

LED Deckenleuchte "SALAO 22 WW" IP54, 22W, 2000lm, 3000K, HF-Bewegungsm.

Produktdetails

Elegante Deckenleuchte in flachem Design mit hochwertigem Mikrowellen-Bewegungsmelder und formschönem UV-beständigem Kunststoffgehäuse mit eleganter matter Abdeckung und weißem Aussenring.

Technische Details:

- Betrieb an 230V / 50Hz
- 200 SMD LEDs
- Verbrauch im Betrieb 22W, im StandBy 0,9W
- Farbtemperatur 3000K, warmweiß
- 2000 Lumen
- Installationshöhe 2-4m
- Erfassungsbereich und Leuchtdauer einstellbar
- Erfassungsbereich: 360°, 1-8m Radius
- Leuchtdauer 10Sek - 12Min
- Nachtlicht-Funktion mit 20% Helligkeit 5sek bis dauerhaft
- Dämmerungs-Schaltswelle einstellbar 3-2000 LUX
- für den Innen- und Außenbereich IP54
- Außendurchmesser: 300mm
- Höhe: 40mm
- Energieeffizienzklasse E



Artikel-Nr.: 22753

Es sind keine besonderen Vorkehrungen für den Betrieb des Produktes zu nennen. Es sind keine gesonderten Prüfbedingungen für dieses Produkt zu nennen bzw. zu befolgen. Konformitätserklärung: Hiermit erklären wir, die ChiliTec GmbH, dass das aufgeführte Produkt die Bedingungen, erforderlichen technischen Voraussetzungen und Anforderungen bezüglich elektrischer Sicherheit erfüllt. Des weiteren werden die Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EU-Mitgliedstaaten über die elektromagnetische Verträglichkeit EMC - (2014/30/EU), die Niederspannungs-Richtlinie LVD (2014/35/EU), die Ökodesign-Richtlinie (ErP) (2019/2020/EU & 2019/2015/EU), sowie ROHS-Richtlinie (2011/65/EG - (EU) No. 2015/863) erfüllt. Die Berechtigung zum Tragen des CE Zeichens wird durch Konformität zu den o.g. Richtlinien EMC/LVD/ErP/ROHS erfüllt.



Lehre, 01.02.2021

Tobias Meyer - Technical Director

Elektronische Geräte, die mit der durchgestrichenen Abfalltonne gekennzeichnet sind gehören nicht in den Hausmüll!!! Diese Geräte können Sie kostenlos an Sammelstellen der Kommunen abgeben, erkundigen Sie sich hier bei Ihrer Gemeindeverwaltung, dem zuständigen Rathaus oder einem lokalem bzw. städtischem Abfallentsorgungsbetrieb. Vielen Dank.

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..... : KEYS21081803005EP-01

Tested by..... : Sunny Li

Approved by..... : Jason Zhan

Date of issue : August 26,2021

Contents..... : 14 pages



Testing laboratory

Name : Dongguan KEYS Testing Technology Co., Ltd.

Address : . 6 / f, Building B, Chuangyigu Industrial Park, No.5 Hehe Street,
Songxi Road, Hengkeng, Liaobu, Dongguan City

Testing location : As above

Client

Name : [REDACTED]

Address..... : [REDACTED]

Manufacturer

Name : [REDACTED]

Address..... : [REDACTED]

Test specification

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

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

Non-standard test method N/A

Test item Description: Microwave LED Sensor Lamp	
Trademark: N/A	
Model and/or type reference.....: ST707B	
Rating(s)(V/Hz).....: AC220-240V, 50/60Hz, 22W	
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 : March 08,2021	
Date(s) of performance of test.....: March 09,2021-August 26,2021	
Test item particulars:	
Type of light source:	
	<input type="checkbox"/> HL <input type="checkbox"/> LFLT5HE <input type="checkbox"/> LFL T5 <input type="checkbox"/> CFLni <input type="checkbox"/> Other FL
- Lighting technology used	<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 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 type="checkbox"/> Yes <input type="checkbox"/> Only with specific dimmers <input checked="" 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
Lamp cap installed:	N/A
General product parameters	

