/21	2022/06/20
Total Spectral Radiant Flux Standard Lamp	SLCS-S-143	D908S	2021/07/28	2022/07/27
2m Integrating Sphere System	SLCS-S-038	SPR-3000	2021/06/21	2022/06/20
Digital Power Meter	SLCS-S-058	WT310	2021/06/21	2022/06/20
AC Testing Power Source	SLCS-S-111	APW-105N	2021/06/21	2022/06/20
Standard Lamp	SLCS-S-118	S11010017	2021/07/01	2022/06/30
Power Meter	SLCS-S-060	PF9800	2021/06/21	2022/06/20
Flicker Photometer	SLCS-S-119	FP-210	2021/06/21	2022/06/20

General remarks

The test results presented in this report relate only to the object tested.

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"(see Enclosure #)" refers to additioal 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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Clause

Requirement - Test

Result - Remark

Verdict

Annex I (Clause)	Definitions in Regulation (EU) 2019/2020							
	Number of sample used for test	10 pcs	Р					
(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 Øuse	ń	P					
E	for non-directional light sources it is the total flux emitted in a solid angle of 4π sr (corresponding to a 360° sphere)	b LCS Tes	Ing La'P					
	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°)		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 (E	U) 2019/2020	Р					
1.(a)	Energy Efficiency Requirements – Light Source							
trinter ming	On-mode Power Pon (W):	Pon=36.00 W	P					
LCSTON	Maximum Allowed Power Ponmax (W): Ponmax = C x (L + Φ use/(F x η)) x R	Ponmax=61.50W	Р					
	Φuse:	7200lm						
	Threshold efficacy η (lm/W): η for LED:	120.0	Р					
	End loss factor L (W) depending on light source: L for LED: 1.5	1.5	Р					
	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 版例 ^{AD}					
	Efficacy Factor F: 0.85 for directional light sources (DLS, using flux in a cone)	Los Is	N					
	CRI Factor R:0.65 for CRI ≤ 25		N					
	CRI Factor R: (CRI+80)/160 for CRI > 25, rounded to two decimals	R=(80+80)/160=1	Р					

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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	1.00	Р
	Non-directional (NDLS) operating on mains (MLS), Basic Value: 1.08		N
	Directional (DLS) not operating on mains (NMLS), Basic Value: 1.15		N
	Directional (DLS) operating on mains (MLS), Basic Value: 1.23	1 立讯检测	N Ing Lab
	Special Light Source Bonus on C	SG LCS TO	N
1.(a)	Standby power – Light Source		N
	The standby power Psb of a light source shall not exceed 0.5 W		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		Р
1.(b)	Energy Efficiency Requirements – Separate Contr	ol Gear (at full-load)	N
市訊检测服	Control gear for LED or OLED light sources: $P_{eg}^{0.81}/(1.09 \times P_{eg}^{0.81} + 2.10)$	古 在闲检测股份	N
LCS Testino	The no-load power Pno of a separate control gear shall not exceed 0.5 W	ST LOS TOSTI	N
	The standby power Psb of a separate control gear shall not exceed 0.5 W		N
	The networked standby power Pnet of a connected separate control gear shall not exceed 0.5 W		N
	The allowable values for Psb and Pnet shall not be added together		N
2.	Functional Requirements – Light Source (Table 4)		Р
	Colour Rendering Index CRI: ≥80	80.3	Р
	Displacement Factor DF at Power Input Pon for LED	and OLED MLS:	P
E	No limit at Pon ≤ 5 W DF ≥ 0.5 at 5 W < Pon ≤ 10 W, DF ≥ 0.7 at 10 W < Pon ≤ 25 W DF ≥ 0.9 at 25 W < Pon	LCS Test	N
	Lumen Maintenance Factor (for LED and OLED): $X_{LMF,MIN} \approx 100 \times e \frac{(3000 \times \ln(0.7))}{L_{70}}$	96.28%	Р
	Survival Factor (for LED and OLED): At least 9 light sources of the test sample must be	100%	Р

