



中国认可
国际互认
检测
TESTING
CNAS L0095

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No WTS2018-5010

TEST REPORT

NAME OF SAMPLE : LED High Bay Light

CLIENT : AGC Lighting Co., Ltd.

CLASSIFICATION
OF TEST : Commission Test

Vkan Certification & Testing Co.,Ltd.



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Name of sample	LED High Bay Light	Trade mark	—
Client	AGC Lighting Co., Ltd.	Client address	Building A, Jian'an Road No.3, Fuyong, Bao'an District, Shenzhen, China
Manufacturer	AGC Lighting Co., Ltd.	Manufacturer address	Building A, Jian'an Road No.3, Fuyong, Bao'an District, Shenzhen, China
Means of receiving	Sending sample	Receiving date	Mar. 28, 2018
Classification of test	Commission Test	Completing date	Apr. 03, 2018
Tested according to	IEC 60529:2013 ISO 20653:2013	Test items	IP6X IPX9K

Test Conclusion:

The test items are performed according to respective relevant standards as required by the client. The test conclusions are listed on page 4.



Approved by:

Reviewed by: Zheng Ziyang

Tested by: Zhang Wangwei

Title: Manager

Title: Project engineer

Signature: *Z.Y. Zhang*

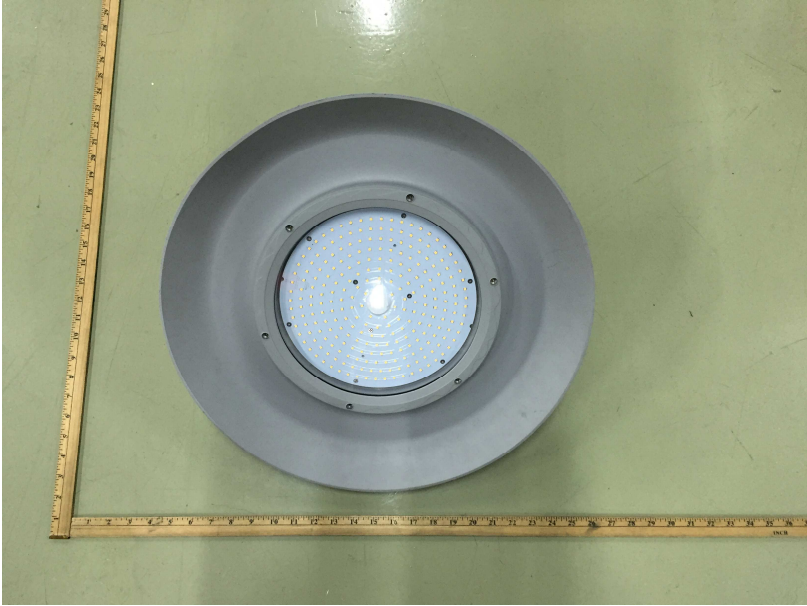
Signature: *Zheng Ziyang*

Signature: *Zhang Wangwei*

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	1 Basic information :								
	Name of sample	Type/Model	Quantity of sample						
	LED High Bay Light	HB06-200	1						
Sample description	2 Sample picture:								
									
Remarks	Fig.1								
	<table border="1"> <thead> <tr> <th>Description of Type/Model</th> <th>Description of differences of the models</th> </tr> </thead> <tbody> <tr> <td>The main test model: HB06-200</td> <td>Power supply and Number of LED</td> </tr> <tr> <td>Cover model: HB06-100 HB06-120 HB06-150 HB06-100/T HB06-120/T HB06-150/T HB06-200/T HB06-100/G HB06-120/G HB06-150/G HB06-100/GT HB06-120/GT HB06-150/GT</td> <td>Power supply and Number of LED</td> </tr> </tbody> </table>			Description of Type/Model	Description of differences of the models	The main test model: HB06-200	Power supply and Number of LED	Cover model: HB06-100 HB06-120 HB06-150 HB06-100/T HB06-120/T HB06-150/T HB06-200/T HB06-100/G HB06-120/G HB06-150/G HB06-100/GT HB06-120/GT HB06-150/GT	Power supply and Number of LED
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<p>In addition to the above, the other main body structure, product dimensions, sealing material, product material are the same.</p>									

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Tests Summary					
№	Name of sample	Test item	Test standard	Judgment	Test details
1	LED High Bay Light	IP6X	IEC 60529:2013	P	Page 5
2		IPX9K	ISO 20653:2013	P	Page 6
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1 Degrees of protection provided by enclosures (IP6X)

1.1 General description

Test according to the standard of IEC 60529:2013 *Degrees of protection provided by enclosures (IP Code)*.

Clause 12 Test for protection against access to hazardous parts indicated by the first characteristic numeral

Object probes: Rigid steel rod 1mm diameter with edges free from burrs. Test force: $1N \pm 0.1N$.

Clause 13.4 Dust test for first characteristic numerals 6

The test is made using a dust chamber. The talcum used shall be able to pass through a square-meshed sieve the nominal wire diameter of which is $50 \mu m$ and the nominal width of a gap between wire $75 \mu m$. The amount of talcum powder to be used is 2kg per cubic meter of the test chamber volume. It shall not have been used for more than 20 tests.

The object of the test is to draw into the enclosure, by means of depressions, a volume of air 80 times the volume of the sample enclosure tested without exceeding the extraction rate of 60 volumes per hour. In no event shall the depression exceed 2kPa (20 mbar) on the manometer

If an extraction rate of 40 to 60 volumes per hour is obtained the duration of the test is 2h.

If with a maximum depression of 2kPa (20 mbar), the extraction rate is less than 40 volumes per hour, the test is continued until 80 volumes have been drawn through, or a period of 8 h has elapsed.

The enclosure shall be deemed category 1, whether reductions in pressure below the atmospheric pressure are present or not.

1.2 Technical requirements

The object probe, sphere of 1mm Φ , shall not penetrate at all and have adequate clearance from hazardous parts.

The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.

1.3 Test results

Name of sample	Sample code	Test result	Judgment
LED High Bay Light	1-1	The probe can't penetrate the enclosure. No deposit of dust is observable inside the enclosure.	P

1.4 Test equipment

№	Type / Model	Equipment name	Next due calibration date
1	SC020B	Dustproof grade testing machine	2018-06-28
2	Φ 1.0mm	Test wire	2018-04-09

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2 Degrees of protection provided by enclosures (IPX9K)

2.1 General description

The test is according to the standard of ISO20653-2013.

The sample is installed on the turntable.

Speed 5 r/min sprays at 0°, 30°, 60°, 90°.

Distance: 150mm.

Water flow rate: 15 L/min.

Water pressure: 9000kPa.

Water temperature :80°C.

Exposure time: 30s per position.

2.2 Technical requirements

Water which is directed against the enclosure from any direction shall not have any detrimental effect

2.3 Test results

Name of sample	Sample code	Test result	Judgment
LED High Bay Light	1-1	After the test, the function of the sample is normal. No water enters the charged part of the sample	P

2.4 Test equipment

No	Type / Model	Equipment name	Next due calibration date
1	KXT1398	Spray waterproof testing machine	2018-06-05

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Important

1. The test report is invalid without the official stamp of CVC;
2. Any photocopies or part photocopies of the test report are forbidden without the written permission from CVC;
3. The test report is invalid without the signatures of Author and Reviewer;
4. The test report is invalid if altered;
5. Objections to the test report must be submitted to CVC within 15 days;
6. Generally, commission test is responsible for the tested samples only;
7. As for the test result, “N” or “—” means “not applicable” , “/ ” means “not testing” , “P” means “pass” , and “F” means “fail”.

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