

**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..... : LCS210520022ES
Tested by..... : Laola Li (Project Engineer)
Check by..... : Leo Qiu (Director)
Approved by..... : Adam Peng (Manager)
Date of issue : November 10, 2021
Contents..... : 18 pages

**Testing laboratory**

Name : Ningbo LCS Standard Technology Service Co., Ltd.
Address : 101-106, 202-206, Building 037, No. 166, Jinghua Road, Meixu Street, Ningbo High-tech Zone, Yinzhou District, Ningbo City, Zhejiang Province, China
Testing location : As above

Client

Name : Ningbo IMEX Lighting Co., Ltd.
Address..... : No.228, Jianghu Road, Jiangbei, Ningbo, P.R. China

Manufacturer

Name : Ningbo IMEX Lighting Co., Ltd.
Address..... : No.228, Jianghu Road, Jiangbei, Ningbo, P.R. China

Test specification

Standard..... : COMMISSION REGULATION (EU) 2019/2020 of 1 October 2019
 COMMISSION DELEGATED REGULATION (EU) 2019/2015
 COMMISSION DELEGATED REGULATION (EU) 2021/340
 COMMISSION REGULATION (EU) 2021/341

Test procedure : COMMISSION REGULATION (EU) 2019/2020 of 1 October 2019
 COMMISSION DELEGATED REGULATION (EU) 2019/2015
 COMMISSION DELEGATED REGULATION (EU) 2021/340
 COMMISSION REGULATION (EU) 2021/341

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

**TRF No. (EU) 2019/2020**

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Test item Description	LED Lamp			
Trademark	N/A			
Model and/or type reference.....	3SDGU10-6			
Rating(s)(V/Hz).....	See page 3			
Test case verdicts				
Test case does not apply to the test object : N(N/A)				
Test item does meet the requirement				
Test item does not meet the requirement ...: F(Fail)				
Testing				
Date of receipt of test item				
Date(s) of performance of test.....				
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 type="checkbox"/> NDLS	<input checked="" type="checkbox"/> DLS		
- Mains or non-mains	<input type="checkbox"/> NMLS	<input checked="" type="checkbox"/> MLS		
- Connected light source (CLS)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
- Colour-tuneable light source	<input checked="" type="checkbox"/> Yes	<input 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:	N/A			
General product parameters :				
Energy consumption in on-mode (kWh/1000 h)	6			
Energy efficiency class	<input type="checkbox"/> A	<input type="checkbox"/> B	<input type="checkbox"/> C	<input type="checkbox"/> D
	<input type="checkbox"/> E	<input type="checkbox"/> F	<input checked="" type="checkbox"/> G	
Rated useful luminous flux.....(lm):	See page 3			
Rated total luminous flux.....(lm):	See page 3			
Rated CCT	See page 3			
On-mode power (Pon), expressed in W.....	See page 3			
Standby power (Psb).....(W):	N/A			

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Networked standby power (P_{net}) for CLS.(W): N/A

Rated Ra.....: 80

Outer dimensions.....(mm): ϕ 50x55

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

Claim of equivalent power: Yes: N/A

Chromaticity coordinates (x and y).....: 2000K, 0.5230, 0.4201; 2550K, 0.4653, 0.4067;
2700K, 0.4485, 0.4037

Peak luminous intensity(cd) : 1.5w: 229; 3.6w: 290; 6w: 353

Beam angle in degrees.....($^{\circ}$) : See Appendix test data sheet

R9 colour rendering index value R_9: See Appendix test data sheet

Survival factor: $\geq 90\%$

The lumen maintenance factor.....: $\geq 94.8\%$

Displacement factor ($\cos \phi$).....: ≥ 0.5

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).....: ≤ 0.9

Rated life time(h): 20000

Attachments:

The test report includes: ATTACHMENT 3(S) of product 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 230V 50Hz and a stable ambient temperature $25 \pm 10^{\circ}\text{C}$.
- 3、 $\text{THD} \leq 3\%$.