Energy consumption in on-mode (kWh/1 000 h)	22
Energy efficiency class	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input checked="" type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G
Rated useful luminous flux.....(lm):	2200lm
Rated CCT(K):	3000K
Power (Pon), expressed in W.....:	22W
Standby power (Psb).....(W):	N/A

Networked standby power(Pnet)for CLS.(W):	N/A
Rated Ra.....:	83.3
Outer dimensions.....(mm):	N/A
Spectral power distribution.....:	See attachment 2
Claim of equivalent power	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
Chromaticity coordinates (x and y).....:	X:0.4441,Y:0.4071
Peak luminous intensity(cd) :	772.3
Beam angle in degrees.....(°) :	< 120
R9 colour rendering index valueR9.....:	13
Survival factor	100%
The lumen maintenance factor.....:	96.81%
Displacement factor (cos φ1).....:	>0.7
Colour consistency in McAdam ellipses.....:	≤6
Claims that an LED light source replaces a fluorescent light source without integrated ballast of a particular wattage.....:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
Flicker metric (Pst LM)	0.14
Stroboscopic effect metric (SVM).....:	0.012
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 and a stable ambient temperature $25 \pm 10^{\circ}\text{C}$.
- 3、 THD ≤ 3%

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
	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°)		P
	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):	$P_{on}=21.63W$	P
	Maximum Allowed Power P_{onmax} (W): $P_{onmax} = C \times (L + \Phi_{use}/(F \times \eta)) \times R$	$P_{onmax}=28.37W$	P
	Φ_{use} :	2200lm	P
	Threshold efficacy η (lm/W): η for LED:	120	P
	End loss factor L (W) depending on light source: L for LED:	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)		N
	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
	CRI Factor R: ($CRI+80$)/160 for $CRI > 25$, rounded to two decimals	$R=(80+80)/160=1.0$	P
	Correction Factor C Depending on Light Source Characteristics in Table 2		N

(EU) 2019/2020			
Clause	Requirement - Test	Result - Remark	Verdict
	Non-directional (NDLS) not operating on mains (NMLS), Basic Value: 1.00		N
	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	1.23	P
	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		N
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	83.3	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 $< P_{on}$	0.922	P
	Lumen Maintenance Factor (for LED and OLED): $X_{LMF,MIN}\% = 100 \times e^{\frac{(3000 \times \ln(0.7))}{L_{70}}}$	96.81%	P

(EU) 2019/2020			
Clause	Requirement - Test	Result - Remark	Verdict
	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 sources: Variation of chromaticity coordinates within a six-step MacAdam ellipse or less.	3.4	P
	Flicker for LED and OLED MLS: $P_{st} LM \leq 1.0$ at full-load	0.14	P
	Stroboscopic effect for LED and OLED MLS: $SVM \leq 0.4$ at full-load	0.012	P
3.(a)	Information to be displayed on the light source itself		P
	Useful luminous flux (lm)		P
	Correlated colour temperature (K)		P
	Beam angle (°) For directional light sources		P
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		P
	(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

(EU) 2019/2020			
Clause	Requirement - Test	Result - Remark	Verdict
	(i) Colour Rendering Index, rounded to the nearest integer		P
	(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
	(k) Information on non-standard conditions (such as ambient temperature $T_a \neq 25^\circ\text{C}$ or specific thermal management is necessary)		P
	(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
	(m) if the light source contains mercury: a warning of this, including the mercury content in mg rounded to the first decimal place		N
	(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
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

(EU) 2019/2020			
Clause	Requirement - Test	Result - Remark	Verdict
	(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
	(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
	(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 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

(EU) 2019/2020			
Clause	Requirement - Test	Result - Remark	Verdict
	(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

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	21.34	0.924	2281.4	106.91	2860	83.5	12	3.4	0.4466	0.4061
2	21.40	0.928	2292.8	107.14	2832	83.1	10	3.5	0.4444	0.4081
3	21.80	0.919	2311.1	106.01	2847	83.3	18	3.6	0.4451	0.4072
4	21.53	0.927	2276.8	105.75	2852	83.5	10	3.2	0.4436	0.4064
5	21.47	0.919	2304.2	107.32	2837	83.7	13	3.5	0.4461	0.4086
6	21.80	0.929	2301.9	105.59	2832	83.2	15	3.7	0.4443	0.4070
7	21.71	0.926	2292.8	105.61	2852	83.1	11	3.2	0.4455	0.4052
8	21.86	0.921	2279.1	104.26	2847	83.3	10	3.1	0.4412	0.4084
9	21.60	0.910	2304.2	106.68	2822	82.9	14	3.4	0.4407	0.4070
10	21.80	0.920	2320.2	106.43	2866	83.0	12	3.8	0.4430	0.4067
Avg.	21.63	0.922	2296.5	106.16	2845	83.3	13	3.4	0.4441	0.4071

