

TEST REPORT

LED SPIKE LIGHT

Test Model: AS-GS-SP85-18W

Report Number : LCSB04296011S

Applicant : SHENZHEN GS LIGHT LIMITED
Address : 12/F, Building 3B, Tianji Cihai Industrial Park, No.13 Tianxing Road,
Huangjiang Town, Dongguan, China

Manufacturer : SHENZHEN GS LIGHT LIMITED
Address : 12/F, Building 3B, Tianji Cihai Industrial Park, No.13 Tianxing Road,
Huangjiang Town, Dongguan, China

Prepared by : Shenzhen Southern LCS Compliance Testing Co., Ltd.
Address : 101-201, Building 39, Xialang Industrial Zone, Heshuikou Community,
Matian Street, Guangming District, Shenzhen, China

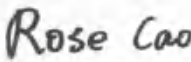
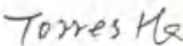
Date of receipt sample : May 6, 2026
Date of test : May 6, 2026~May 8, 2026
Date of issue : May 9, 2026

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company, The report would be invalid without specific stamp of test institute and the signatures of approver.



TEST REPORT

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Manufacturer:	SHENZHEN GS LIGHT LIMITED		
Address:	12/F, Building 3B, Tianji Cihai Industrial Park, No.13 Tianxing Road, Huangjiang Town, Dongguan, China		
Brand Name:	N/A		
Product Description:	LED SPIKE LIGHT		
Models:	AS-GS-SP85-18W		
Rating:	AC200-240V, 50/60Hz, 18W		
Test item:	IP66 Test		
Method:	Clause 11.2 of IEC 60598-1:2024		
Test result*:	Pass		
Date of sample receipt:	Date of Test:	Date of Issue:	Classification:
2026/5/6	2026/5/6~2026/5/8	2026/5/9	Commission Test
Testing Laboratory: Shenzhen Southern LCS Compliance Testing Co., Ltd. 101-201, Building 39, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China			
Test by:	Check by:	Approved by:	
 Rose Cao/ Project Engineer	 Torres He/ Director		
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General remarks:

1. The test results presented in this report relate only to the object tested.
2. This report shall not be reproduced, except in full, without the written approval of the Issuing Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the Testing Laboratory, responsible for this Test Report.
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4. No decision rule is specified by the IEC standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method").

Modified Information

Version	Report No.	Revision Date	Summary
V1.0	LCSB04296011S	/	Original Version

General product information: N/A**Equipment used during test:**

ID Number	Instrument	Model/ Type	Calibration Date
SLCS-S-031	Sand and dust test box	SC-500	2026/4/23
SLCS-S-034	IPX5, IPX6 waterproof equipment	JL-1/2	2025/12/7
SLCS-S-072	Torque Driver	26RTD	2026/4/23
SLCS-S-073	Hi-pot tester	AN9602M	2026/4/23
SLCS-S-062	Frequency Converter	AN97020TS	2026/4/23
SLCS-S-202	Digital Power Meter	PF9800	2025/12/20
SLCS-S-011	J Thermocouple	J	2026/4/27
SLCS-S-210	Temperature recorder	34970A	2026/4/23
SLCS-E-027	Temperature and humidity barometer	/	2026/4/19

Test Item:

Tests for protection against dust-proof: IP6X

Test Method:

The tests should be carried out under the standard atmospheric condition.

Temperature range: -40°C to 50°C.

Dust-tight luminaires (first characteristic IP numeral 6) shall be tested in a dust chamber similar to that shown in Figure 40, in which talcum powder is maintained in suspension by an air current.

The chamber shall contain 2 kg of powder for every cubic metre of its volume. The talcum powder used shall be able to pass through a square-meshed sieve whose nominal wire diameter is 50 µm and whose nominal free distance between wires is 75 µm. It shall not have been used for more than 20 tests.

The test shall proceed as follows.

- a) The luminaire is suspended outside the dust chamber and operated at rated supply voltage until operating temperature is achieved.
- b) The luminaire, whilst still operating, is placed with the minimum disturbance in the dust chamber.
- c) The door of the dust chamber is closed.
- d) The fan or blower causing the talcum powder to be in suspension is switched on.

