



Test Report issued under the responsibility of:



TEST REPORT
IEC 60598-2-3
Luminaires
Part 2: Particular requirements
Section 3: Luminaires for road and street lighting

Report Number.: **CN21NN6Y 002**
Date of issue: **2021.10.12**
Total number of pages: **11 pages**

Name of Testing Laboratory preparing the Report.....: **TÜV Rheinland (Shanghai) Co., Ltd.**
No. 177, 178, Lane 777 West Guangzhong Road Jing'an District
Shanghai CHINA

Applicant's name.....: **Jiangsu Sokoyo Solar Lighting Co., Ltd.**
Address: West Guoji Industry Park, Northern Suburb of Yangzhou City,
Jiangsu, P.R. China

Test specification:
Standard: IEC 60598-2-3:2002, AMD1:2011 used in conjunction with
IEC 60598-1:2014, AMD1:2017
Test procedure: CB Scheme
Non-standard test method.....: N/A

Test Report Form No......: IEC60598_2_3L
Test Report Form(s) Originator....: Intertek Semko AB
Master TRF.....: Dated 2018-03-09

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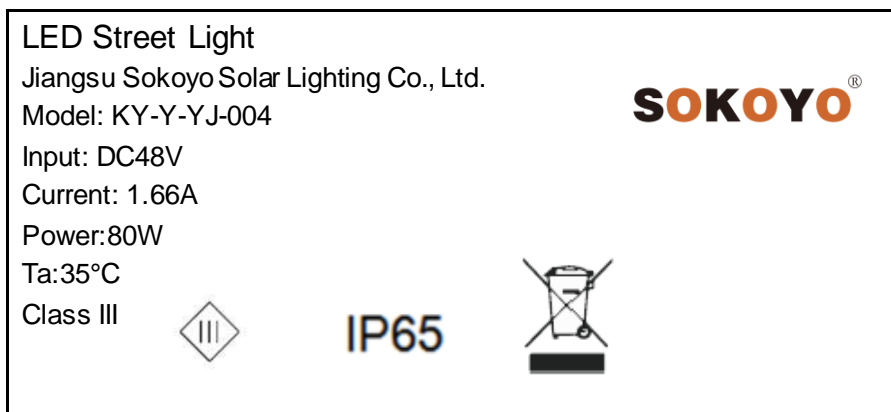
Test item description..... :	LED Street Light	
Trade Mark..... :	SOKOYO®	
Manufacturer..... :	Jiangsu Sokoyo Solar Lighting Co., Ltd.	
Model/Type reference	KY-F-XC-001, KY-F-XC-002, KY-F-HX-001, KY-F-HX-002 KY-F-HX-003, KY-F-HX-004 details see model list on page 7	
Ratings..... :	Class III; IP65; ta=35°C details see 'General product information'	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input checked="" type="checkbox"/>	CB Testing Laboratory:	TÜV Rheinland (Shanghai) Co., Ltd.
Testing location/ address	No. 177, 178, Lane 777 West Guangzhong Road Jing'an District Shanghai CHINA	
Tested by (name, function, signature)	Mark Geng/Trainee Fernando Dai / PE	<i>Mark Geng. Fernando Dai</i>
Approved by (name, function, signature)..:	Alex Yan / Reviewer	<i>Alex Yan</i>
<input type="checkbox"/>	Testing procedure: CTF Stage 1:	
Testing location/ address	N/A	
Tested by (name, function, signature)	N/A	
Approved by (name, function, signature)..:	N/A	
<input type="checkbox"/>	Testing procedure: CTF Stage 2:	
Testing location/ address	N/A	
Tested by (name + signature)	N/A	
Witnessed by (name, function, signature)..:	N/A	
Approved by (name, function, signature)..:	N/A	
<input type="checkbox"/>	Testing procedure: CTF Stage 3:	
<input type="checkbox"/>	Testing procedure: CTF Stage 4:	
Testing location/ address	N/A	
Tested by (name, function, signature)	N/A	
Witnessed by (name, function, signature)..:	N/A	
Approved by (name, function, signature)..:	N/A	
Supervised by (name, function, signature):	N/A	

List of Attachments (including a total number of pages in each attachment): N/A	
Summary of testing:	
Tests performed (name of test and test clause): Clause 3 according to IEC 60598-2-3:2002, AMD1:2011 used in conjunction with IEC 60598-1:2014, AMD1:2017 were performed in TÜV Rheinland (Shanghai) Co., Ltd.	Testing location: TÜV Rheinland (Shanghai) Co., Ltd. No. 177, 178, Lane 777 West Guangzhong Road Jing'an District Shanghai CHINA
Summary of compliance with National Differences: N/A	