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

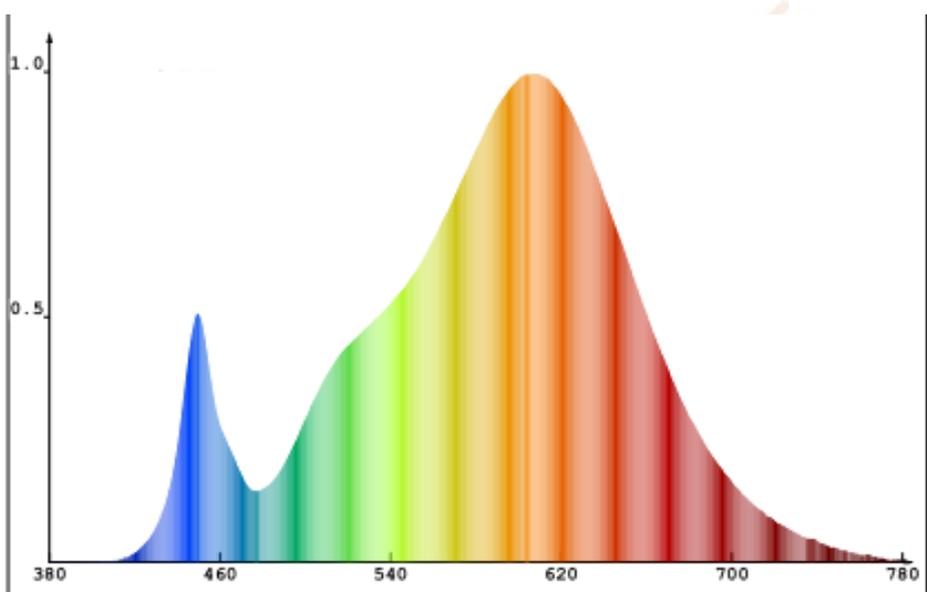
Sample No.	No-Load Power Pno	Standby Power Psb	Network Sb. Power Pnet	Flicker Pst LM	Stroboscopic Effect SVM	Total Luminous flux (lm) After 3600h	Lumen Maintenance at 3600h (%)	Survival factor at 3600h
1	N/A	N/A	N/A	0.16	0.017	2193.7	96.16%	P
2	N/A	N/A	N/A	0.11	0.013	2207.4	96.28%	P
3	N/A	N/A	N/A	0.13	0.014	2229.8	96.48%	P
4	N/A	N/A	N/A	0.10	0.009	2229.9	97.94%	P
5	N/A	N/A	N/A	0.16	0.011	2241.1	97.26%	P
6	N/A	N/A	N/A	0.19	0.015	2231.8	96.95%	P
7	N/A	N/A	N/A	0.17	0.009	2230.7	97.29%	P
8	N/A	N/A	N/A	0.12	0.008	2195.3	96.32%	P
9	N/A	N/A	N/A	0.07	0.010	2240.9	97.25%	P
10	N/A	N/A	N/A	0.14	0.012	2230.5	96.13%	P
Avg.	N/A	N/A	N/A	0.14	0.012	2223.1	96.81%	P

ATTACHMENT 1(S)

