

# IK TEST REPORT

REPORT NO. : STD180833NB-IK



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<b>TEST REPORT</b> <b>IEC 62262</b> <b>Degrees of protection provided by enclosures</b> <b>for electrical equipment against external mechanical impacts</b> <b>(IK code)</b>	
Report Reference No. .... :	STD180833NB-IK
Date of issue ..... :	2018-08-15
Total number of pages ..... :	5
<b>Testing Laboratory</b> ..... :	Standard-Tech Co., Ltd
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<b>Manufacturer's name</b> ..... :	Suzhou RUNLUX Electric Ltd.
Address ..... :	No.9 Dongtinghu Road, Kunshan Economic & Technological Development Zone, Kunshan City, Jiangsu, 215300, China
<b>Factory's name</b> ..... :	Suzhou RUNLUX Electric Ltd.
Address ..... :	No.9 Dongtinghu Road, Kunshan Economic & Technological Development Zone, Kunshan City, Jiangsu, 215300, China
<b>Test specification:</b>	
Standard ..... :	IEC 62262:2002; IEC 60598-2-1:1979; IEC 60598-1:2014+A1:2017.
Test item description ..... :	LED Vapor Tight Linear Fixture
Trade Mark ..... :	/
Model/Type reference ..... :	R2-4VT*zzW####yyy-xxK
Test Model:..... :	R2-4VTM36WDHV1-40K 120-347Vac 50/60Hz 36W
Ratings ..... :	See "General product information" on page 2
<b>List of Attachments (including a total number of pages in each attachment):</b>	
1. Attachment 1: Photos (see page 5).	

<b>Summary of testing:</b>	
<b>Tests performed (name of test and test clause):</b>	<b>Testing location:</b>
IK10 test is carried out on R2-4VTM36WDHV1-40K	Standard-Tech Building, No. 6 Guanhong Road, Guangzhou Science City, Guangzhou 510663, CHINA
<b>Summary of compliance with National Differences:</b>	
N/A	
<b>Copy of marking plate</b>	
The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective CBs that own these marks.	
/	
<b>Possible test case verdicts:</b>	
- 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)	
<b>Testing</b> ..... :	
Date of receipt of test item .....	: 2018-08-13
Date (s) of performance of tests .....	: 2018-08-15
<b>General remarks:</b>	
<p>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 Issuing testing laboratory.          "(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 type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.          Clause numbers between brackets refer to clauses in IEC 60598-1</p>	
<b>General product information:</b>	
<p>This IK10 test report covers following models which have the same enclosure material and construction.</p> <p>R2-4VT*zzW####yyy-xxK:          (*: denotes the type of diffuser; zz: power; ####: may be any alphanumeric character or blank, the first #=D: dimmable, if blank denotes nondimmable, the following ### denotes the driver input voltage, if blank denotes 120-277V; yyy: may be any alphanumeric character or blank denotes the series number; xx: CCT)</p>	

IEC 62262			
Clause	Requirement + Test	Result - Remark	Verdict
<b>4</b>	<b>Designations</b>		<b>P</b>
4.1	Arrangement of the IK code	IK10	P
4.2	Characteristic group numerals of the IK code and their meanings	IK10: 20J (see table 1)	P
4.3	Application of the IK code	Applies to: <input checked="" type="checkbox"/> complete enclosure <input type="checkbox"/> parts of the enclosure	P
4.4	Marking	Detailed in IEC 60598-2-1 and IEC 60598-1	N/A

<b>5</b>	<b>General requirements for tests</b>		<b>P</b>
5.1	Atmospheric conditions for tests		P
	– temperature range:15 °C to 35 °C		P
	– air pressure:86 kPa to 106 kPa		P
5.2	Enclosures under test		P
5.3	Specifications given in the product standard		P
	–the definition of "enclosure"		P
	–the test equipment	Pendulum hammer	P
	–the number of samples	1	P
	–the conditions for mounting, assembling and positioning the samples	Specified in IEC 60598-2-1	P
	–the pre-conditioning	Specified in IEC 60598-1	P
	–to be tested energised;		N/A
	–to be tested with any moving parts in motion		N/A
	–the number of impacts and their points		P
	In the absence of such specifications in the relevant product standard, the conditions of this standard shall apply		P

<b>6</b>	<b>Test to verify the protection against mechanical impacts</b>		<b>P</b>
6.1	Type test		P
6.2	Apply blows to the enclosure to be tested		P
6.3	Mounting and support	Specified in IEC 60598-2-1	P
6.4	The number of impacts on each exposed face	5	P
	Evenly distribute the impacts		P
6.5	Test evaluation		P
<b>7</b>	<b>Test apparatus</b>		<b>P</b>
	Use test apparatus in IEC 60068-2-75.	20J (figure A.5)	P

