



Verification of Conformity

Certificate No.: 18ZCTE1128003EC

Applicant : Yangzhou Xintong Transport Equipment Group Co., Ltd.
Address : Yangzhou Xintong Transport Equipment Group Co., Ltd., Guoji Industrial Zone, Songqiao Town, Gaoyou City, Yangzhou City, Jiangsu Province, China
Manufacturer : Yangzhou Xintong Transport Equipment Group Co., Ltd.
Address : Yangzhou Xintong Transport Equipment Group Co., Ltd., Guoji Industrial Zone, Songqiao Town, Gaoyou City, Yangzhou City, Jiangsu Province, China
Product : LED ROAD AND AREA LUMINAIRES
Brand Name : **XINTONG**
Model No. : SH2104:150W
SH2104:140W, SH2104:130W, SH2104:120W, SH2103:100W, SH2103:90W,
SH2103:80W, SH2102:60W, SH2102:50W, SH2102:40W, SH2101:30W,
SH2101:20W

Requirement	Applied Standards	Document Evidence	Result
EMC Directive	2014/30/EU Electromagnetic Compatibility	Test Report: 18ZCTE1128003ER	Conform
EMC Standards	EN 55015:2013/A1:2015 EN 61547:2009 EN 61000-3-2:2014 EN 61000-3-3:2013		



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Shenzhen ZCT Technology Co., Ltd.

3/F., Building 5, Hongsheng Industrial Zone, Bao'an Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China.
☎ : 400-669-6965 ☎ : 86-755-23702323, ✉ : admin@renzhengjiance.com, 🌐 : <http://www.renzhengjiance.com>.



Shenzhen ZCT Technology Co., Ltd.

Report No.: 18ZCTS1128001TR

LED Street Light IK09 TEST REPORT

Report No.: 18ZCTS1128001TR

Trade Name : **XINTONG**

Model Number : SH2104:150W

Prepared for : Yangzhou Xintong Transport Equipment Group Co., Ltd.

Address : Yangzhou Xintong Transport Equipment Group Co., Ltd.,
Guoji Industrial Zone, Songqiao Town, Gaoyou City,
Yangzhou City, Jiangsu Province, China

Test Date: 2018-12-03 to 2018-012-06

Date of Report : 2018-012-06

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Prepared by: Jack Yang

Reviewed by: Jason Wu



Page 1 of 5





Shenzhen ZCT Technology Co., Ltd.

Report No.: 18ZCTS1128001TR

TEST REPORT

IEC 62262:2002

Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)

Testing Laboratory Name	: Shenzhen ZCT Technology Co.,Ltd.
Address	: 3/F., Building 5, Hongsheng Industrial Zone, Bao'an Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China.
Testing location	: Shenzhen ZCT Technology Co.,Ltd.
Applicant's Name	: Yangzhou Xintong Transport Equipment Group Co., Ltd.
Address	: Yangzhou Xintong Transport Equipment Group Co., Ltd., Guoji Industrial Zone, Songqiao Town, Gaoyou City, Yangzhou City, Jiangsu Province, China
Manufacturer	: Yangzhou Xintong Transport Equipment Group Co., Ltd.
Address	: Yangzhou Xintong Transport Equipment Group Co., Ltd., Guoji Industrial Zone, Songqiao Town, Gaoyou City, Yangzhou City, Jiangsu Province, China
Standard.....	: IK09 (IEC 62262:2002)
Test Result	: Pass
	: After the test, there is no damage appearance on the sample.
Procedure deviation	: N/A
Non-standard test method	: N/A
Type of test object	: LED ROAD AND AREA LUMINAIRES
Trademark	: XINTONG
Model/type reference	: SH2104:150W SH2104:140W, SH2104:130W, SH2104:120W, SH2103:100W, SH2103:90W, SH2103:80W, SH2102:60W, SH2102:50W, SH2102:40W, SH2101:30W, SH2101:20W
Description	: Normal

Page 2 of 5



**Test : IK09**Ambient temperature 25°CRelative Humidity 70%RH**1 Testing Equipment:**

Description	Model	No.	Calibration
Falling ball impact tester	SH2104:150W	/	Dec. 15, 2018

2 Test remark & notest:

- (1) Place the sample on the ground, drop the falling-ball which weight is 5Kg to impact the surface of the sample from a height of 400 mm, the impact energy is 20 J.
- (2) Impact 5 points on the mirror surface of the sample each for once.
- (3) Check the sample after the test.