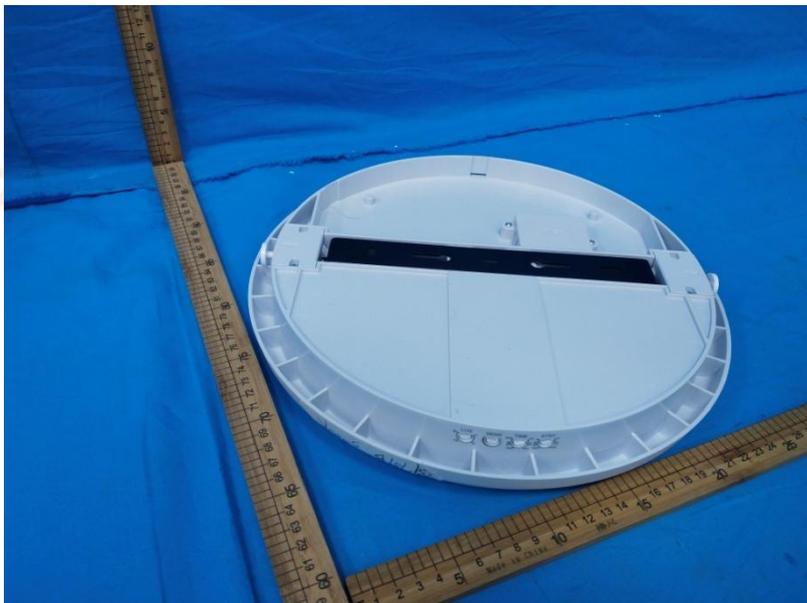
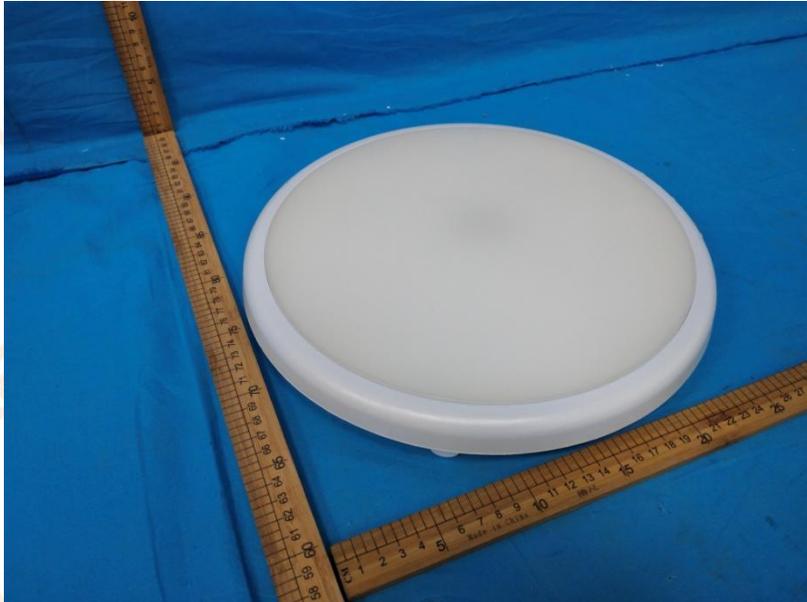
Energy efficiency classes			
Standard	Clause	Model No.	Verdict
(EU) 2019/2015	Energy class	ST707B	P
Conditions	-Test conditions: -ambition: 25°C/65%R.H. -Test voltage:AC230V		
Φ use	2200lm (Declared)		
P_{on}	$P_{on} = 22W$ (Declared)		
F_{TM}	1.176		
η_{TM}	117.6 lm/W (Declared)		
Technical requirements		Test result	
$\eta_{TM} = (\Phi_{use}/P_{on}) \times F_{TM} \text{ (lm/W)}.$		Energy efficiency class	Total mains efficacy η_{TM} (lm/W)
		A	$210 \leq \eta_{TM}$
		B	$185 \leq \eta_{TM} < 210$
		C	$160 \leq \eta_{TM} < 185$
		D	$135 \leq \eta_{TM} < 160$
		E	$110 \leq \eta_{TM} < 135$
		F	$85 \leq \eta_{TM} < 110$
		G	$\eta_{TM} < 85$
Factors F_{TM} by light source type			
Light source type		Factor F_{TM}	--
Non-directional (NDLS) operating on mains (MLS)		1.000	N
Non-directional (NDLS) not operating on mains (NMLS)		0.926	N
Directional (DLS) operating on mains (MLS)		1.176	P
Directional (DLS) not operating on mains (NMLS)		1.089	N

ATTACHMENT 2(S)

Spectral power distribution



ATTACHMENT 3(S)



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