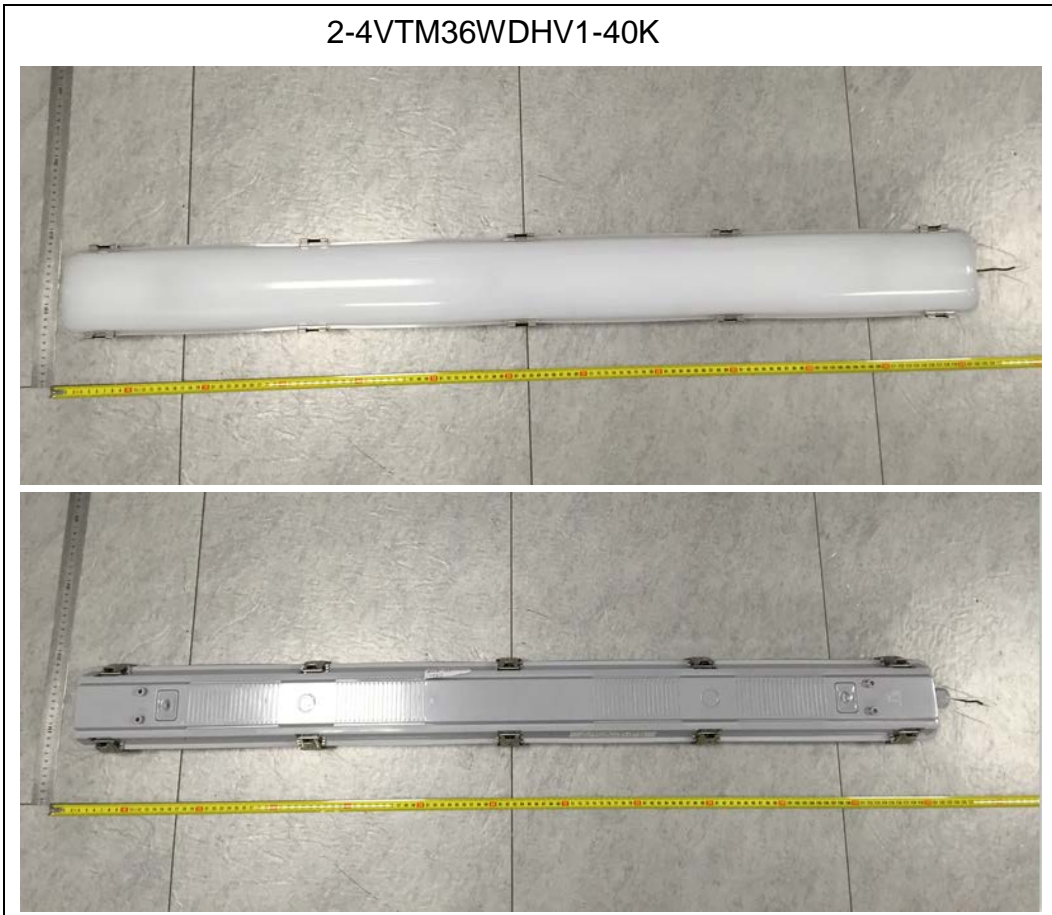
IEC 62262			
Clause	Requirement + Test	Result - Remark	Verdict
	Types of test apparatus	Pendulum hammer	P

**Table 1 – Relation between IK code and impact energy**

IK code	IK00	IK01	IK02	IK03	IK04	IK05	IK06	IK07	IK08	IK09	IK10
Impact energy, J	*	0,14	0,2	0,35	0,5	0,7	1	2	5	10	20
* Not protected according to this standard.											
NOTE 1 When higher impact energy is required, the value of 50 J is recommended.											
NOTE 2 A characteristic group numeral of two figures has been chosen to avoid confusion with some national standards which used a single numeral for a specific impact energy.											

**Attachment 1 – Photo**

2-4VTM36WDHV1-40K



# STATEMENT

1. Without the written authorization from the laboratory, this test report should not be partially duplicated, unless the whole test report being copied as an entire document.
2. The test report is only valid to the tested sample.
3. If you have any objections on this testing result, please submit a written complain to the laboratory within 10 days after you received this test report.
4. The tested samples must be reclaimed within 60 days after you received this test report, otherwise, the laboratory will dispose them itself.
5. This test report is for applicant's reference only, not for complains or arbitrations as in accordance with.

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