General Product Information

model No	Rated input	Rated Φ_{total}	Rated Φ_{use}	Rated P_{on}	Rated CCT	Rated Beam angle
3SDGU 10-6	230VAC, 50Hz	112.5 lm	90 lm	1.5w	2000K	38
		270 lm	210 lm	3.6w	2550K	55
		450 lm	350 lm	6.0w	2700K	60

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**Equipment List:**

Instrument	Equipment ID	Model	Calibration Date	Calibration Due Date
Full-field Speed Goniophotometer	NLCS-S-124	GMS-1800B	2021/5/31	2022/5/30
Digital Power Meter	NLCS-S-006	PF9800	2021/5/31	2022/5/30
AC Testing Power Source	NLCS-S-125	APW-110N	2021/5/31	2022/5/30
Total Spectral Radiant Flux Standard Lamp	NLCS-S-126	BD220V	2021/6/21	2022/6/20
2m Integrating Sphere System	NLCS-S-120	SL-300	2021/5/31	2022/5/30
Digital Power Meter	NLCS-S-122	UI2012	2021/5/31	2022/5/30
AC Testing Power Source	NLCS-S-121	BP6005	2021/5/31	2022/5/30
Standard Lamp	NLCS-S-123	110V/300W	2021/6/21	2022/6/20
Temperature and humidity meter	NLCS-S-076	HTC-1	2021/05/27	2022/05/26
Flicker Photometer	NLCS-S-127	FK-3000	2021/5/31	2022/5/30

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.



(EU) 2019/2020			
Clause	Requirement - Test	Result - Remark	Verdict
Annex I (Clause)	Definitions in Regulation (EU) 2019/2020		P
	Number of sample used for test	10 pcs	P
(3)	Directional Light Source		P
	at least 80 % of total luminous flux within a solid angle of π sr (corresponding to a cone with angle of 120°)		P
(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)		N/A
	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/A
	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°)		P
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):	$P_{on}=6$ W	P
	Maximum Allowed Power P_{onmax} (W): $P_{onmax} = C \times (L + \Phi_{use}/(F \times \eta)) \times R$	$P_{onmax}=1.33 \times (1.5+350/(0.85 \times 120)) \times 1.00 = 6.56$ W	P
	Φ_{use} :	350lm	P
	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/A
	Efficacy Factor F: 1.00 for non-directional light sources (NDLS, using total flux)		N/A
	Efficacy Factor F: 0.85 for directional light sources (DLS, using flux in a cone)	0.85	P
	CRI Factor R: 0.65 for $CRI \leq 25$		N/A
	CRI Factor R: (CRI+80)/160 for $CRI > 25$, rounded to two decimals	$R=(80+80)/160=1.00$	P
	Correction Factor C Depending on Light Source Characteristics in Table 2		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	Non-directional (NDLS) not operating on mains (NMLS), Basic Value: 1.00		N/A
	Non-directional (NDLS) operating on mains (MLS), Basic Value: 1.08		N/A
	Directional (DLS) not operating on mains (NMLS), Basic Value: 1.15		N/A
	Directional (DLS) operating on mains (MLS), Basic Value: 1.23	1.23	P
	Special Light Source Bonus on C	0.1	P
1.(a)	Standby power – Light Source		N/A
	The standby power P_{sb} of a light source shall not exceed 0.5 W		N/A
	The networked standby power P_{net} of a connected light source shall not exceed 0.5 W		N/A
	The allowable values for P_{sb} and P_{net} shall not be added together		N/A
1.(b)	Energy Efficiency Requirements – Separate Control Gear (at full-load)		N/A
	Control gear for LED or OLED light sources: $P_{cg}^{0.81} / (1.09 \times P_{cg}^{0.81} + 2.10)$		N/A
	The no-load power P_{no} of a separate control gear shall not exceed 0.5 W		N/A
	The standby power P_{sb} of a separate control gear shall not exceed 0.5 W		N/A
	The networked standby power P_{net} of a connected separate control gear shall not exceed 0.5 W		N/A
	The allowable values for P_{sb} and P_{net} shall not be added together		N/A
2.	Functional Requirements – Light Source (Table 4)		P
	Colour Rendering Index CRI: ≥ 80	81.7	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 $< P_{on}$	0.989	P
	Lumen Maintenance Factor (for LED and OLED): $X_{LMF,MIN}\% = 100 \times e^{\frac{(3000 \times \ln(0.7))}{L_{70}}}$	95.21%	P
	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.	100%	P
	Colour consistency for LED and OLED light	5.1	P