After 1 min, the luminaire is switched off and allowed to cool for 3 h whilst the talcum powder remains in suspension.

NOTE: The 1 min interval between switching on the fan or blower and switching off the luminaire is to ensure that the talcum powder is properly in suspension around the luminaire during initial cooling, which is most important with smaller luminaires. The luminaire is operated initially as in item a) to ensure the test chamber is not overheated.

Acceptance Conditions:

After completion of the tests, the luminaire shall withstand the electric strength test specified in Section 12, and inspection shall show:

No deposit of talcum powder inside enclosures for dust-tight luminaires.

Test Result:

☒ Pass ☐ Fail

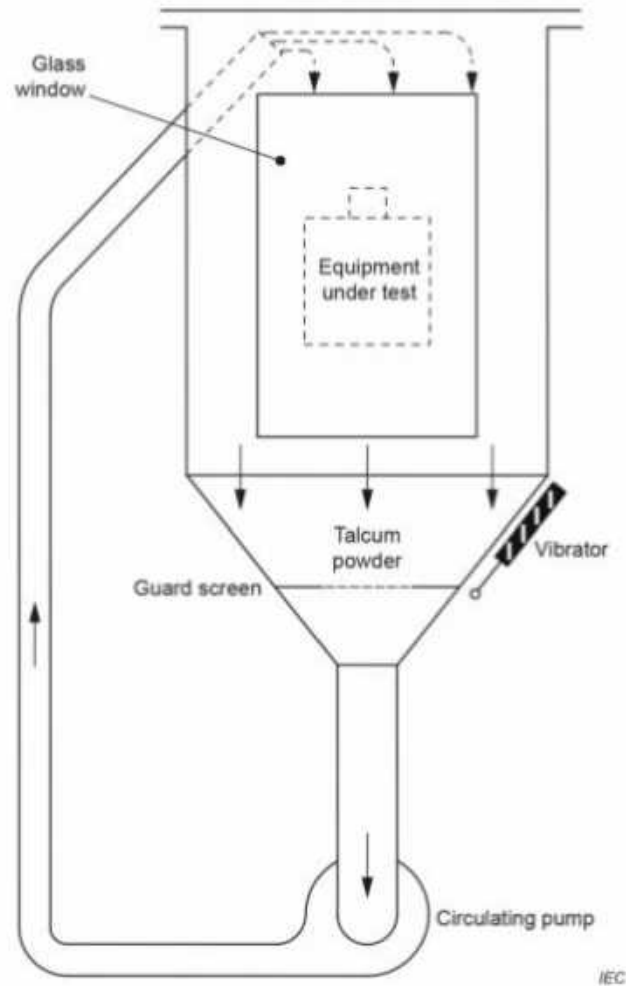


Figure 40 – Apparatus for proving protection against dust

Test Item:

Tests for protection against ingress moisture: IPX6

Test Method:

The tests should be carried out under the standard atmospheric condition.

Temperature range: -40°C to 50°C.

Powerful water jet-proof luminaires (second characteristic IP numeral 6) are switched off and immediately subjected to a water jet for 3 min from all directions by means of a hose having a nozzle with the shape and dimensions shown in Figure 42. The nozzle shall be held 3 m away the sample.

The water pressure at the nozzle shall be adjusted to achieve a water flow rate of 100 l/min $\pm$ 5 % (approximately 100 kN/m²).

Before the tests for the second characteristic numeral, with the exception of IPX8, the luminaire complete with lamp(s) shall be switched on and brought to a stable operating temperature at rated voltage.

The water for the tests shall be at a temperature of 15 °C $\pm$ 10 °C.

Luminaires shall be mounted and wired as in normal use and placed in the most unfavourable position, complete with their protective translucent covers, if any, for the tests of IP.

Where connection is made by a plug or a similar device, then this shall be regarded as part of the complete luminaire and shall be included in the tests and similarly for any separate controlgear.

For tests of IP, fixed luminaire intended for mounting with its body in contact with a surface shall be tested with an expanded metal spacer interposed between the luminaire and the mounting surface.