ANNEX : Photo-documentation

Fig.1 Over view

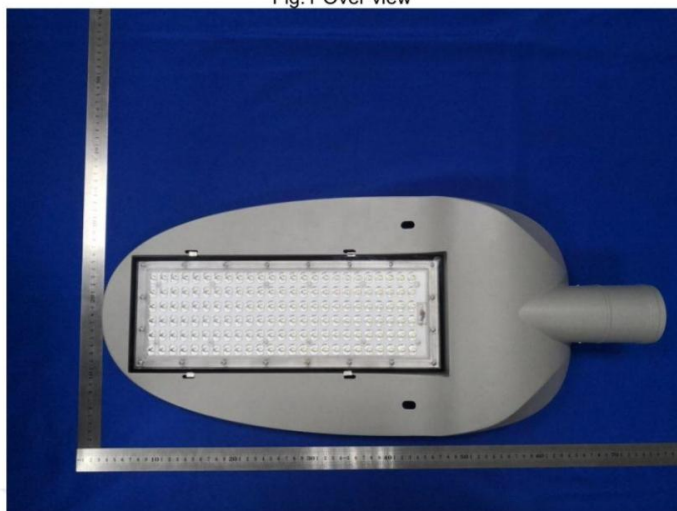


Fig.2 Over view





Fig.3 Lamp view



====End of Report=====





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Requirement	Applied Standards	Document Evidence	Result
LVD Directive	2014/35/EU Low Voltage	Test Report: 18ZCTS1128006LR	Conform
LVD Standards	EN 60598-2-3:2003+A1:2011 EN 60598-1:2015+AC:2016		



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TEST REPORT for NSS Test according to EN ISO 9227: 2012: Corrosion tests in artificial atmospheres – Salt spray tests	
Report Reference No.....	18ZCTS1128002TR
Tested by (printed name and signature).....	Teresa Wu 
Reviewer by (printed name and signature).....	Jason Wu 
Approved by (printed name and signature).....	Tomy Wu 
Date of issue.....	2018-12-06
Total number of pages.....	6 pages
Testing Laboratory Name.....	Shenzhen ZCT Technology Co., Ltd.
Address.....	3/F., Building 5, Hongsheng Industrial Zone, Bao'an Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China.
Applicant.....	Yangzhou Xintong Transport Equipment Group Co., Ltd.
Address.....	Yangzhou Xintong Transport Equipment Group Co., Ltd., Guoji Industrial Zone, Songqiao Town, Gaoyou City, Yangzhou City, Jiangsu Province, China
Manufacturer.....	Same as applicant
Test item description.....	LED ROAD AND AREA LUMINAIRES
Trade Mark.....	
Model/Type reference.....	SH2104:150W SH2104:140W,SH2104:130W,SH2104:120W,SH2103:100W,SH2103:90W,SH2103:80W,SH2102:60W,SH2102:50W,SH2102:40W,SH2101:30W,SH2101:20W
Material.....	Metal coated with black paint, metal screw and metal rivet
Test sample.....	LED ROAD AND AREA LUMINAIRES



General remarks:

The test results presented in this report relate only to the object tested.
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- test conditions does meet the requirement.....:P (Pass)
- test conditions does not meet the requirement.....:F (Fail)

Testing Date:

Date of receipt of test item.....: 2018-10-19
Date (s) of performance of tests.....: 2018-10-19 to 2018-12-06

Testing requirement:**1. Preparation of the sodium chloride solution:**

Dissolve a sufficient mass of sodium chloride in distilled or deionized water with a conductivity not higher than $20 \mu\text{S}/\text{cm}$ at $25 \text{ }^{\circ}\text{C} \pm 2 \text{ }^{\circ}\text{C}$ to produce a concentration of $50 \text{ g/l} \pm 1 \text{ g/l}$. The sodium chloride concentration of the sprayed solution collected shall be $50 \text{ g/l} \pm 1 \text{ g/l}$.

2. Test specimens pre-treatment:

Before testing, the specimens shall be cleaned carefully with a hydrocarbon solvent, but not include the use of any abrasives or solvents which may attack the surface of the specimens

3. NSS test requirement for this standard:

Adjust the pH of the salt solution (3.1) so that the pH of the sprayed solution collected within the test cabinet is 6.5 to 7.2 at $25 \text{ }^{\circ}\text{C} \pm 2 \text{ }^{\circ}\text{C}$. Check the pH using electrometric measurement or in routine checks, with a short-range pH paper, which can be read in increments or 0.3 pH units or less. Make any necessary correction by adding hydrochloric acid, sodium hydroxide or sodium bicarbonate solution of analytical grade.