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(EU) 2019/2020			
Clause	Requirement - Test	Result - Remark	Verdict
	sources: Variation of chromaticity coordinates within a six-step MacAdam ellipse or less.		
	Flicker for LED and OLED MLS: $P_{st} LM \leq 1.0$ at full-load	0.022	P
	Stroboscopic effect for LED and OLED MLS: $SVM \leq 0.9$ at full-load	0.049	P
3.(a)	Information to be displayed on the light source itself		N/A
	Useful luminous flux (lm)		N/A
	Correlated colour temperature (K)		N/A
	Beam angle (°) For directional light sources		N/A
3.(b)	Information to be visibly displayed on the packaging		N/A
3.(b)(1)	Light source placed on the market, not in a containing product		N/A
	(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°)		N/A
	(b) Correlated Colour Temperature, rounded to the nearest 100 K		N/A
	(c) Beam angle in degrees For directional light sources		N/A
	(d) electrical interface details, e.g. cap- or connector-type, type of power supply (e.g. 230 V AC 50 Hz, 12 V DC)		N/A
	(e) L70B50 lifetime for LED and OLED light sources, expressed in hours		N/A
	(f) on-mode power (P_{on}), expressed in W		N/A
	(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/A
	(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/A
	(i) Colour Rendering Index, rounded to the nearest integer		N/A
	(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 $CRI < 80$.		N/A
	(k) Information on non-standard conditions (such		N/A

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(EU) 2019/2020			
Clause	Requirement - Test	Result - Remark	Verdict
	as ambient temperature $T_a \neq 25^\circ \text{C}$ or specific thermal management is necessary)		
	(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		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
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
	(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
	(c) the efficiency in full-load, expressed in percentage		N/A
	(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/A
	(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/A
	(f) the networked standby power (P_{net}), 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
	(g) a warning if the control gear is not suitable for		N/A

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(EU) 2019/2020			
Clause	Requirement - Test	Result - Remark	Verdict
	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		
	(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/A
3.(c)	Information to be visibly displayed on a free-access website of the manufacturer, importer or authorised representative		N/A
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
	(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		N/A

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**Appendix-Test Data Sheet****1. Initial Lumen Measurement and Energy Efficiency:**

6W

Sample No.	Power Pon (W)	Disp. Factor	Luminous Flux Φ_{total} (lm)	Luminous Flux Φ_{use} (lm)	Efficacy (lm/W)	Beam angle (°)
1	5.9	0.987	457.03	349.62	77.38	68.8
2	6.1	0.988	456.29	349.06	75.10	68.9
3	6.0	0.985	454.96	348.04	75.75	69.1
4	6.1	0.987	453.39	346.84	74.01	68.7
5	6.1	0.989	455.94	348.79	74.55	68.9
6	5.9	0.990	454.49	347.68	76.95	69.0
7	5.8	0.990	455.62	348.55	78.61	68.7
8	6.1	0.992	455.98	348.82	74.92	69.2
9	6.1	0.989	455.37	348.35	75.19	69.3
10	5.9	0.991	456.98	349.59	77.11	68.9
Avg.	6.0	0.989	455.60	348.53	75.96	68.9

