



Technical Report No.: 66.140.19.0023.01 Rev.00

Date: 2019-04-01

Client: Name: Signify Luminaires (Shanghai) Co., Ltd
Address: Building 6, No.1805, Huyi Rd., Malu Town, Jiading District, Shanghai City, PEOPLE'S REPUBLIC OF CHINA
contact person: Ms. Selina Zhuang

Manufacturing place: Manufacturer's name: same as the client
Address: same as the client
Factory's name: Xiamen Guangpu Electronics Co.,Ltd.
Address: No1800 -1812, Min'An Road, Xiang'an District, Xiamen, Fujian, PEOPLE'S REPUBLIC OF CHINA.

Test subject: Product: LED panel lights
Type: see model list

Trade mark (if any): **PHILIPS**

Test specification: IEC TR 62778:2014

- Purpose of examination:
- ☐ inspection according to specified requirements to realize the conformity with the Produktsicherheitsgesetz –ProdSG, version Nov 08, 2011
 - ☐ inspection according to specified requirements to realize the observance of the protection aims of the following EC directives:
 - ☐ LVD directive 2014/35/EU
 - ☐ EMC directive 2014/30/EU
 - Test according to the test specification

Test result: The test results show that the presented product is in compliance with the specified requirements

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1 Description of the test subject

1.1 Function

☒ Manufacturer's specification for intended use:

(According to the user manual)

The LED panel lights is intended to be used indoor only.

☐ Manufacturer's specification for predictive misuse:

(According to the user manual)

1.2 Consideration of the foreseeable misuse

☐ Not applicable

☒ Covered through the applied standard

☐ Covered by the following comment

☐ Covered by attached risk analysis

1.3 Technical Data

Model	:	See model list
Rated Voltage (V)	:	220-240V AC for model RC091V LED26S/8XX PSU W60L60RU, RC091V LED34S/8XX PSU W60L60RU 33-40V DC for model RC091V LED26S/8XX WO W60L60RU, RC091V LED34S/8XX WO W60L60RU
Rated Frequency (Hz)	:	See model list
Rated Power (W)	:	See model list
Protection Class	:	Class II for model RC091V LED26S/8XX PSU W60L60RU, RC091V LED34S/8XX PSU W60L60RU Class III for model RC091V LED26S/8XX WO W60L60RU, RC091V LED34S/8XX WO W60L60RU
Degree of Protection	:	IP 20
Blue Light Risk Group	:	RG0
Remark:	:	Below information suit for without driver model: The products must be connected to a SELV Driver which fulfils the requirements of IEC/EN 61347-1 and IEC/EN 61347-2-13 with the following technical data: Input: 220-240V~, 50/60Hz Output: see model list Class II Model list

Item	Model name	Rated power (W)	Rated voltage for LED driver	Rated parameter for luminaires	LED driver	LED Specification information
1	RC091V LED26S/8XX WO W60L60RU	28	-	33-40V DC 700mA	-	Samsung LM401B+ If:60mA VF:2.9-3.4V 2700~6500K
2	RC091V LED26S/8XX PSU W60L60RU		220-240V AC,50/60Hz	-	KEDH030S0700NR22A9	
3	RC091V LED34S/8XX WO W60L60RU	34	-	33-40V DC 850mA	-	
4	RC091V LED34S/8XX PSU W60L60RU		220-240V AC,50/60Hz	-	KEDH036S0850NR22A9	



Remark: 1. 'XX' stands for CCT value, which can be 27~65, e.g. 27=2700K
 2. All models have same construction, circuit diagram, except the model name and rated parameter.
 3. Item 1 same as item 2 except the item 1 without LED driver; item 3 same as item 4 except the item 3 without LED driver.

