IK08

TEST REPORT

Prepared For :	SHENZHEN HUADIAN LIGHTING CO., LTD Building A,Jinkaijin,Industrial Park ,Shilongzai Private industrial Area,Shiyan, Bao′an,Shenzhen,China
Product Name:	LED Street Light
Model :	See page 2 -Model list
Prepared By :	SHENZHEN HUADIAN LIGHTING CO., LTD Building A,Jinkaijin,Industrial Park ,Shilongzai Private industrial Area,Shiyan, Bao′an,Shenzhen,China
Test Date:	April 27-28,2020
Date of Report :	April 28,2020
Report No.:	TK20200428812-S-IK

Name and address of the testing laboratory : Shenzhen TOKE Technology Co., Ltd.

NO.232，Baoshi Road, Guantian, Baoan District, Shenzhen, Guangdong, China

Prepared by : _____
Engineer

Approved & Authorized Signer : _____
manager

SHENZHEN TOKE TECHNOLOGY CO., LTD TEST REPORT

TEST REPORT

EN 62262:2002

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

Testing Laboratory Name	:	SHENZHEN TOKE-TEST Laboratory Co., Ltd.
Address	:	No.7, Xinshidai Industrial Park, Guantian Village, Shiyan Town,
Testing location	:	Bao'an District, Shenzhen, Guangdong, P.R.C.
Applicant's Name	:	SHENZHEN HUADIAN LIGHTING CO., LTD
Address	:	Building A,Jinkaijin,Industrial Park ,Shilongzai Private industrial Area,Shiyan, Bao′an,Shenzhen,China
Manufacturer …… ……:		SHENZHEN HUADIAN LIGHTING CO., LTD
Address …… …… :		Building A,Jinkaijin,Industrial Park ,Shilongzai Private industrial Area,Shiyan, Bao′an,Shenzhen,China
Standard	:	IK08 (EN 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 Street Light
Trademark ……..:		N/A
Model/type reference ……..:		See -Model list
Description ……..:		Normal
Weight ……..	:	＜10Kg

Model list:

HL-ST03WCYYZOXX, HL-ST04WCYYZOXX, HL-ST05WCYYZOXX, HL-ST06WCYYZOXX, HL-ST07WCYYZOXX, HL-ST075WCYYZOXX, HL-ST08WCYYZOXX, HL-ST088WCYYZOXX, HL-ST09WCYYZOXX, HL-ST10WCYYZOXX, HL-ST11WCYYZOXX, HL-ST12WCYYZOXX, HL-ST135WCYYZOXX, HL-ST15WCYYZOXX, HL-ST155WCYYZOXX HL-ST165WCYYZOXX, HL-ST18WCYYZOXX, HL-ST192WCYYZOXX, HL-STXXXWCYYZOXX

HL-RD03WCYYZOXX, HL-RD04WCYYZOXX, HL-RD05WCYYZOXX, HL-RD06WCYYZOXX, HL-RD07WCYYZOXX, HL-RD08WCYYZOXX, HL-RD09WCYYZOXX, HL-RD10WCYYZOXX, HL-RD11WCYYZOXX, HL-RD12WCYYZOXX, HL-RD15WCYYZOXX, HL-RD18WCYYZOXX, HL-RD20WCYYZOXX, HL-RD22WCYYZOXX, HL-RD24WCYYZOXX, HL-RDXXXWCYYZOXX

Test : IK08

The European standard **EN 62262** — the equivalent of international standard IEC 62262 (2002) — relates to IK ratings. This is an international numeric classification for the degrees of protection provided by enclosures for electrical equipment against external mechanical impacts. It provides a means of specifying the capacity of an enclosure to protect its contents from external impacts. The **IK Code** was originally defined in European Standard BS EN 50102 (2002). Following its adoption as an international standard in 2002, the European standard was renumbered EN 62262.

Before the advent of the IK code, a third numeral had been occasionally added to the closely related IP Code on ingress protection, to indicate the level of impact protection — e.g. IP66(9). Nonstandard use of this system was one of the factors leading to the development of this standard, which uses a separate two numeral code to distinguish it from the old differing systems. The standard came into effect in October 1995 and conflicting national standards had to be withdrawn by April 1997.

EN 62262 specifies the way enclosures should be mounted when tests are carried out, the atmospheric conditions that should prevail, the number of impacts (5) and their (even) distribution, and the size, style, material, dimensions etc. of the various types of hammer designed to produce the energy levels required.