3.6W

Sample No.	Power Pon (W)	Disp. Factor	Luminous Flux Φ_{total} (lm)	Luminous Flux Φ_{use} (lm)	Efficacy (lm/W)	Beam angle (°)
1	3.7	0.981	278.33	215.71	75.80	66.0
2	3.9	0.982	277.59	215.13	71.69	65.9
3	3.8	0.987	276.26	214.10	73.04	65.4
4	3.7	0.985	274.69	212.88	74.00	65.9
5	3.9	0.983	277.24	214.86	71.79	66.1
6	3.8	0.984	275.79	213.74	72.73	66.2
7	3.9	0.984	276.92	214.61	70.25	65.9
8	3.8	0.982	277.28	214.89	72.55	65.9
9	3.8	0.983	276.67	214.42	72.77	65.5
10	3.7	0.983	278.28	215.67	74.37	66.1
Avg.	3.8	0.983	276.90	214.60	72.90	65.9

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1.5W

Sample No.	Power Pon (W)	Disp. Factor	Luminous Flux Φ_{total} (lm)	Luminous Flux Φ_{use} (lm)	Efficacy (lm/W)	Beam angle (°)
1	1.3	0.972	114.53	97.35	90.18	36.7
2	1.5	0.976	113.79	96.72	75.86	36.6
3	1.3	0.973	112.46	95.59	85.19	36.7
4	1.4	0.982	110.89	94.26	77.54	37.1
5	1.5	0.974	113.44	96.42	73.66	36.8
6	1.3	0.977	111.99	95.19	84.20	36.9
7	1.5	0.975	113.12	96.15	76.43	37.2
8	1.4	0.983	113.48	96.46	83.44	37.3
9	1.4	0.974	112.87	95.94	79.48	36.4
10	1.4	0.980	114.48	97.31	84.80	36.8
Avg.	1.4	0.977	113.10	96.14	81.08	36.8

2. Color Measurement:

6W

Sample No.	Color Temp (CCT)	Color rendering (Ra)	R9	SDCM	X	Y
1	2810	82.1	4	5.0	0.4489	0.4038
2	2814	81.7	7	5.3	0.4486	0.4034
3	2811	81.8	8	5.0	0.4485	0.4036
4	2812	81.8	4	5.3	0.4484	0.4038
5	2811	82.3	5	5.1	0.4486	0.4039
6	2810	81.4	3	5.1	0.4483	0.4035
7	2814	81.8	6	5.0	0.4482	0.4037
8	2810	81.9	8	5.3	0.4485	0.4038
9	2816	81.1	7	5.1	0.4488	0.4037
10	2813	81.4	6	4.9	0.4483	0.4034
Avg.	2812	81.7	6	5.1	0.4485	0.4037

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3.6W

Sample No.	Color Temp (CCT)	Color rendering (Ra)	R9	SDCM	X	Y
1	2597	83.6	17	2.7	0.4660	0.4068
2	2597	82.9	12	2.2	0.4652	0.4064
3	2598	83.0	13	2.0	0.4654	0.4064
4	2591	83.3	18	2.6	0.4650	0.4066
5	2598	83.5	13	2.0	0.4652	0.4069
6	2597	82.6	15	2.4	0.4653	0.4063
7	2601	83.0	11	2.1	0.4648	0.4067
8	2597	83.1	16	2.2	0.4651	0.4072
9	2596	83.0	12	2.0	0.4659	0.4065
10	2591	83.5	14	2.5	0.4654	0.4070
Avg.	2596	83.1	14	2.3	0.4653	0.4067

1.5W

Sample No.	Color Temp (CCT)	Color rendering (Ra)	R9	SDCM	X	Y
1	2073	84.8	18	0.9	0.5239	0.4202
2	2073	84.7	22	1.7	0.5231	0.4203
3	2074	84.2	23	1.5	0.5228	0.4198
4	2072	84.5	19	1.4	0.5229	0.4200
5	2074	85.0	20	1.5	0.5231	0.4206
6	2073	83.8	17	1.4	0.5226	0.4197
7	2077	84.2	21	1.6	0.5227	0.4201
8	2079	84.8	21	1.7	0.5230	0.4206
9	2080	84.2	22	1.5	0.5231	0.4196
10	2067	84.7	20	1.1	0.5228	0.4204
Avg.	2074	84.5	20	1.4	0.5230	0.4201