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Take model KY-Y-YJ-004 as example



Model name	Input voltage (dc)	Rated current	Rating Wattage
KY-F-XC-001	36V	1,11A	40W
KY-F-XC-002	36V	1,67A	60W
KY-F-HX-001	42V	1,91A	80W
KY-F-HX-002	48V	2,08A	100W
KY-F-HX-003	48V	2,5A	120W
KY-F-HX-004	48V	3,13A	150W
KY-F-FY-001	30V	1,33A	40W
KY-F-FY-002	48V	1,25A	60W
KY-F-JX-001	48V	1,25A	60W
KY-F-HT-001	42V	1,91A	80W
KY-F-HT-002	48V	2,08A	100W
KY-F-HT-003	48V	2,5A	120W
KY-E-FY-001	30V	1,33A	40W
KY-E-JX-001	30V	1,33A	40W
KY-E-HT-001	42V	0,95A	40W
KY-E-HT-002	42V	1,19A	50W
KY-E-HT-003	42V	1,43A	60W
KY-E-HT-004	42V	1,67A	70W
KY-Y-YF-001	30V	1A	30W
KY-Y-YF-002	30V	1,33A	40W
KY-Y-YF-003	30V	1,67A	50W
KY-Y-YF-004	30V	2A	60W
KY-Y-YJ-001	48V	1,25A	60W
KY-Y-YJ-002	42V	1,91A	80W
KY-Y-YJ-003	48V	2,5A	120W
KY-Y-YJ-004	48V	1,66A	80W
KY-D-HY-001	30V	1,33A	40W
KY-D-XC-001	36V	1,67A	60W
KY-D-HX-001	42V	1,91A	80W
KY-D-HX-002	48V	2,08A	100W
KY-D-HX-003	48V	2,5A	120W
KY-D-HX-004	48V	3,13A	150W

KY-D-HX-005	48V	3,75A	180W
KY-D-HX-006	48V	4,17A	200W
KY-D-HX-007	48V	5A	240W

The height of letters and numerals shall not be less than 2mm.

The height of graphical symbols shall not be less than 5 mm.

The height of symbol of WEEE shall not be less than 7 mm.

Test item particulars..... : LED Street Light	
Classification of installation and use..... : Class III	
Supply Connection..... : DC connector :	
Possible test case verdicts: - test case does not apply to the test object..... : N/A - test object does meet the requirement : P (Pass) - test object does not meet the requirement..... : F (Fail)	
Testing : Date of receipt of test item..... : 2021.09.10 Date (s) of performance of tests : 2021.10.10	
General remarks: "(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 <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator. Clause numbers between brackets refer to clauses in IEC 60598-1	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC 02:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies) : Jiangsu Sokoyo Solar Lighting Co., Ltd. West Guoji Industry Park, Northern Suburb of Yangzhou City, Jiangsu P.R. China	

General product information:

This original test report CN21NN6Y 001 dated 2021.10.08 was modified on 2021.10.12 with the following changes:

Add new models KY-Y-YJ-004. It is same as previous certified model KY-Y-YJ-003 except lower rating.

Model list:

Model name	Input voltage	Rating Wattage	Dimension (mm*mm*mm)	LED quantity	Pipe diameter (mm)
KY-Y-YJ-004	48Vdc	80W	680*1980*90	84	102

Clause 3 according to IEC 60598-2-3:2002, AMD1:2011 used in conjunction with IEC 60598-1:2014, AMD1:2017 were tested and passed

History:

Report No.: CN21NN6Y 001 date 2021.10.08, original report.

Report No.: CN21NN6Y 002 date 2021.10.12, technical modification.

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict

3.2 (0)	GENERAL TEST REQUIREMENTS		P
3.2 (0.3)	More sections applicable..... :	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Section/s:	—
3.2 (0.5)	Components	(see Annex 1)	—
3.2 (0.7)	Information for luminaire design in light sources standards		—
3.2 (0.7.2)	Light source safety standard	IEC 62031, IEC TR 62778	—
	Luminaire design in the light source safety standard		P

3.4 (2)	CLASSIFICATION OF LUMINAIRES		P
3.4 (2.2)	Type of protection	Class III	P
3.4 (2.3)	Degree of protection..... :	IP65	—
3.4 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	—
3.4 (2.5)	Luminaire for normal use	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	—
	Luminaire for rough service	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—
3.4 (-)	Modes of installation of road or street lighting		—
	a) on a pipe	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	—
	b) on a mast arm	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	—
	c) on a post top	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	—
	d) on span or suspension wires	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—
	e) on a wall	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—

