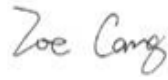
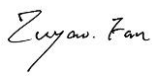




<b>TEST REPORT</b> <b>IEC/EN 62493</b> <b>Assessment of lighting equipment related to human exposure to electromagnetic fields</b>	
<b>Report Number</b> .....	6038275.10 V1.1
Date of issue.....	2018-10-24
Total number of pages .....	5
<b>Testing Laboratory</b> .....	DEKRA Testing and Certification (Shanghai) Ltd.
Address .....	3 F., No. 250 Jiangchangsan Road, Zhabei District, Shanghai City, 200436, China
<b>Applicant's name</b> .....	elho B.V.
Address .....	Atlasstraat 11 5047RG Tilburg The Netherlands
<b>Test specification:</b>	
Standard .....	EN 62493: 2010 & EN 62493: 2015
Test procedure .....	Type Test
Non-standard test method.....	N/A
<b>Test Report Form No.</b> .....	IEC62493A
Test Report Form(s) Originator .....	Intertek Semko AB
Master TRF.....	2011-04
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Test item description .....	LED Luminaries
Trade Mark .....	elho®
Manufacturer .....	Ningbo UTEC Electric Co., Ltd
Address .....	CN8, Far-east Industry Park, Yuyao City, 315400, ZHEJIANG
Model/Type reference .....	1711900130400, 1711900141900
Ratings .....	Luminaire: 12 Vdc, 0.33 A, max 3.5 W, Class III Adaptor: PRI: 100-240V~; 50/60Hz ;max 0.35A, Class II SEC: 12 Vdc, max 1A, max12W, SELV

Testing procedure and testing location:	
<input checked="" type="checkbox"/> <b>Testing Laboratory</b> ..... : Testing location/ address ..... :	DEKRA Testing and Certification (Shanghai) Ltd. 3 F., No. 250 Jiangchangsan Road, Zhabei District, Shanghai City, 200436, China
<input type="checkbox"/> <b>Associated Test Laboratory</b> ..... : Testing location/ address ..... :  Tested by (name + signature) ..... :  Approved by (name + signature).. :	Zoe Cang    Zuyao Fan  

**List of Attachments (including a total number of pages in each attachment):**

N/A

**Summary of testing:**
**Tests performed (name of test and test clause):**
**Clause 4.2**
**Conducted Emission on AC (20 kHz to 30 MHz)**
**Radiated Electromagnetic Disturbances (100 kHz to 30 MHz)**
**Radiated Electromagnetic Disturbances (30 MHz to 300 MHz)**
**Induced currents density (20 kHz to 10 MHz)**

All tests have been done on DEKRA Testing and Certification (Shanghai) Ltd., except for the Radiated Electromagnetic Disturbances (30 MHz to 300 MHz) test subcontracted at **DEKRA Testing and Certification (Suzhou) Co., Ltd.**

**Testing location:**

DEKRA Testing and Certification (Shanghai) Ltd.

1 F., No. 250 Jiangchangsan Road, Zhabei District, Shanghai City, 200436, China

DEKRA Testing and Certification (Suzhou) Co., Ltd.

No. 99, Hongye Road, Suzhou Industrial Park, Suzhou, 215006, P. R. China.

**Summary of compliance with National Differences**

List of countries addressed:

Not checked

 The product fulfils the requirements of EN 62493: 2010 & EN 62493: 2015.

**Copy of marking plate**

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

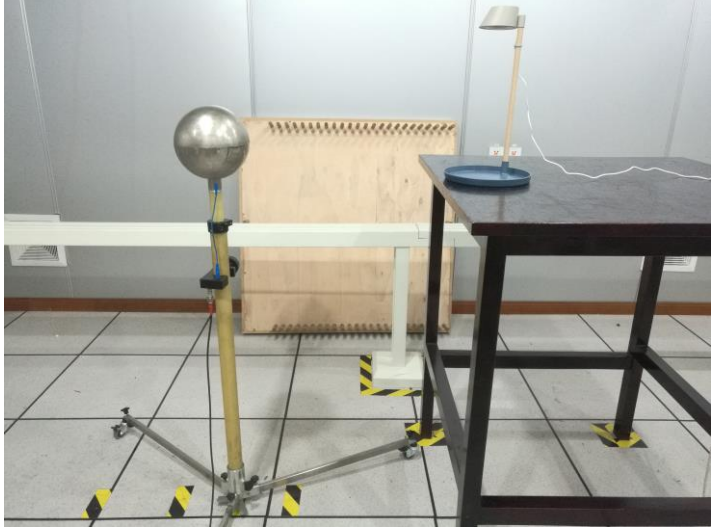
N/A

<b>Test item particulars</b> .....:	--
Classification of installation and use .....	--
Supply Connection .....	--
.....:	--
<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 .....	2018-09
Date (s) of performance of tests.....:	2018-09
<b>General remarks:</b>	
<p>The test results presented in this report relate only to the object tested.</p> <p>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p> <p>"(see Enclosure #)" refers to additional information appended to the report.</p> <p>"(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator.</p>	
<b>Manufacturer's Declaration per sub-clause 6.2.5 of IEC60335-1:</b>	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	
<b>Name and address of factory (ies)</b> .....	Ningbo UTEC Electric Co., Ltd CN8, Far-east Industry Park, Yuyao City, 315400, ZHEJIANG
<b>General product information:</b>	
<p>The apparatus as supplied for the tests is LED Luminaries, all models intended for residential use. This product has electronic control unit but no earth connection.</p> <p>According to the declaration from manufacturer, all the products have same construction except the model name and appearance different.</p> <p>Due to the similarity between them, model 1711900130400 was selected for the full test and the results are also representative for other models as well.</p>	

4.2	APPLICATION OF LIMITS (Test summary)		P
	<b>Specific absorption rate (SAR)</b>		P
a)	CISPR 15 clause 4.3.1 Disturbance voltage mains terminals 20 kHz – 30 MHz	*)	P
b)	CISPR 15 clause 4.4 Radiated electromagnetic disturbances 100 kHz – 30 MHz	*)	P
c)	CISPR 15 clause 4.4.2 Radiated electromagnetic disturbances 30 MHz – 300 MHz	*)	P
*)	<input checked="" type="checkbox"/> See separate Test Report for measurements of a), b) and c) above Test Report with Ref. No.: 6038275.50 <input checked="" type="checkbox"/> Only measurement of d) below. See measurement results below. In this case this test report does not show compliance with IEC 62493.		—
	<b>Induced current density</b>		P
d)	Induced current density 20 kHz – 10 MHz	See measurement results below	P

4.2.d	INDUCED CURRENT DENSITY		P
	Power supply system utilised:		—
	Voltage .....	: 230 Vac	—
	Frequency.....	: 50 Hz	—
	Environmental conditions:		—
	Temperature .....	: 22°C	—
	Humidity.....	: 45%	—
	EuT operation mode:		—
	<input checked="" type="checkbox"/> Normal operation		—
	<input type="checkbox"/> Other operation:		—
			—

4.2.d		MEASUREMENT RESULTS			P
		Measuring with "Van der Hoofden" test head			P
Location of EuT	Measuring distance	Result (F)	Limit (F)	Verdict	
On the table	50 cm	0.0078	0,85 or 1,0	P	
Supplementary information: N/A					

4.2.d		EQUIPMENT USED DURING TEST		
Equipment	Manufacturer	Type	Id. No.	
"Van der Hoofden" test head	SCHWARZBECK	VDHH9502	9502-075	
Measurement receiver	ROHDE&SCHWARZ	ESCI	101351	
Test set-up, photos				
				

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