Possible changes in pH may result from loss of carbon dioxide from the solution when it is sprayed. Such changes may be avoided by reducing the carbon dioxide content of the solution by, for example, heating it to a temperature above $35 \text{ }^{\circ}\text{C}$ before it is placed in the apparatus, or by making the solution using freshly boiled water.



Description of Testing conditions:		P
Sample placed	At an angle 15° to 25° to the vertical.	P
Temperature of test cabinet	35 °C ± 2 °C	P
Concentration of sodium chloride (collected solution)	50 g/l ± 1 g/l	P
Average collection rate for a horizontal collecting area of 80 cm ²	1,5 ml/h ± 0,5 ml/h	P
pH (collected solution)	6,5 to 7,2 for Neutral salt spray (NSS)	P
Duration of tests	1000 hours (according to the requirements of applicant)	P

Treatment of specimens after test:	P
At the end of the test period, remove the test specimens from the cabinet and allow them to dry for 0,5 h to 1 h before rinsing, in order to reduce the risk of removing corrosion products. Before they are examined, carefully remove the residues of spray solution from their surfaces. A suitable method is to rinse or dip the test specimens gently in clean running water, at a temperature not exceeding 40 °C, and then to dry them immediately in a stream of air, at an overpressure not exceeding 200 kPa and at a distance of approximately 300 mm.	P

Test results:	
1) Original appearance for testing specimens	See appendix photos No.1
2) Preparation of the testing specimens	--Using a clean soft brush to clean the specimens with an hydrocarbon --After cleaning, rinse the reference specimens with fresh solvent and then dry them.
3) The time when appeared rust	1. Metal rivet 2. Metal screw (Observed the test result of sample after 48h test)
4) The frequency and number of specimen location permutations	One sample used
5) Appearance after the test	See appendix photos No.2, No.3, No.4 No.5
Note: After the testing, There were a little of rust on the test specimens.	

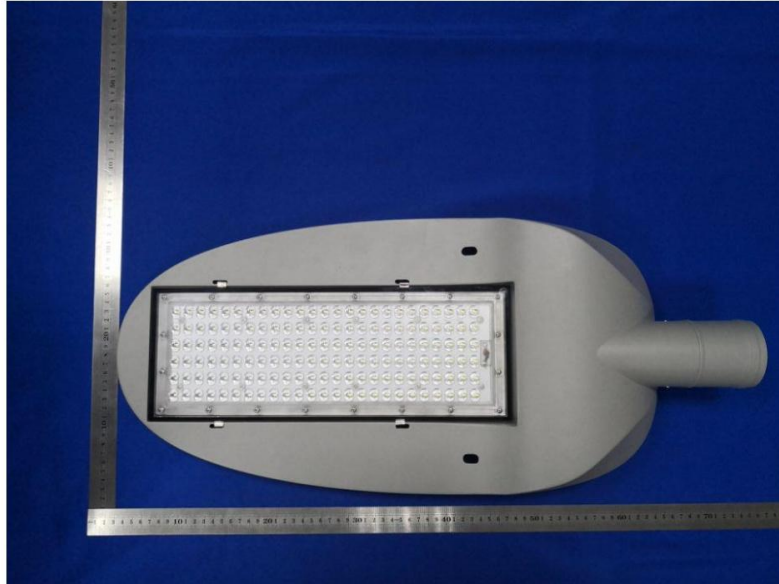


Degree of rusting was evaluated with reference to ISO 10289: 1999

Part of Sample	Degree of Rusting
Metal coated with black paint	10
Metal screw	5
Metal rivet	3

Degree of Rusting	Area of Defects (%)
10	No defects
9	$0 < A < 0.1$
8	$0.1 < A < 0.25$
7	$0.25 < A < 0.5$
6	$0.5 < A < 1.0$
5	$1.0 < A < 2.5$
4	$2.5 < A < 5.0$
3	$5.0 < A < 10$
2	$10 < A < 25$
1	$25 < A < 50$
0	$50 < A$



Appendix for photos:**Photo 1 General appearance of LED ROAD AND AREA LUMINAIRES****Photo 2 General appearance of LED ROAD AND AREA LUMINAIRES**

-----End report-----





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Brand Name : **XINTONG**
Model No. : SH2104:150W
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Shenzhen ZCT Technology Co., Ltd.