Ambient temperature 30℃ Relative Humidity 70％RH

IK CODE	IK00	IK01	IK02	IK03	IK04	IK05	IK06	IK07	**IK08**	IK09	IK10
Impact energy (joule)	//	0.14	0.2	0.35	0.5	0.7	1	2	**5**	10	20

Impact test characteristics

IK code	**IK00**	**IK01 to IK05**	**IK06**	**IK07**	**IK08**	**IK09**	**IK10**
Impact energy (joules)	*	<1	1	2	**5**	10	20
R mm (radius of striking element)	*	10	10	25	**25**	50	50
Material	*	polyamide[1]	polyamide[2]	steel[2]	**steel[2]**	steel[2]	steel[2]
Mass kg	*	0.2	0.5	0.5	**1.7**	5	5
Pendulum hammer	*	Yes	Yes	Yes	Yes	Yes	Yes
Spring hammer	*	Yes	Yes	Yes	No	No	No
Free fall hammer	*	No	No	Yes	Yes	Yes	Yes

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1 Testing Equipment:

Description	Model	No.	Calibration
Falling ball impact tester	HL-ST192WCYYZOXX	/	2020.04.28

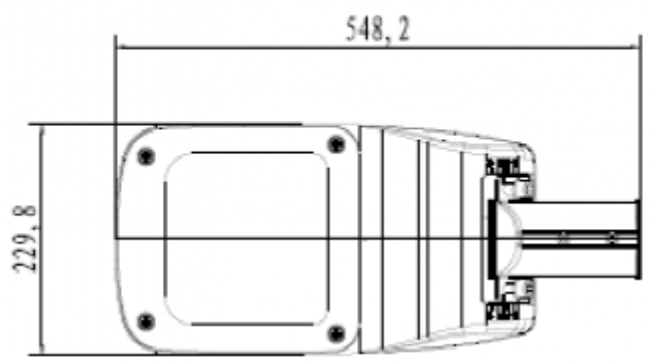
2 Test remark & notes:

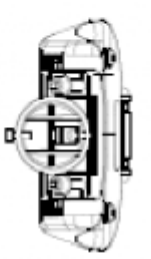
(1) Place the sample on the ground, drop the falling-ball which weight is 5Kg to impact the surface of the sample from a hight of 400 mm, the impact energy is 5J.
(2) Impact 5 points on the mirror surface of the sample each for once.
(3) Check the sample after the test.

