



<b>TEST REPORT</b> <b>IEC 62493</b> <b>Assessment of lighting equipment related to human exposure to electromagnetic fields</b>	
<b>Report Number.</b> .....	AOC251010010S
<b>Date of issue</b> .....	2025-10-15
<b>Total number of pages</b> .....	9 pages
<b>Name of Testing Laboratory preparing the Report</b> .....	Shenzhen AOCE Electronic Technology Service Co., Ltd Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China
<b>Applicant's name</b> .....	Limited Liability Company «Energoresursy» (LLC «Energoresursy»)
<b>Address</b> .....	RF, 198205, St.Peterburg, sh.Tallinskoe (Staro-Panovo ter.), no. 198, bldg.. 2, lit. Ah, pom. 1-N, office 1
<b>Test specification:</b>	
<b>Standard</b> .....	IEC 62493 (ed.2)
<b>Test procedure</b> .....	Type testing
<b>Non-standard test method</b> .....	N/A
<b>Test Report Form No.</b> .....	IEC62493B
<b>Test Report Form(s) Originator</b> .....	Intertek Semko AB
<b>Master TRF</b> .....	2016-04
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<b>Test item description .....</b>	Luminaire	
<b>Trade Mark .....</b>	N/A	
<b>Manufacturer .....</b>	JIANGMEN LANGJIE TRADING CO., LTD ROOM 407, 11 BUILDING YINGCUI, ZHONGTIANGUOJI GARDEN, JIANGMEN, GUANGDONG, CHINA	
<b>Model/Type reference.....</b>	LINERAYS HL01-1200-160-002	
<b>Ratings.....</b>	220-240 V~, 50/60 Hz, 160 W, Class II, IP 40, ta:55 °C	
<b>Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):</b>		
<input checked="" type="checkbox"/>	<b>Testing Laboratory:</b>	Shenzhen AOCE Electronic Technology Service Co., Ltd
<b>Testing location/ address .....</b>		Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China
<b>Tested by (name, function, signature) .....</b>		ZhiCong Xian Technical Engineer <i>ZhiCong Xian</i>
<b>Approved by (name, function, signature) ..</b>		Robin Lin Technical Manager <i>Robin Lin</i>
<b>Testing procedure: CTF Stage 1:</b>		
<input type="checkbox"/>	<b>Testing location/ address .....</b>	N/A
<b>Testing location/ address .....</b>		
<b>Tested by (name, function, signature) .....</b>		
<b>Approved by (name, function, signature) ..</b>		
<b>Testing procedure: CTF Stage 2:</b>		
<input type="checkbox"/>	<b>Testing location/ address .....</b>	N/A
<b>Testing location/ address .....</b>		
<b>Tested by (name + signature).....</b>		
<b>Witnessed by (name, function, signature) .</b>		
<b>Approved by (name, function, signature) ..</b>		
<b>Testing procedure: CTF Stage 3:</b>		
<input type="checkbox"/>	<b>Testing location/ address .....</b>	N/A
<input type="checkbox"/>	<b>Testing location/ address .....</b>	N/A
<b>Testing location/ address .....</b>		
<b>Tested by (name, function, signature) .....</b>		
<b>Witnessed by (name, function, signature) .</b>		
<b>Approved by (name, function, signature) ..</b>		
<b>Supervised by (name, function, signature) :</b>		

Tel: (86)755-85277785

Fax: (86)755-23705230

E-mail: [postmaster@aac-cert.com](mailto:postmaster@aac-cert.com)Website: <http://www.aac-cert.com>

TRF No. IEC62493B

<b>List of Attachments (including a total number of pages in each attachment):</b> <b>Attachment No.1:</b> Photo document.	
<b>Summary of testing:</b>	
<b>Tests performed (name of test and test clause):</b> - Full tests are carried out on LINERAYS HL01-1200-160-002	<b>Testing location:</b> Shenzhen AOCE Electronic Technology Service Co., Ltd Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China
<b>Summary of compliance with National Differences (List of countries addressed):</b>  N/A	