The spacer shall be at least equal in overall size to the projection of the luminaire, and have dimensions as follows:

Longway of mesh	10 mm to 20 mm
Shortway of mesh	4 mm to 7 mm
Strand width	1,5 mm to 2 mm
Strand thickness	0,3 mm to 0,5 mm
Overall thickness	1,8 mm to 3 mm

Luminaires having provision for draining water by means of drain holes shall be mounted with the lowest drain hole open unless otherwise specified in the manufacturer's installation instructions.

If the installation instructions indicate that a luminaire is for ceiling or under-canopy mounting, the luminaire shall be attached to the underside of a flat board or plate which extends 10 mm beyond that part of the luminaire perimeter in contact with the mounting surface.

For recessed luminaires, the parts in the recess and the parts protruding from the recess shall each be tested according to their IP classification as indicated in the manufacturer's mounting instructions. A box encapsulating the part in the recess may be necessary for the test of IP.

Note: Portable luminaires, wired as in normal use, shall be placed in the most unfavourable position of normal use.

Glands, if any, shall be tightened with a torque equal to two-thirds of that applied to glands in the test of Table 6.

Fixing screws of covers, other than hand-operated fixing screws of glass covers, shall be tightened with a torque equal to two-thirds of that specified in Table 5.

Screwed lids shall be tightened with a torque having a value in newton metres numerically equal to one-tenth of the nominal diameter of the screw thread in millimetres. Screws fixing other caps shall be tightened with a torque equal to two-thirds of that specified in Table 5.

Acceptance Conditions:

After completion of the tests, the luminaire shall withstand the electric strength test specified in Section 12, and inspection shall show:

no trace of water on electrical connections, current carrying parts or on insulation where it could become a hazard for the user or surroundings, for example where it could reduce the creepage distances below the values specified in Section 13; the only exception to this is for SELV conductors where the voltage under load does not exceed 12 V r.m.s. or 30 V ripple free d.c. and the conductors are protected from corrosion.

For luminaires without drain holes, there shall be no water entry.

For luminaires with drain holes, water entry including condensation is allowed during the tests if it can drain out effectively and provided it does not reduce the creepage and clearance distances below the minimum levels specified in the standard

Test Result:

☒ Pass ☐ Fail

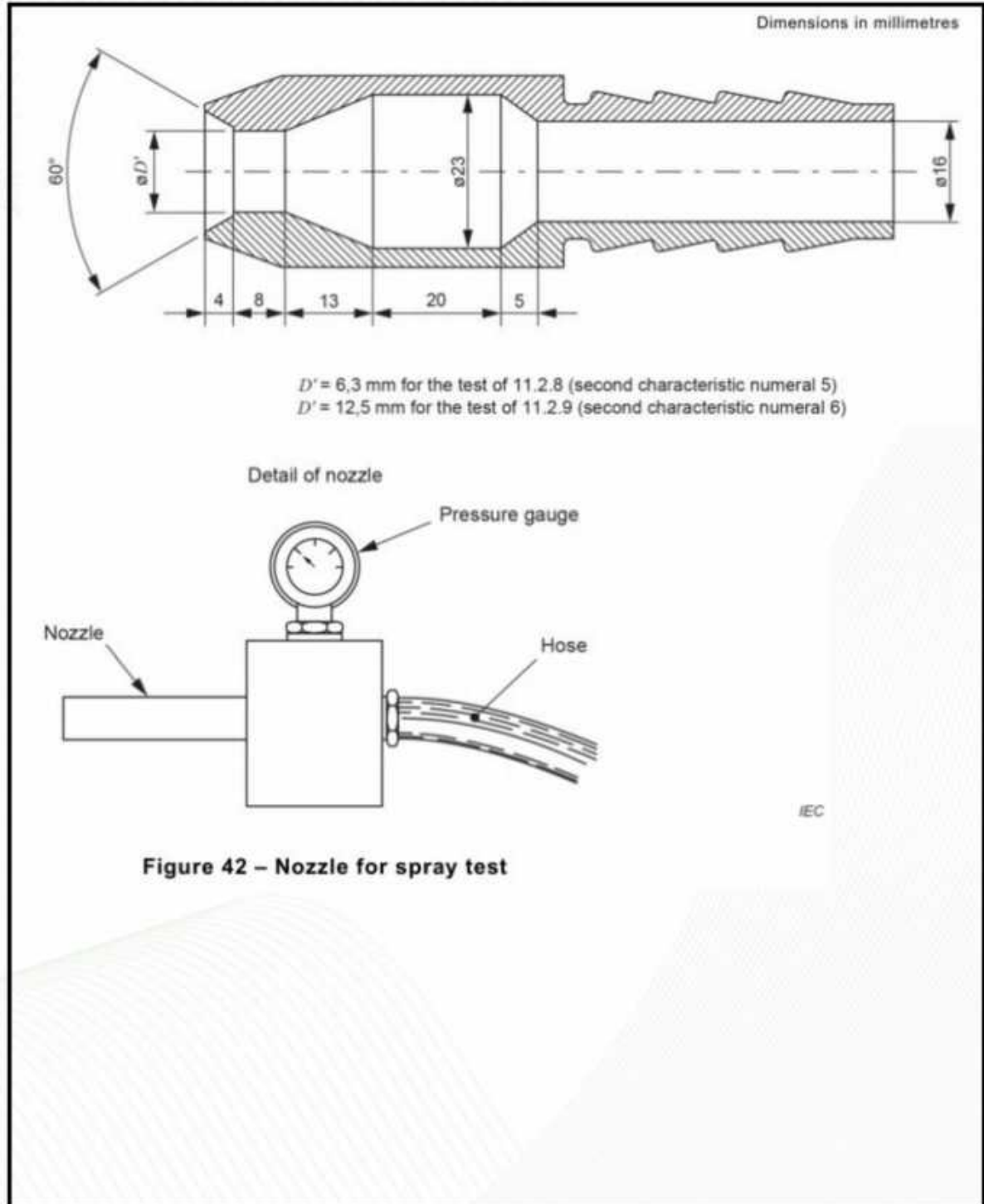


Figure 42 – Nozzle for spray test

Table 5 – Torque tests on screws

Nominal outer thread diameter of screw mm	Torque Nm		
	1	2	3
Up to and including 2,8	0,20	0,40	0,40
Over 2,8 up to and including 3,0	0,25	0,50	0,50
Over 3,0 up to and including 3,2	0,30	0,60	0,50
Over 3,2 up to and including 3,6	0,40	0,80	0,60
Over 3,6 up to and including 4,1	0,70	1,20	0,60
Over 4,1 up to and including 4,7	0,80	1,80	0,90
Over 4,7 up to and including 5,3	0,80	2,00	1,00
Over 5,3 up to and including 6,0	–	2,50	1,25
Over 6,0 up to and including 8,0	–	8,00	4,00
Over 8,0 up to and including 10,0	–	17,00	8,50
Over 10,0 up to and including 12,0	–	29,00	14,50
Over 12,0 up to and including 14,0	–	48,00	24,00
Over 14,0 up to and including 16,0	–	114,00	57,00

Table 6 – Torque tests on cable glands

Diameter of test rod mm	Moment	
	Metal cable glands Nm	Moulded plastic cable glands Nm
Up to 7	4,00	2,5
Over 7 up to 14	6,25	3,25
Over 14 up to 20	7,50	5
Over 20	10	7,50

Withstand the electric strength after IP6X test:

Test Location	Test Voltage	Broken or Flashover
Live parts and accessible parts	2U+1000=1480V	☐ Yes ☒ No

Withstand the electric strength after IPX5 test:

Live parts and accessible parts	2U+1000=1480V	☐ Yes ☒ No
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Photo Documentation:

Photo 1: Overall view of model AS-GS-SP85-18W

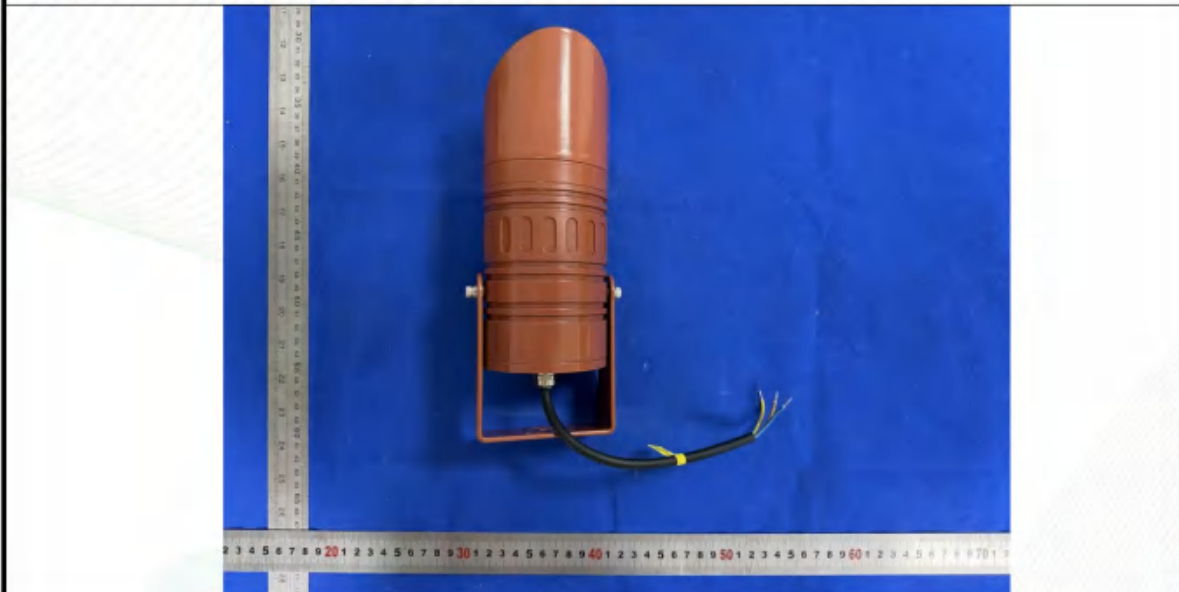


Photo 2: Overall view of model AS-GS-SP85-18W



Photo Documentation:

Photo 3: IP6X test of model AS-GS-SP85-18W



Photo 4: IPX6 test of model AS-GS-SP85-18W



Photo Documentation:

Photo 5: Test result of IP6X and IPX6 test

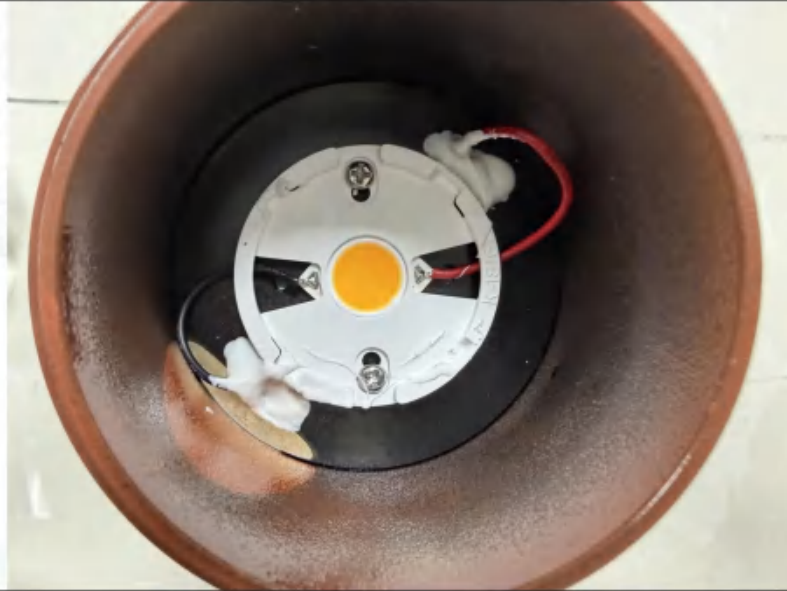


Photo 6: Test result of IP6X and IPX6 test



-----End of Test Report-----