Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District,

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Sunny Su

File administrators

Report No.:AOC251030024R-R1

TEST REPORT

Client company	:	Shenzhen Huadian Lig	ghting Co.,Ltd	
Client address	:		ojia Industrial Park, No. 1 Hua ubdistrict, Longhua District, \$	
Manufacturer	:	Shenzhen Huadian Lig	ghting Co.,Ltd	
Address	:		ojia Industrial Park, No. 1 Hua ubdistrict, Longhua District, \$	
Report on the submitted	sa	mples said to be:		
Sample Name	:	LED High Mast Roadw	ay and Area lighting	
Trade Mark	:	N/A		
Style/ Item No.	:	See Model List		
Sample Receiving Date	:	October 23, 2025		
Testing Period	:	October 23, 2025 ~ Oc	tober 30, 2025	
Results	:	Please refer to next pa	nge(s).	
Summary of Test Results	*** S:	**********	*************	***********
TEST REQUEST				CONCLUSION
A RoHS Directive (EU) 2(017/2102 amending Anr	nex II to Directive 2011/65/EU.	POSITIVE
******	***	********	***********	***********
Signed for and on behalf of	f A	OCE		
Written By:		Sunny Su	Approved by	Alice zhou

Alice Zhou

Manager

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Results:

A. EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Test method: With reference to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq.	Tooted Davido)	Results						
No.	Tested Part(s)	Pb	Cd	Hg	Cr	Br		
1	Grey metal enclosure	BL	BL	BL	BL	BL		
2	Blue plastic shell	BL	BL	BL	BL	BL		
3	Silver metal screw	BL	BL	BL	BL	BL		
4	Black wire	BL	BL	BL	BL	BL		
5	Red wire	BL	BL	BL	BL	BL		
6	Blue wire	BL	BL	BL	BL	BL		
7	Yellow wire	BL	BL	BL	BL	BL		
8	Connector	BL	BL	BL	BL	BL		
9	Lamp shade	BL	BL	BL	BL	BL		
10	Lamp bead	BL	BL	BL	BL	BL		
11	Chips of resistance	BL	BL	BL	BL	BL		
12	Chips of capacitance	BL	BL	BL	BL	BL		
13	PCB	BL	BL	BL	BL	BL		
14	Solder on PCB	BL	BL	BL	BL	BL		

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Note:

-- = Not Conducted

* = Screening by XRF and detected by chemical method. The test results of chemical method please refer to next pages.

i Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤50-3σ <x <150+3σ≤OL</x
Pb	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x
Hg	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x
Cr	mg/kg	BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<>	BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<>	BL≤500-3σ <x< td=""></x<>
Br	mg/kg	BL≤300-3σ <x< td=""><td></td><td>BL≤250-3σ<x< td=""></x<></td></x<>		BL≤250-3σ <x< td=""></x<>

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Note:

BL = Below Limit
OL = Over Limit
X = Inconclusive

The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

iii The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2011/65/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000
Bis(2-ethylhexyl) phthalate(DEHP)	1000
Butyl benzyl phthalate(BBP)	1000
Dibutyl phthalate(DBP)	1000
Diisobutyl phthalate(DIBP)	1000

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

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B. The Test Results of Chemical Method:

Test method:

Lead & Cadmium Content:

With reference to IEC 62321-5:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-AES)

Mercury Content:

With reference to IEC 62321-4:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-AES)

Hexavalent Chromium Content:

With reference to IEC 62321-7-1:2013, by alkaline digestion and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

Phthalates Content:

With reference to IEC 62321-8:2017, by gas chromatography-mass spectrometry (GC-MS)

1) The test results of Lead (Pb)

Item	Unit	MDL	Res	ults	Limit	
nem	Onit	WIDL	(1)	(2)	LIIIII	
Lead Content (Pb)	mg/kg	2	38	21	1000 mg/kg	
Conclusion	1	1	Pass	Pass	/	