**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.



Test item particulars..... :	
Classification of installation and use..... : Fixed Luminaire SPO	
Supply Connection ..... : Supply cords	
..... :	
Possible test case verdicts:	
- 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)	
Testing..... :	
Date of receipt of test item ..... : 2025-09-23	
Date (s) of performance of tests ..... : 2025-09-23 to 2025-10-15	
General remarks:	
<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 type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator.</p>	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60598-2-13:	
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.	
Name and address of factory (ies) ..... : Same as manufacturer	

General product information:		
Description of the EUT .....	√	Luminaire SPO
		Self-ballasted lamp
		Built-in electronic control gear
		Independent electronic control gear
		Others:
Control Gear .....		Magnetic control gear / transformer
	√	Electronic control gear
		Others:
Lamp technology used .....		Fluorescent lamp
		High pressure discharge lamp (HID)
	√	Light emitting diode (LED)
		Tungsten halogen lamp
		Incandescent lamp
		Others:
Model Number .....	LINERAYS HL01-1200-160-002	
Brand .....		
Rated Voltage/Frequency .....	√	AC: 50/60 Hz
		DC:
		AC/DC:
Rated Power .....	160 W	
Protection Class .....	-	
Number of phases .....	Single	
Accessories .....	-	

IEC 62493			
Clause	Requirement + Test	Result - Remark	Verdict
<b>4</b>	<b>LIMITS</b>		-
<b>4.1</b>	<b>General</b>		P
	Comply with Van der Hoofden test limit in 4.2.3 or inherently compliant in 4.2.2 and pass assessment procedure for intentional radiators in 4.3		P
<b>4.2</b>	<b>Unintentional radiating part of lighting equipment</b>		P
4.2.2	Lighting equipment deemed to comply with the Van der Hoofden test without testing		P
	1) electronic controlgear	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	—
	2) incandescent-lamp technology	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—
	3) LED-light-source technology	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	—
	4) OLED-light-source technology	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—
	5) high-pressure discharge lamp LED-light-source technologies	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—
	6) low-pressure discharge lamp technologies with exposure distance $\geq 50$ cm	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—
	7) independent auxiliary	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—
	Not fulfil any of 1-7 above subject to 4.2.3		—
4.2.3	Applications of limits		P
	Not fulfil any of 1-7 in 4.2.2 but the compliance factor $F$ is $\leq 1$		P
<b>4.3</b>	<b>Intentional radiating part of lighting equipment</b>		-
	Comply with one of methods in Clause 7 if intentional radiator		N/A

<b>5</b>	<b>GENERAL</b>		-
<b>5.1</b>	<b>Measurand</b>		P
	Test head, measuring instrumentation and measuring conditions according Clause 5.1 – 5.8	0.002 %	P

<b>6</b>	<b>MEASUREMENT PROCEDURE FOR THE VAN DER HOOFDEN TEST</b>		-
<b>6.1</b>	<b>General</b>		N/A
	Measurements carried out under conditions according Clause 6.1 – 6.6	See Table 6	N/A

<b>7</b>	<b>ASSESSMENT PROCEDURE INTENTIONAL RADIATORS</b>		-
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IEC 62493			
Clause	Requirement + Test	Result - Remark	Verdict
<b>7.2</b>	<b>Low-power exclusion method</b>		<b>P</b>
7.2.1	Input $P_{\text{int,rad}}$ .....:		—
	Exclusion level $P_{\text{max}}$ .....:		—
	Input power $P_{\text{int,rad}} < \text{exclusion level } P_{\text{max}}$		N/A
<b>7.3</b>	<b>Application of the EMF product standard for body worn-equipment</b>		N/A
	If not Clause 7.2 is met and expose distance $\leq 0.05$ m, comply with IEC 62209-2		N/A
<b>7.4</b>	<b>Application of the EMF product standard for base stations</b>		N/A
	If not Clause 7.2 is met and if intentional radiator is base station, comply with IEC 62232		N/A
<b>7.5</b>	<b>Application of another EMF standard</b>		N/A
	If not Clause 7.2 is met and if intentional radiator cannot be considered as in Clause 7.3 or 7.4, comply with IEC 62311		N/A