2 Order

2.1 Date of Purchase Order, Customer's Reference

2019-03-07

2.2 Receipt of Test Sample, Condition, Location

2019-03-25, TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch

2.3 Date of Testing

2019-03-25 to 2019-03-26

2.4 Location of Testing

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou branch

2.5 Points of Non-compliance or Exceptions of the Test Procedure

None

3 Test Results

3.1 Positive Test Results

7	MEASUREMENT INFORMATION FLOW		P
7.1	Basic flow		P
	'Law of conservation of luminance' applied		P
	Use of only true luminance/radiance values		P
	In case of luminaire: The light source is operated in the luminaire under similar conditions as when tested as a component		P
	In case E_{thr} value for RG2 was established the peak value was derived from angular light distribution		N/A
7.2	Conditions for the radiance measurement		P
	Standard condition applied (200mm distance, 0,011rad field of view)		P
	Non-standard condition applied		N/A
7.3	Special cases (I): Replacement by a lamp or LED module of another type		N/A

	Light source is a white light source		N/A
	Evaluation done based on highest luminance		N/A
	Evaluation done based on CCT value		N/A
7.4	Special cases (II): Arrays and clusters of primary light sources		N/A
	LED package is evaluated as	<input type="checkbox"/> RG0 unlimited <input type="checkbox"/> RG1 unlimited	N/A
	E_{thr} of LED package applies to array		N/A
8	RISK GROUP CLASSIFICATION		P
	Risk group achieved:		P
	-.. Risk Group 0 unlimited		P
	-.. Risk Group 1 unlimited		N/A
	- E_{thr} (lx) : Distance to reach RG1 (m) :		N/A

	TABLE: Spectroradiometric measurement				P
	Measurement performed on:	<input type="checkbox"/> LED package <input type="checkbox"/> LED module <input type="checkbox"/> Lamp <input checked="" type="checkbox"/> Luminaire			
	Model number.....	RC091V LED34S/865 PSU W60L60RU			
	Test voltage (V).....	240V			—
	Test current (mA).....	220			—
	Test frequency (Hz)	50			—
	Ambient, t (°C).....	25			—
	Measurement distance	<input checked="" type="checkbox"/> 20 cm <input type="checkbox"/> ... cm			—
	Source size	<input checked="" type="checkbox"/> Non-small <input type="checkbox"/> Small : mm			—
	Field of view	<input type="checkbox"/> 100 mrad <input type="checkbox"/> 11 mrad <input type="checkbox"/> 1,7 mrad (for small sources)			—
Item		Sym- bol	Units	Result	Remark
Correlated colour temperature		CCT	K	6500	
x/y colour coordinates				/	

Blue light hazard radiance	L_B	$W/(m^2 \cdot sr^1)$	2.23	
Blue light hazard irradiance	E_B	W/m^2	/	
Luminance	L	cd/m^2	/	
Illuminance	E	lx	/	
Supplementary information:used Samsung LM401B+				

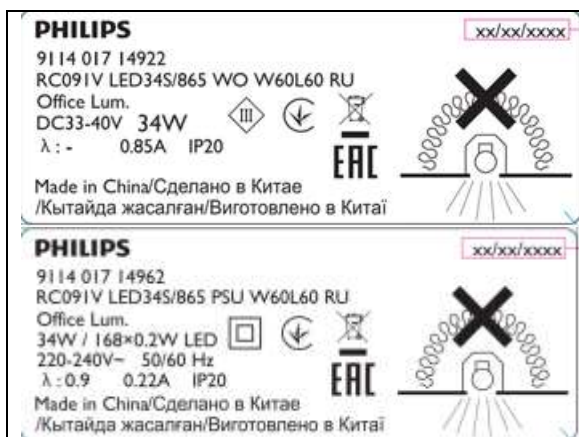
3.2 Points of non-compliance according to the test specification

None

4 Remark

N/A

5 Label



Representative model, others models have same format, different in model name and rated parameter.

6 Summary

The test specifications are met.