Report No.: 18ZCTS1128001TR

LED Street Light IK09 TEST REPORT

Report No.: 18ZCTS1128001TR

Trade Name : **XINTONG**

Model Number : SH2104:150W

Prepared for : Yangzhou Xintong Transport Equipment Group Co., Ltd.

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Test Date: 2018-12-03 to 2018-012-06

Date of Report : 2018-012-06

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Reviewed by: Jason Wu



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Shenzhen ZCT Technology Co., Ltd.

Report No.: 18ZCTS1128001TR

TEST REPORT

IEC 62262:2002

Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)

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Address	: 3/F., Building 5, Hongsheng Industrial Zone, Bao'an Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China.
Testing location	: Shenzhen ZCT Technology Co.,Ltd.
Applicant's Name	: Yangzhou Xintong Transport Equipment Group Co., Ltd.
Address	: Yangzhou Xintong Transport Equipment Group Co., Ltd., Guoji Industrial Zone, Songqiao Town, Gaoyou City, Yangzhou City, Jiangsu Province, China
Manufacturer	: Yangzhou Xintong Transport Equipment Group Co., Ltd.
Address	: Yangzhou Xintong Transport Equipment Group Co., Ltd., Guoji Industrial Zone, Songqiao Town, Gaoyou City, Yangzhou City, Jiangsu Province, China
Standard.....	: IK09 (IEC 62262:2002)
Test Result	: Pass
	: After the test, there is no damage appearance on the sample.
Procedure deviation	: N/A
Non-standard test method	: N/A
Type of test object	: LED ROAD AND AREA LUMINAIRES
Trademark	: XINTONG
Model/type reference	: SH2104:150W SH2104:140W, SH2104:130W, SH2104:120W, SH2103:100W, SH2103:90W, SH2103:80W, SH2102:60W, SH2102:50W, SH2102:40W, SH2101:30W, SH2101:20W
Description	: Normal





Test : IK09

Ambient temperature 25°CRelative Humidity 70%RH

1 Testing Equipment:

Description	Model	No.	Calibration
Falling ball impact tester	SH2104:150W	/	Dec. 15, 2018

2 Test remark & notest:

- (1) Place the sample on the ground, drop the falling-ball which weight is 5Kg to impact the surface of the sample from a hight of 400 mm, the impact energy is 20 J.
- (2) Impact 5 points on the mirror surface of the sample each for once.
- (3) Check the sample after the test.





ANNEX : Photo-documentation

Fig.1 Over view

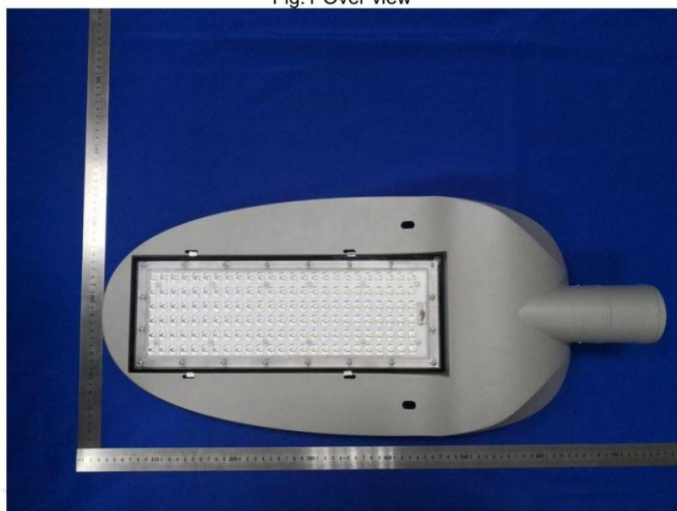


Fig.2 Over view





Fig.3 Lamp view



====End of Report=====





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LVD Directive	2014/35/EU Low Voltage	Test Report: 18ZCTS1128006LR	Conform
LVD Standards	EN 60598-2-3:2003+A1:2011 EN 60598-1:2015+AC:2016		



Remark: This Certification of Conformity has been issued on a voluntary basis. ZCT confirms that a Technical Construction File (TCF) is existent for the above listed product(s). The TCF satisfactorily covers the essential requirements of the above listed Directive(s).

Other relevant Directives have to be observed in case they are applicable.