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**3. 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	0.026	0.050	435.18	95.22%	P
2	N/A	N/A	N/A	0.020	0.047	434.75	95.28%	P
3	N/A	N/A	N/A	0.025	0.047	433.30	95.24%	P
4	N/A	N/A	N/A	0.020	0.051	431.85	95.25%	P
5	N/A	N/A	N/A	0.021	0.052	434.10	95.21%	P
6	N/A	N/A	N/A	0.024	0.050	432.36	95.13%	P
7	N/A	N/A	N/A	0.018	0.053	433.75	95.20%	P
8	N/A	N/A	N/A	0.025	0.049	434.00	95.18%	P
9	N/A	N/A	N/A	0.021	0.047	433.65	95.23%	P
10	N/A	N/A	N/A	0.019	0.046	434.82	95.15%	P
Avg.	N/A	N/A	N/A	0.022	0.049	433.78	95.21%	P

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ATTACHMENT 1(S)

Energy efficiency classes				
Standard	Clause	Model No.	Verdict	
(EU) 2019/2015	Energy class	3SDGU10-6	P	
Conditions	-Test conditions: -ambition: 25°C/65%R.H. -Test voltage:230V			
Φ _{use}	350 lm			
P _{on}	Pon = 6W			
F _{TM}	1.176			
Technical requirements		Test result		
$\eta_{TM} = (\Phi_{use}/P_{on}) \times F_{TM} (lm/W).$		Energy efficiency class	Total mains efficacy η_{TM} (lm/W)	
			--	
		A	$210 \leq \eta_{TM}$	N/A
		B	$185 \leq \eta_{TM} < 210$	N/A
		C	$160 \leq \eta_{TM} < 185$	N/A
		D	$135 \leq \eta_{TM} < 160$	N/A
		E	$110 \leq \eta_{TM} < 135$	N/A
		F	$85 \leq \eta_{TM} < 110$	N/A
	G	$\eta_{TM} < 85$	P	
Factors F _{TM} by light source type				
Light source type		Factor F _{TM}	--	
Non-directional (NDLS) operating on mains (MLS)		1.000	N/A	
Non-directional (NDLS) not operating on mains (NMLS)		0.926	N/A	
Directional (DLS) operating on mains (MLS)		1.176	P	
Directional (DLS) not operating on mains (NMLS)		1.089	N/A	

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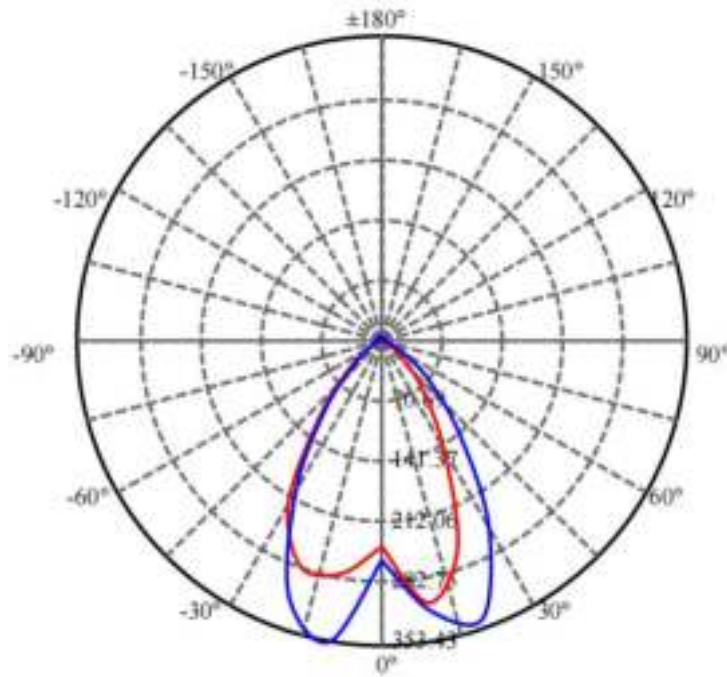
Add: 101-106, 202-206, Building 037, No. 166, Jinghua Road, Meixu Street, Ningbo High-tech Zone, Yinzhou District, Ningbo City, Zhejiang Province, China