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NTVI-	(EU) 2019/2020		Mar Testing
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.	0.6	Р
	Flicker for LED and OLED MLS: Pst LM \leq 1.0 at full-load		N
	Stroboscopic effect for LED and OLED MLS: SVM ≤ 0.9 at full-load	3	N
3.(a)	Information to be displayed on the light source it	self	HALL NO LOP
P	Useful luminous flux (lm)	7200lm	Р
	Correlated colour temperature (K)	4000K	Р
	Beam angle (°) For directional light sources		N
3.(b)	Information to be visibly displayed on the packag	ging	Р
3.(b)(1)	Light source placed on the market, not in a conta	ining product	Р
立讯检测服	 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°) 	立讯检测展份	L L L L L L L L L L L L L L L L L L L
Los	(b) Correlated Colour Temperature, rounded to the nearest 100 K		Р
	(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)		Р
	(e) L70B50 lifetime for LED and OLED light sources, expressed in hours		Р
	(f) on-mode power (Pon), expressed in W	4	P
E	(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		RANDON LAN CS Testing La 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		N
	(i) Colour Rendering Index, rounded to the nearest		Р
	integer		

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Lift Mung	(EU) 2019/2020	IL HALLAD Lab	其消 和2
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 Ta $\neq 25$ ° C or specific thermal management is necessary)		N
E	 (1) 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 	t ib LCS Test	P Ing Lab
	(m) if the light source contains mercury: a warning of this, including the mercury content in mg rounded to the first decimal place		Р
田检测服	(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	古讯检测服份	P
3.(b)(2)	Separate control gears For separate control gear placed on the market as a s a containing product	tand-alone product, not as a part of	CNTest
	(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	1	N M
E	(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	b 上CS Test	ing LaN
	(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		N

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TLift the sing	(EU) 2019/2020	TIT HE MEN Lab	- 七讯 机
Clause	Requirement - Test	Result - Remark	Verdict
	(f) the networked standby power (Pnet), expressed		N
	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		
	(g) a warning if the control gear is not suitable for		N
	dimming of light sources or can be used only with		
	specific types of dimmable light sources or using	5	- 113
	specific wired or wireless dimming methods. In the	p b	BE m
	latter cases, detailed information on the conditions	I II WILL	ing Lan
	in which the control gear can be used for dimming	LCS .	
	shall be provided on the manufacturer's or		
	importer's website		
	(h) a QR-code redirecting to a free-access website		N
	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		
3.(c)	Information to be visibly displayed on a free-acce	ss website of the manufacturer,	N
• () (1)	importer or authorised representative		
3.(c)(1)	Separate control gears For any separate control gear	that is placed on the EU market, the	N
Tillesting	following information shall be displayed on at least of	one free-access website:	古过州加
	(a) the information specified in point 3(b)(2),	ST LOS IN	LCN V
	except 3(b)(2)(h)		
	(b) the outer dimensions in mm		N
	(c) the mass in grams of the control gear, without		N
	packaging, and without lighting control parts and		
	non-lighting parts, if any and if they can be		
	physically separated from the control gear		
	(d) instructions on how to remove lighting control		N
	parts and non-lighting parts, if any, or how to		
	switch them off or minimise their power		
	consumption during control-gear testing for market	E.	股份
	surveillance purposes	加加市	ing Lab
1SI	(e) if the control gear can be used with dimmable	Les Les les	N
	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		
	(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 Ф total (lm)	Efficacy (lm/W)	Color Temp (CCT)	Color rendering (Ra)	R9	SDCM	х	у
1	37.44	N/A	7183.69	191.87	4019	80.1	-8	0.4	0.3806	0.3799
2	37.10	N/A	7141.50	192.49	4030	80.2	-6	0.6	0.3808	0.3800
3	37.35	N/A	7202.26	192.83	4014	80.4	-9	0.3	0.3805	0.3798
4	37.29	N/A	7223.98	193.72	4022	80.1	-7	0.5	0.3807	0.3801
5	37.16	N/A	7159.41	192.66	4045	80.3	-8	0.8	0.3810	0.3799
6	37.40	N/A	7176.73	191.89	4018	80.5	-5	0.4	0.3806	0.3798
7	37.31	N/A	7218.50	193.47	4036	80.2	-9	0.6	0.3808	0.3800
8	37.27	N/A	7227.19	193.91	4010	80.4	-8	0.9	0.3811	0.3801
9	37.13	N/A	7189.85	193.64	4027	80.3	-6	0.5	0.3807	0.3799
10	37.24	N/A	7170.61	192.55	4043	80.1	-9	0.7	0.3809	0.3803
Avg.	37.27	N/A	7189.37	192.91	4026	80.3	-8	0.6	0.3808	0.3800