This Document is only valid for the equipment and configuration described and in conjunction with the TCF detailed above. Whereas the Manufacturer is responsible of the certification of the product(s) and not exempted to perform all the necessary activities before placing the product(s) on the market. The Manufacturer is also responsible of the internal production control to ensure the product(s) are in compliance with the essential requirements of the above mentioned Directive(s).

It is recommended that the product bear the CE mark, the notified body number(s) as depicted to the right, only when all the essential requirements have been met, and has been filed with the European Commission. This certificate can be checked for validity at www.renzhengjiance.com



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Verification of Conformity

Certificate No.: 18ZCTS1128006LC

Applicant : Yangzhou Xintong Transport Equipment Group Co., Ltd.
Address : Yangzhou Xintong Transport Equipment Group Co., Ltd., Guoji Industrial Zone, Songqiao Town, Gaoyou City, Yangzhou City, Jiangsu Province, China
Manufacturer : Yangzhou Xintong Transport Equipment Group Co., Ltd.
Address : Yangzhou Xintong Transport Equipment Group Co., Ltd., Guoji Industrial Zone, Songqiao Town, Gaoyou City, Yangzhou City, Jiangsu Province, China
Product : LED ROAD AND AREA LUMINAIRES
Brand Name : **XINTONG**
Model No. : SH2104:150W
Additional Model NO. : SH2104:140W, SH2104:130W, SH2104:120W, SH2103:100W, SH2103:90W, SH2103:80W, SH2102:60W, SH2102:50W, SH2102:40W, SH2101:30W, SH2101:20W

Requirement	Applied Standards	Document Evidence	Result
LVD Directive	2014/35/EU Low Voltage	Test Report: 18ZCTS1128006LR	Conform
LVD Standards	EN 60598-2-3:2003+A1:2011 EN 60598-1:2015+AC:2016		



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TEST REPORT for NSS Test according to EN ISO 9227: 2012: Corrosion tests in artificial atmospheres – Salt spray tests	
Report Reference No.....	18ZCTS1128002TR
Tested by (printed name and signature).....	Teresa Wu 
Reviewer by (printed name and signature).....	Jason Wu 
Approved by (printed name and signature).....	Tomy Wu 
Date of issue.....	2018-12-06
Total number of pages.....	6 pages
Testing Laboratory Name.....	Shenzhen ZCT Technology Co., Ltd.
Address.....	3/F., Building 5, Hongsheng Industrial Zone, Bao'an Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China.
Applicant.....	Yangzhou Xintong Transport Equipment Group Co., Ltd.
Address.....	Yangzhou Xintong Transport Equipment Group Co., Ltd., Guoji Industrial Zone, Songqiao Town, Gaoyou City, Yangzhou City, Jiangsu Province, China
Manufacturer.....	Same as applicant
Test item description.....	LED ROAD AND AREA LUMINAIRES
Trade Mark.....	
Model/Type reference.....	SH2104:150W SH2104:140W,SH2104:130W,SH2104:120W,SH2103:100W,SH2103:90W,SH2103:80W,SH2102:60W,SH2102:50W,SH2102:40W,SH2101:30W,SH2101:20W
Material.....	Metal coated with black paint, metal screw and metal rivet
Test sample.....	LED ROAD AND AREA LUMINAIRES



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 testing laboratory.

- test conditions does meet the requirement.....:P (Pass)
- test conditions does not meet the requirement.....:F (Fail)

Testing Date:

Date of receipt of test item.....: 2018-10-19
Date (s) of performance of tests.....: 2018-10-19 to 2018-12-06

Testing requirement:**1. Preparation of the sodium chloride solution:**

Dissolve a sufficient mass of sodium chloride in distilled or deionized water with a conductivity not higher than $20 \mu\text{S}/\text{cm}$ at $25 \text{ }^{\circ}\text{C} \pm 2 \text{ }^{\circ}\text{C}$ to produce a concentration of $50 \text{ g/l} \pm 1 \text{ g/l}$. The sodium chloride concentration of the sprayed solution collected shall be $50 \text{ g/l} \pm 1 \text{ g/l}$.

2. Test specimens pre-treatment:

Before testing, the specimens shall be cleaned carefully with a hydrocarbon solvent, but not include the use of any abrasives or solvents which may attack the surface of the specimens

3. NSS test requirement for this standard:

Adjust the pH of the salt solution (3.1) so that the pH of the sprayed solution collected within the test cabinet is 6.5 to 7.2 at $25 \text{ }^{\circ}\text{C} \pm 2 \text{ }^{\circ}\text{C}$. Check the pH using electrometric measurement or in routine checks, with a short-range pH paper, which can be read in increments or 0.3 pH units or less. Make any necessary correction by adding hydrochloric acid, sodium hydroxide or sodium bicarbonate solution of analytical grade.