Phone: 0574-8790 8011, Fax: +(86) 0574-8790 6976, <http://www.lcs-cert.com>

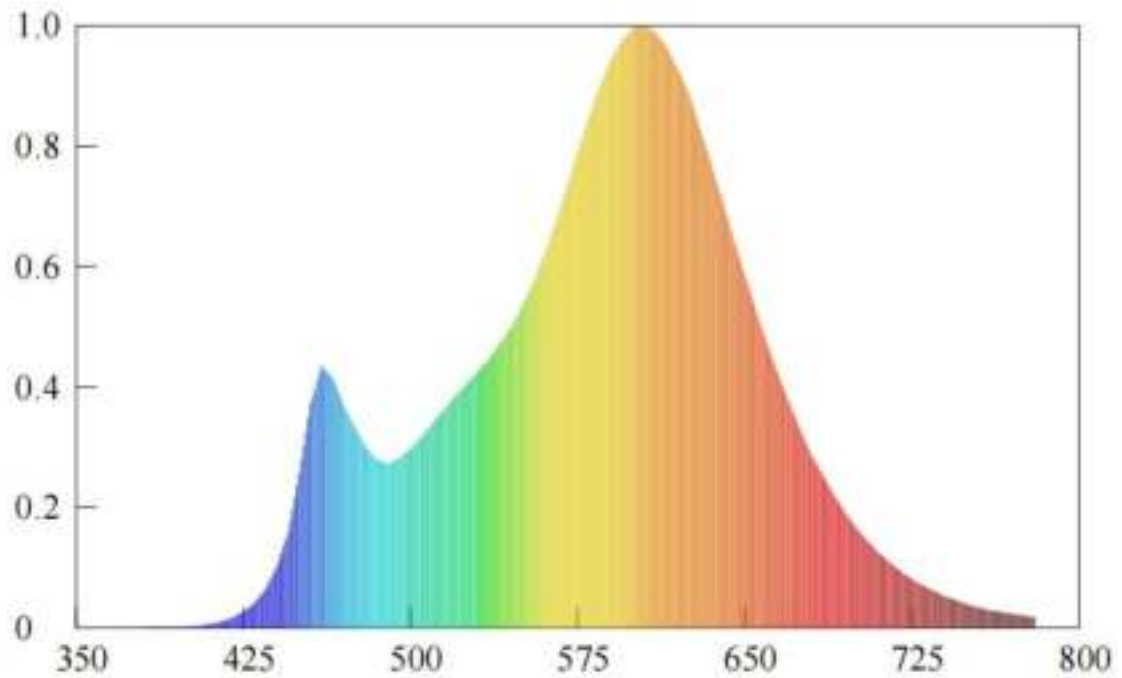


ATTACHMENT 2(S)

Luminous Intensity Distribution Diagram(6W)