3.5 (3)	MARKING		P
3.5 (3.2)	Mandatory markings		P
	Position of the marking	Attached on the external surface / supply cord	P
	Format of symbols/text		P
3.5 (3.3)	Additional information		P
	Language of instructions		P
3.5 (3.3.1)	Combination luminaires		N/A
3.5 (3.3.2)	Nominal frequency in Hz		N/A
3.5 (3.3.3)	Operating temperature		N/A
3.5 (3.3.5)	Wiring diagram		N/A
3.5 (3.3.6)	Special conditions		N/A

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
3.5 (3.3.7)	Metal halide lamp luminaire – warning		N/A
3.5 (3.3.8)	Limitation for semi-luminaires		N/A
3.5 (3.3.9)	Power factor and supply current		P
3.5 (3.3.10)	Suitability for use indoors		N/A
3.5 (3.3.11)	Luminaires with remote control		N/A
3.5 (3.3.12)	Clip-mounted luminaire – warning		N/A
3.5 (3.3.13)	Specifications of protective shields		N/A
3.5 (3.3.14)	Symbol for nature of supply		N/A
3.5 (3.3.15)	Rated current of socket outlet		N/A
3.5 (3.3.16)	Rough service luminaire		N/A
3.5 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments	Type Y	P
3.5 (3.3.18)	Non-ordinary luminaires with PVC cable		N/A
3.5 (3.3.19)	Protective conductor current in instruction if applicable		N/A
3.5 (3.3.20)	Provided with information if not intended to be mounted within arm's reach		N/A
3.5 (3.3.21)	Non-replaceable and non-user replaceable light sources information provided	non-user replaceable	P
3.5 (3.3.22)	Controllable luminaires, classification of insulation provided		N/A
3.5 (3.3.23)	Luminaire without controlgear provided with necessary information for selection of appropriate component		N/A
3.5 (3.3.24)	If not supplied with terminal block, information on the packaging		N/A
3.5 (3.4)	Test with water		P
	Test with hexane		P
	Legible after test		P
	Label attached		P
3.5 (-)	Additional information in instruction leaflet		P
	a) Design attitude		P
	b) Weight		P
	c) Overall dimensions		P
	d) Maximum projected area if applicable		P
	e) Cross-sectional area of wires if applicable		N/A
	f) Suitability for indoors use		N/A

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	g) Dimensions of the compartment		N/A
	h) Torque setting to be applied to bolts or screws		P
	i) Maximum mounting height		P
3.6 (4)	CONSTRUCTION		N/A
3.7 (11)	CREEPAGE DISTANCES AND CLEARANCES		N/A
3.8 (7)	PROVISION FOR EARTHING		N/A
3.9 (14)	SCREW TERMINALS		N/A
3.9 (15)	SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS		N/A
3.10 (5)	EXTERNAL AND INTERNAL WIRING		N/A
3.11 (8)	PROTECTION AGAINST ELECTRIC SHOCK		N/A
3.12 (12)	ENDURANCE TEST AND THERMAL TEST		N/A
3.13 (9)	RESISTANCE TO DUST AND MOISTURE		N/A
3.14 (10)	INSULATION RESISTANCE AND ELECTRIC STRENGTH		N/A

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
3.15 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING		N/A
3.7 (11.2)	TABLE I: Creepage distances and clearances		N/A
3.7 (11.2)	TABLE II: Creepage distances and clearances		N/A
3.15 (13.2.1)	TABLE: Ball Pressure Test of Thermoplastics		N/A
3.15 (13.3.1)	TABLE: Needle-flame test (IEC 60695-11-5)		N/A
3.15 (13.3.2)	TABLE: Glow-wire test (IEC 60695-2-11)		N/A
3.15 (13.4)	TABLE: Proof tracking test (IEC 60112)		N/A
ANNEX 1	TABLE: Critical components information		N/A
ANNEX 2	TABLE: Thermal tests of Section 12		N/A
ANNEX 2	TABLE: Thermal tests of Section 12		N/A
ANNEX 3	Screw terminals (part of the luminaire)		N/A
ANNEX 4	Screwless terminals (part of the luminaire)		N/A
(15.6.3.1) (15.6.3.2)	TABLE: Contact resistance test / Heating tests		N/A

- End of test report --