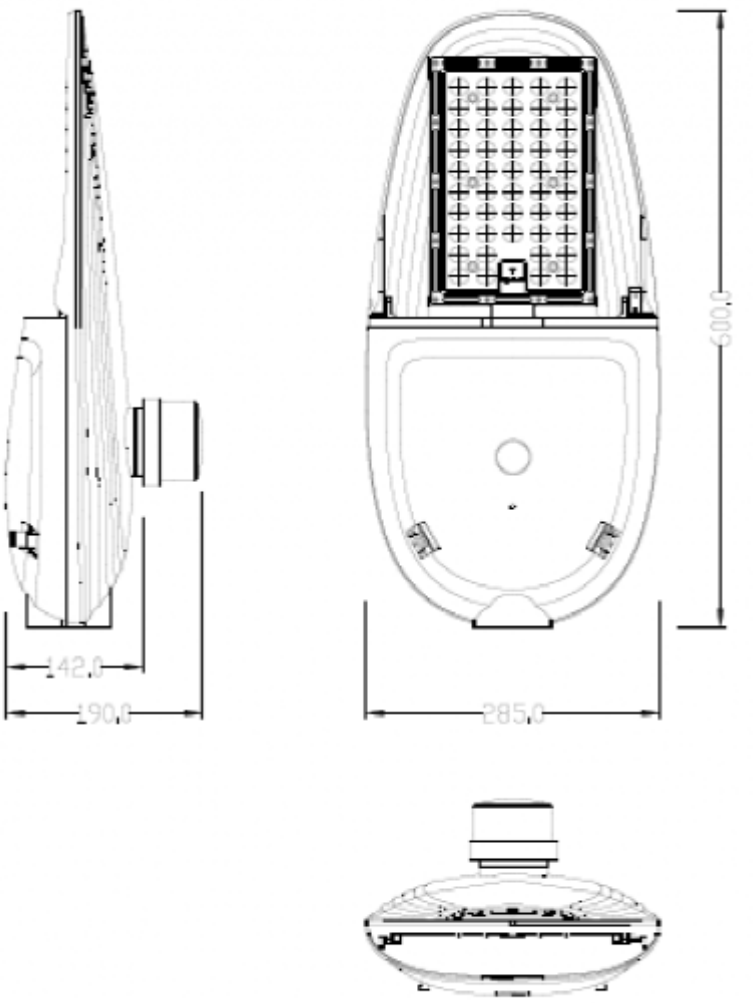
3. Shape Structure

Shell Material：Aluminum Alloy Shell Color：hoar/Black
Net Weight：＜50Kg

`Unit：mm ±2mm



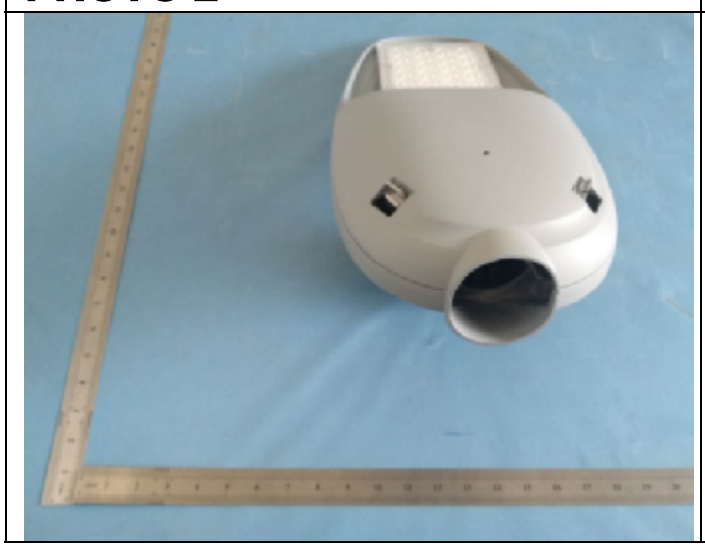
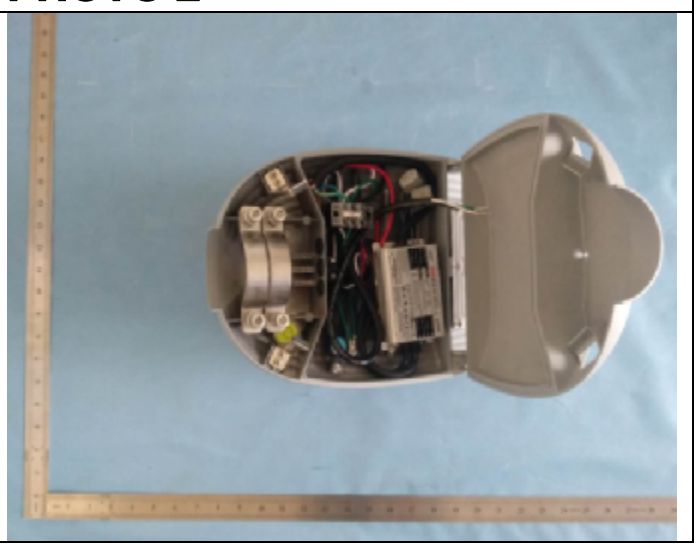




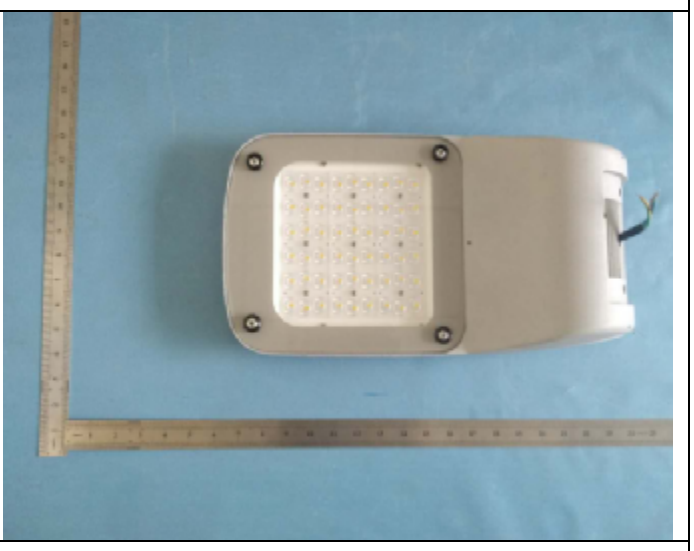
4. Conclusion

PASS

APPENDIX
PHOTOGRAPHS OF EUT

PHOTO 1	PHOTO 1
	
PHOTO 2	**PHOTO 2**
	

APPENDIX
PHOTOGRAPHS OF EUT

PHOTO 3	PHOTO 3
	
PHOTO 4	**PHOTO 4**
	

----------END THE REPROT----------

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
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9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report fora period of ten years. The data and information will be disposed of after the aforementioned retention period has elapsed.Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits,lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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