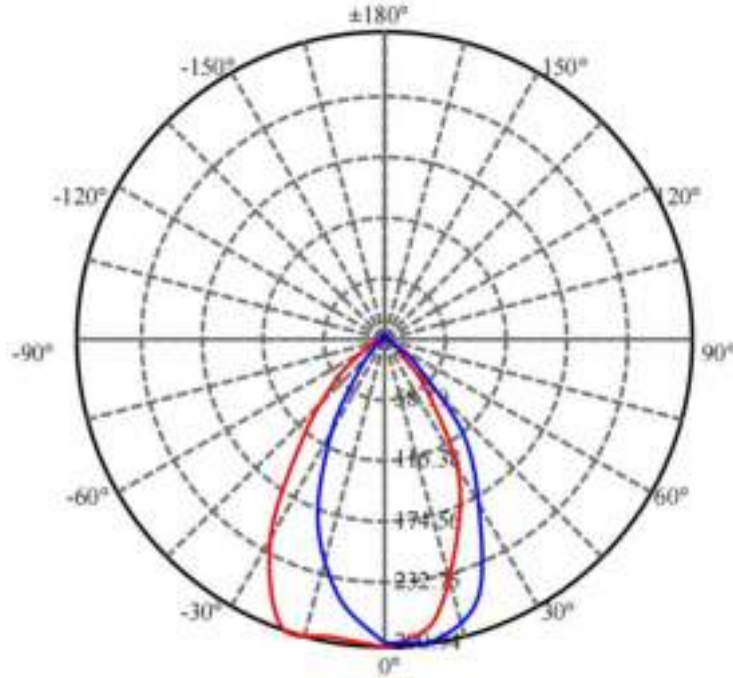


Spectral power distribution(6W)

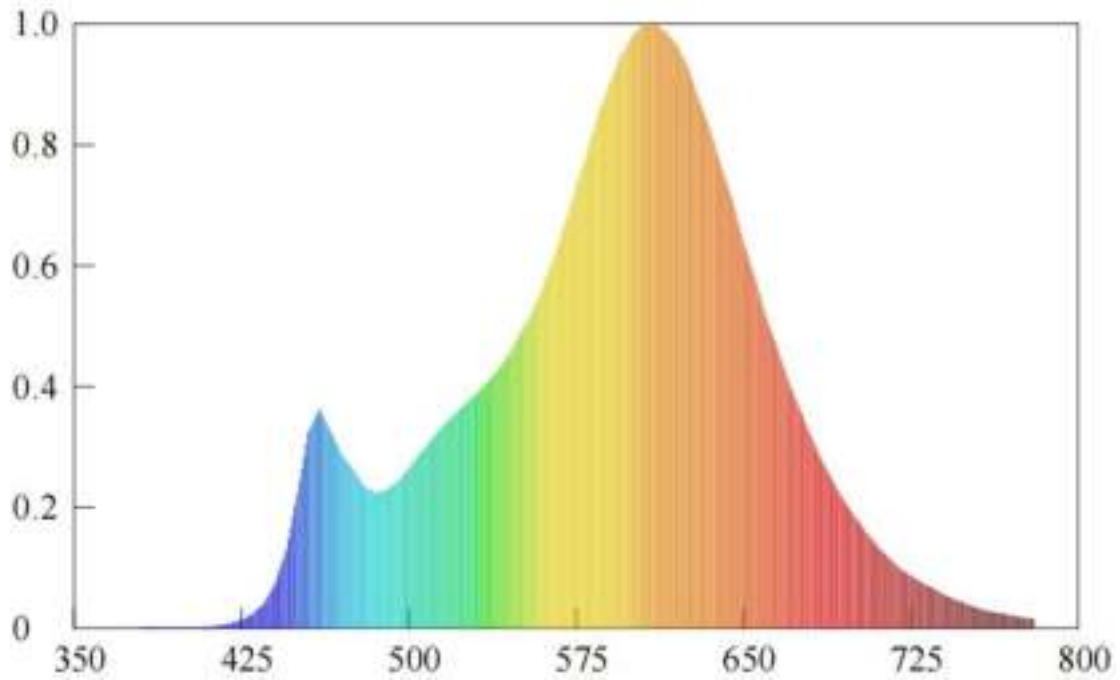




Luminous Intensity Distribution Diagram(3.6W)



Spectral power distribution(3.6W)