7 Photo documents

Details of:	Representative model: RC091V LED34S/8XX PSU W60L60RU
	('XX' stands for CCT value, which can be 27~65, e.g. 27=2700K)
View: <input type="checkbox"/> General <input type="checkbox"/> Front <input type="checkbox"/> Rear <input type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Top <input type="checkbox"/> Bottom	

Details of:	Detail of product
View: <input type="checkbox"/> General <input type="checkbox"/> Front <input type="checkbox"/> Rear <input type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Top <input type="checkbox"/> Bottom	

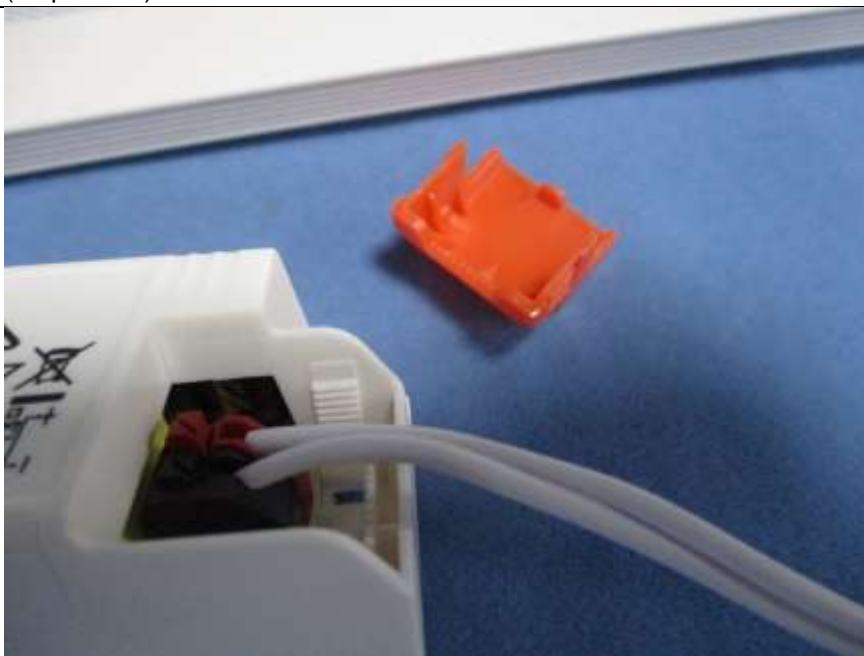
Details of:	Detail of product
View: <input type="checkbox"/> General <input type="checkbox"/> Front <input type="checkbox"/> Rear <input type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Top <input type="checkbox"/> Bottom	

Details of:	Detail of product
View: <input type="checkbox"/> General <input type="checkbox"/> Front <input type="checkbox"/> Rear <input type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Top <input type="checkbox"/> Bottom	

Details of:	Detail of product
View: <input type="checkbox"/> General <input type="checkbox"/> Front <input type="checkbox"/> Rear <input type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Top <input type="checkbox"/> Bottom	

Details of:	Detail of product
View: <input type="checkbox"/> General <input type="checkbox"/> Front <input type="checkbox"/> Rear <input type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Top <input type="checkbox"/> Bottom	

Details of:	Detail of product
View: <input type="checkbox"/> General <input type="checkbox"/> Front <input type="checkbox"/> Rear <input type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Top <input type="checkbox"/> Bottom	

Details of:	Detail of LED driver (output wire)
View: <input type="checkbox"/> General <input type="checkbox"/> Front <input type="checkbox"/> Rear <input type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Top <input type="checkbox"/> Bottom	

Details of:	Representative LED driver: for model RC091V LED34S/8XX PSU W60L60RU
View:	
<input type="checkbox"/> General	
<input type="checkbox"/> Front	
<input type="checkbox"/> Rear	
<input type="checkbox"/> Right	
<input type="checkbox"/> Left	
<input type="checkbox"/> Top	
<input type="checkbox"/> Bottom	

Details of:	General view: for model RC091V LED26S/8XX WO W60L60RU & RC091V LED34S/8XX WO W60L60RU
	(without LED driver)
View:	
<input type="checkbox"/> General	
<input type="checkbox"/> Front	
<input type="checkbox"/> Rear	
<input type="checkbox"/> Right	
<input type="checkbox"/> Left	
<input type="checkbox"/> Top	
<input type="checkbox"/> Bottom	



TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
TÜV SÜD Group

Tested by:


Linc Liu
Project Handler

Reviewed by:


Kenny Chen
Designated Reviewer



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