Sample No.	No-Load Power Pno	Standby Power Psb	Network Sb. Power Pnet	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	N/A	N/A	6912.15	96.22%	Р
2	N/A	N/A	N/A	N/A	N/A	6878.69	96.32%	Р
3	N/A	N/A	N/A	N/A	N/A	6933.62	96.27%	Р
4	N/A	N/A	N/A	N/A	N/A	6957.42	96.31%	Р
5	N/A	份 N/A	N/A	N/A	N/A	6887.35	96.20%	RE (PP
6	N/A	N/A	N/A	N/A	N/A	6907.60	96.25%	ting Lab
7	N/A	N/A	N/A	N/A	N/A	6954.30	96.34%	Р
8	N/A	N/A	N/A	N/A	N/A	6964.12	96.36%	Р
9	N/A	N/A	N/A	N/A	N/A	6925.98	96.33%	Р
10	N/A	N/A	N/A	N/A	N/A	6901.00	96.24%	Р
Avg.	N/A	N/A	N/A	N/A	N/A	6922.22	96.28%	Р

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ATTACHMENT 1(S)

Energy efficiency classes								
Standard	Clau	use Model No.			Verdict			
(EU) 2019/2015	Ener	gy class TP	01XX-X	Х-40-1500Х-40Н	Р			
Conditions	-Test -amb -Test	t conditions: bient: <u>25</u> °C/ <u>65</u> %R. t voltage: DC103V	.H. /		- 112			
Φuse	7200	Olm (Declared)						
Pon LOS TESTIN	Pon	=36.00W (Declar	red)	St IC	STesting			
F _{TM}	0.92	6						
η _{тМ}	185.	185.20 lm/w (Declared)						
Technical requirements		Test result						
	Energy efficienc	ey class	Total mains efficacy η _{TM} (lm/W)					
$\eta_{TM} = (\Phi_{use}/P_{on}) \times F_{TM} (lm/W).$		А		$210 \leqslant \eta_{\mathrm{TM}}$	N			
		B		$185 \leqslant \eta_{TM} < 210$	Р			
		C		$160 \leq \eta_{\mathrm{TM}} < 185$	N			
	D D			$135 \leq \eta_{TM} < 160$	N STestin			
	Lie	Е		$110 \leq \eta_{TM} < 135$	N			
		F		85 ≤ η _™ <110	N			
		G		$\eta_{TM} < 85$	N			
Factors FTM by light source	type							
Light source type			Factor F _{TM}					
Non-directional (NDLS) oper	rating	g on mains (MLS)		1.000	N			
Non-directional (NDLS) not	opera	ating on mains (NI	MLS)	0.926	Р			
Directional (DLS) operating of	on ma	ains (MLS)	上讯检了	1.176	N			
Directional (DLS) not operati	ing oi	n mains (NMLS)	LCSTES	1.089	e Testing N			

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ATTACHMENT 2(S)



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

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