Possible changes in pH may result from loss of carbon dioxide from the solution when it is sprayed. Such changes may be avoided by reducing the carbon dioxide content of the solution by, for example, heating it to a temperature above $35 \text{ }^{\circ}\text{C}$ before it is placed in the apparatus, or by making the solution using freshly boiled water.



Description of Testing conditions:		P
Sample placed	At an angle 15° to 25° to the vertical.	P
Temperature of test cabinet	35 °C ± 2 °C	P
Concentration of sodium chloride (collected solution)	50 g/l ± 1 g/l	P
Average collection rate for a horizontal collecting area of 80 cm ²	1,5 ml/h ± 0,5 ml/h	P
pH (collected solution)	6,5 to 7,2 for Neutral salt spray (NSS)	P
Duration of tests	1000 hours (according to the requirements of applicant)	P

Treatment of specimens after test:	P
At the end of the test period, remove the test specimens from the cabinet and allow them to dry for 0,5 h to 1 h before rinsing, in order to reduce the risk of removing corrosion products. Before they are examined, carefully remove the residues of spray solution from their surfaces. A suitable method is to rinse or dip the test specimens gently in clean running water, at a temperature not exceeding 40 °C, and then to dry them immediately in a stream of air, at an overpressure not exceeding 200 kPa and at a distance of approximately 300 mm.	P

Test results:	
1) Original appearance for testing specimens	See appendix photos No.1
2) Preparation of the testing specimens	--Using a clean soft brush to clean the specimens with an hydrocarbon --After cleaning, rinse the reference specimens with fresh solvent and then dry them.
3) The time when appeared rust	1. Metal rivet 2. Metal screw (Observed the test result of sample after 48h test)
4) The frequency and number of specimen location permutations	One sample used
5) Appearance after the test	See appendix photos No.2, No.3, No.4 No.5
Note: After the testing, There were a little of rust on the test specimens.	

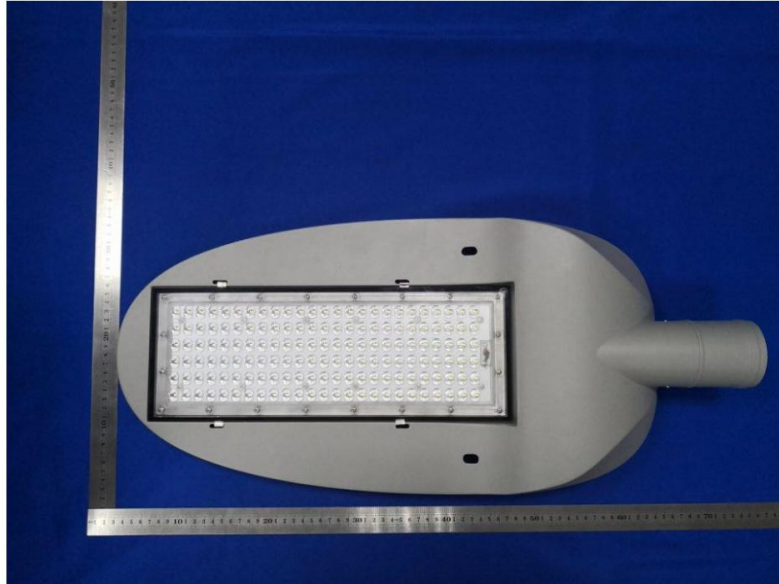


Degree of rusting was evaluated with reference to ISO 10289: 1999

Part of Sample	Degree of Rusting
Metal coated with black paint	10
Metal screw	5
Metal rivet	3

Degree of Rusting	Area of Defects (%)
10	No defects
9	$0 < A < 0.1$
8	$0.1 < A < 0.25$
7	$0.25 < A < 0.5$
6	$0.5 < A < 1.0$
5	$1.0 < A < 2.5$
4	$2.5 < A < 5.0$
3	$5.0 < A < 10$
2	$10 < A < 25$
1	$25 < A < 50$
0	$50 < A$



Appendix for photos:**Photo 1 General appearance of LED ROAD AND AREA LUMINAIRE****Photo 2 General appearance of LED ROAD AND AREA LUMINAIRE**

-----End report-----