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2) The test results of PBBs & PBDEs

Maria	l lmi4	MDI	Res	Limit	
Item	Unit	MDL	1	2	Limit
Polybrominated Biphenyls (PBBs)					
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	1000 mg/kg
Polybrominated Diphenylethers (PBDEs)(Mon-Deca)					
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	1000 mg/kg

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Itom	Unit	MDL	Results					Limit	
Item	Onit		(1)	(2)	(3)	(4)	(5)	Lillit	
Dibuyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	
Diispbutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	

Item	Unit	MDL	Results					Limit	
item	Offic		(6)	(7)	(8)	(9)	(10)	Lillit	
Dibuyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	
Diispbutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg	

Item	Unit	MDL	Results					Limit	
iteiii	Oilit		(11)	(12)	(13)	(14)		Lillin	
Dibuyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.		1000 mg/kg	
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.		1000 mg/kg	
Bis(2-ethylhexyl)	ma/ka	J/kg 50	N.D.	N.D.	N.D.	N.D.		1000 mg/kg	
Phthalate(DEHP)	IIIg/kg		N.D.	IN.D.	IN.D.	N.D.		1000 mg/kg	
Diispbutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.		1000 mg/kg	

Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit
- Photo appendix is included.

This report was based on the original report AOC251030024R, only following items are revised, when this report issued, the original report will be withdraw:

1.Modify the model list

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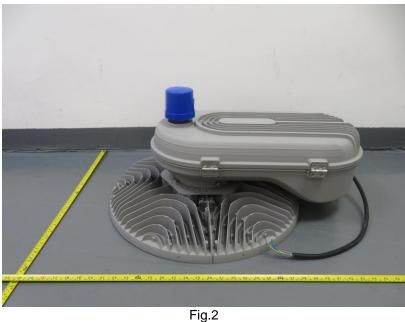
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Appendix

Photograph of Sample



Fig.1



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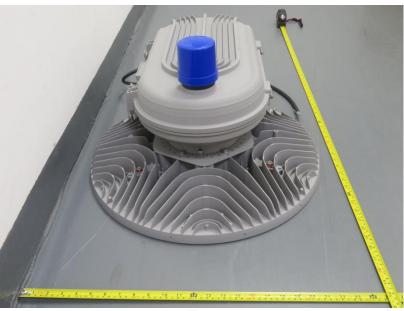