<b>6</b>	<b>TABLE: Measurement results with Van der Hoofden test head</b>				N/A
Location of EuT		Measuring distance	Result (F)	Limit (F)	Verdict
-		-	-	-	-

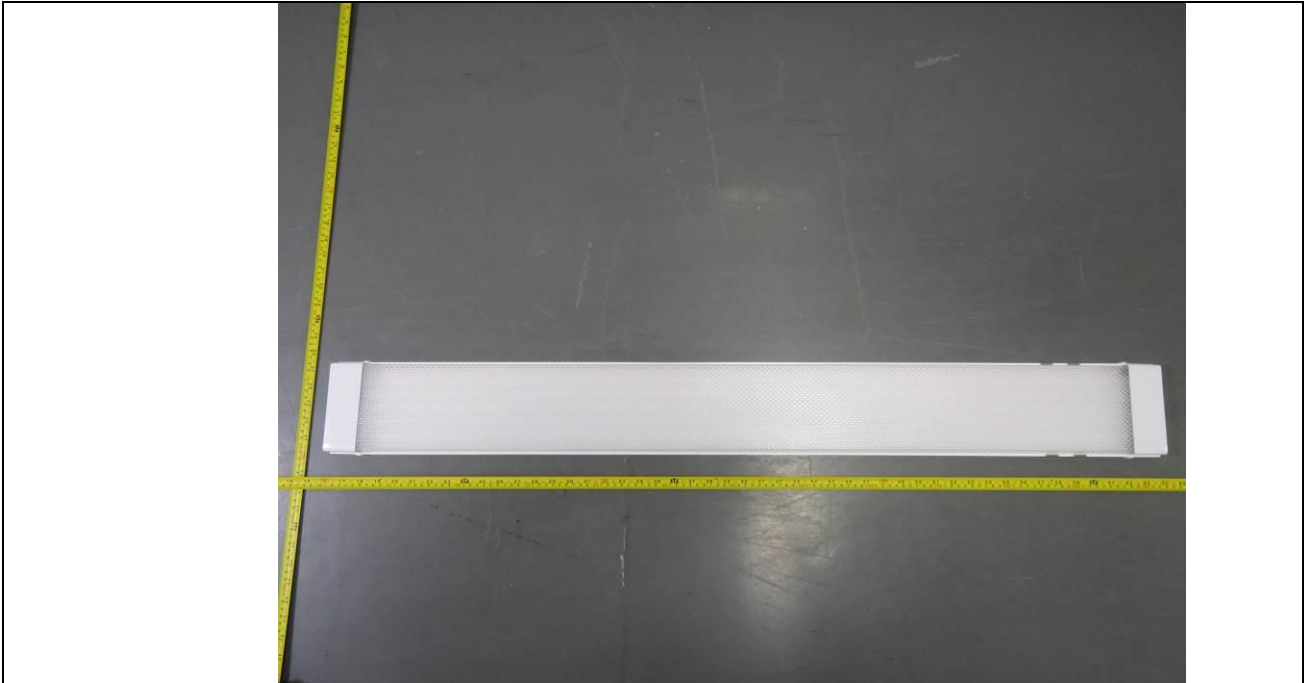
<b>6</b>	<b>TABLE: Equipment used during test with Van der Hoofden test head</b>			
Equipment	Manufacturer	Type	Id. No.	
Van der Hoofden test head	-	-	-	
Measurement receiver	-	-	-	



**Attachment No.1**

**Product Photos**

Details of: Overall view (model: LINERAYS HL01-1200-160-002 )



----- End of test report -----