TRF No. (EU) 2019/2020

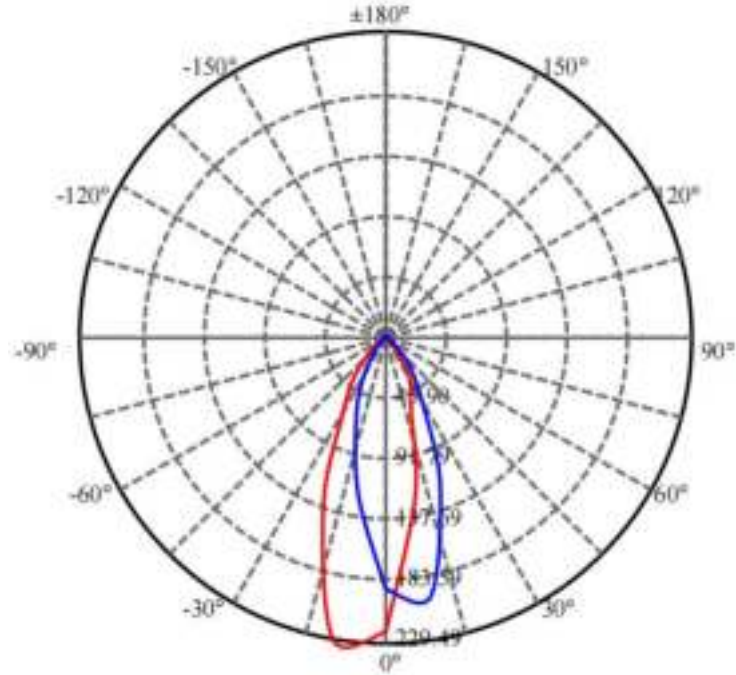
Ningbo LCS Standard Technology Service Co., Ltd.

Add: 101-106, 202-206, Building 037, No. 166, Jinghua Road, Meixu Street, Ningbo High-tech Zone, Yinzhou District, Ningbo City, Zhejiang Province, China

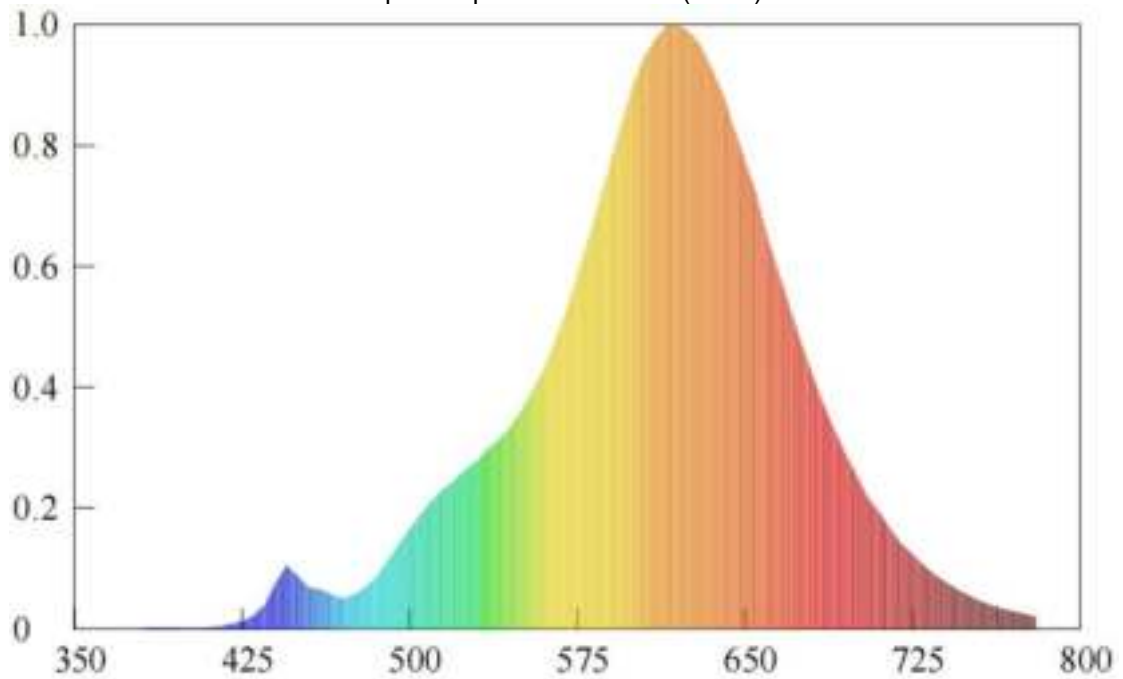
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Luminous Intensity Distribution Diagram(1.5W)



Spectral power distribution(1.5W)



ATTACHMENT 3(S)

Photos of 3SDGU10-6



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