Fig.3



Fig.4

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Fig.5

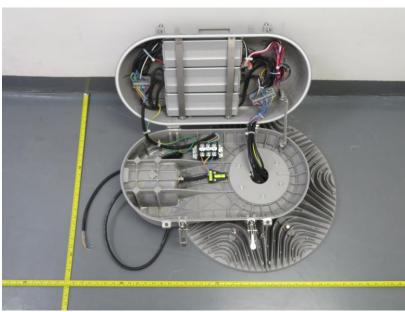


Fig.6

AOCE authenticate the photo on original report only

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Model list

Model	Rating	LED Driver		LED Qty.
		EUM-240S670MG	2pcs	E050-2C24D × 4
HD-HM03-450WD-C-xa-by	AC 100-240V, 50/60Hz, 450W	EUM-240S670BG	2pcs	5050:2C21B ×4
		N7-240M260A12	2PCS	5050:8C4B+2C5B×4
		EUM-320S760MG	2pcs	5050:2C21B ×4
HD-HM03-600WD-C-xa-by	AC 100-240V, 50/60Hz, 600W	EUM-320S760BG	2pcs	0000.2021B / \ 4
		N7-320M260A12	2PCS	5050:8C4B+2C5B×4
		EUM-240S670MG	3pcs	5050:2C21B ×6
HD-HM03-750WD-C-xa-by	AC 100-240V, 50/60Hz, 750W	EUM-240S670BG	3pcs	0000.2021B × 0
		N7-240M260A12	3PCS	5050:8C4B+2C5B×6
		EUM-320S760MG	3pcs	E0E0:2024D >/ 6
HD-HM03-900WD-C-xa-by	AC 100-240V, 50/60Hz, 900W	EUM-320S760BG	3pcs	5050:2C21B ×6
		N7-320M260A12	3PCS	5050:8C4B+2C5B×6
		EUM-240S670MG	3pcs	5050:2C21B ×6
		EUM-240S670BG	3pcs	5050:2C5B*3 ×1
HD-HM03-750WD-C-xa-bS	AC 100-240V, 50/60Hz, 750W	N7-240M260A12	3PCS	5050:8C4B+2C5B×6 5050:10C3B×1
		EUM-320S760MG	3pcs	5050:2C21B ×6
		EUM-320S760BG	3pcs	5050:2C5B*3 ×1
HD-HM03-960WD-C-xa-by	AC 100-240V, 50/60Hz, 960W	N7-320M260A12	3PCS	5050:8C4B+2C5B×6 5050:10C3B×1
		EUM-320S760MG	3pcs	5050:2C21B ×6
		EUM-320S760BG	3pcs	5050:2C5B*3 ×1
HD-HM03-1000WD-C-xa-by	AC 100-240V, 50/60Hz, 1000W	N7-320M260A12	3PCS	5050:8C4B+2C5B×6 5050:10C3B×1
HD HM02 450MD C vo by	A O O O T T 400 \ / F0 /00 \ J 450 \ J	ESM-240S670MG	2pcs	
HD-HM03-450WD-C-xa-by	AC 277-400V, 50/60Hz, 450W	ESM-240S670BG	2pcs	5050 0004D X 4
LID LIMO2 COOMD D va by		ESM-320S760MG	2pcs	5050:2C21B ×4
HD-HM03-600WD-D-xa-by	AC 277-400V, 50/60Hz, 600W	ESM-320S760BG	2pcs	
HD HM02 750MD D vo by	10 0== 40014 == 40014 == 014	ESM-240S670MG	3pcs	
HD-HM03-750WD-D-xa-by	AC 277-400V, 50/60Hz, 750W	ESM-240S670BG	3pcs	5050-0004B × 0
HD HM03 000MD D va bi	10 0== 40014 == 4==	ESM-320S760MG	3pcs	5050:2C21B ×6
HD-HM03-900WD-D-xa-by	AC 277-400V, 50/60Hz, 900W	ESM-320S760BG	3pcs	
LID LINGS TESTAD D		ESM-240S670MG	3pcs	5050:2C21B ×6
HD-HM03-750WD-D-xa-bS	AC 277-400V, 50/60Hz, 750W	ESM-240S670BG	3pcs	5050:2C5B*3 ×1
L	ı	1 2 2 2 2 2 2 2	-1	Page 1

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HD-HM03-960WD-D-xa-by	A O 077 400\/ 50/00\ - 000\M	ESM-320S760MG	3pcs	
TID-TIMOS-900WD-D-xa-by	AC 277-400V, 50/60Hz, 960W	ESM-320S760BG	3pcs	
HD HM02 1000WD D vo by	AO 077 400\/ 50/00\ 4000\	ESM-320S760MG	3pcs	
HD-HM03-1000WD-D-xa-by	AC 277-400V, 50/60Hz, 1000W	ESM-320S760BG	3pcs	

HD-HM03-xxxWd-v-xa-by

Where 'xxx' for lamp wattage, can be 450,600, 750, 900, 960, 1000, followed by W, Adjustable power. Where 'v' for Input voltage, can be: C for 100-240Vac; D for 277-400Vac;

Where 'x' for product code, which can be T2,T3,T4,T5,or any number from A to Z,or blank.

Where 'a' for CCT, which can be any number from 2700K-5700K

Where 'b' for different driver manufacturer, can be:blank for INVENTRONICS

Where 'y' for business purpose, can be Any letter from A to Z or any number from 0-9 or blank.

****** End of Report ********