



	IESI	REPORT									
Kunde: Client:	Shenzhen Goldenlux Co	Shenzhen Goldenlux Co.,Ltd									
Adresse: Address:	3/F Building 1, Bei Fang Shenzhen , China	3/F Building 1, Bei Fang Yong Fa Industrial Area, Sha Jing Town, Bao'an District, Shenzhen , China									
Hersteller: Manufacturer:	Shenzhen Goldenlux Co	.,Ltd	四检测股份								
Adresse: Address:	3/F Building 1, Bei Fang Shenzhen , China	Yong Fa Industrial Area,	Sha Jing Town, Bao'an District,								
Name der Marke: Brand Name:	GOLDENL X (Gold	denlux)									
Beschreibungdes Produkts: Product Description:	LED High Bay										
Modelle: Models:	See model list										
Bewertung: Rating:	See model list										
Verfahren: Method:	IEC 62262:2002	WST 工活控制制 Los restir	及份 1g Lab NS 1 CS Testi								
Prüfergebnis*: Test result*:	Pass										
Datum der Prüfung: Date of Test:	Datum der Emission: Date of Issue:	Klassifizierung: Classification:	Gegenstand der Prüfung: Test item:								
2022-04-27	2022-05-06	Commission Test	IK09 Test								
Prüflabor (Testlabor) / To Shenzhen Southern LCS	esting Laboratory: Compliance Testing Laborat	torv Ltd.									
Test von/Test by:	Check von/Che		Genehmigt von/Approved by:								
Rebecca Zin	Torres M	'A	Jessel								
		ector Je	Jesse Liu/ Manager								

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Remark: The duplication of this report or parts of it and its use for advertising purposes is only allowed with permission of the testing laboratory. This report contains the result of examination of the product sample submitted by the appliance. A general statement concerning the quality of the products from the series manufacturer cannot be derived therefore.





# General remarks:

- 1. The test results presented in this report relate only to the object tested.
- 2. This report shall not be reproduced, except in full, without the written approval of the Issuing Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the Testing Laboratory, responsible for this Test Report.
- 3. The general information of applicant and manufacturer (such as the name and address), product name, model/type reference, trademark and other similar information contained in this report are all provided by the applicant, the laboratory is not responsible for verifying its authenticity.

# **Modified Information**

Version	Report No.	Revision Date	Summary		
V1.0	LCS220426002BS	1	Original Version		

#### **General product information:**

- All models have same structure and material quality except the power are difference.
- Unless otherwise specified, the model GL-UFO200-C was chosen as representative model to perform all test.

#### **Model list:**

Model	Rating
GL-UFO100-K	220-240V~, 50/60Hz, 100W
GL-UFO150-K	220-240V~, 50/60Hz, 150W
GL-UFO200-K	220-240V~, 50/60Hz, 200W
GL-UFO240-K	220-240V~, 50/60Hz, 240W
GL-UFO100-M	220-240V~, 50/60Hz, 100W
GL-UFO150-M	220-240V~, 50/60Hz, 150W
GL-UFO200-M	220-240V~, 50/60Hz, 200W
GL-UFO100-N	220-240V~, 50/60Hz, 100W
GL-UFO150-N	220-240V~, 50/60Hz, 150W
GL-UFO200-N	220-240V~, 50/60Hz, 200W
GL-UFO240-N	220-240V~, 50/60Hz, 240W
GL-UFO100-C	220-240V~, 50/60Hz, 100W
GL-UFO150-C	220-240V~, 50/60Hz, 150W
GL-UFO200-C	220-240V~, 50/60Hz, 200W
GL-UFO100-P	220-240V~, 50/60Hz, 100W
GL-UFO150-P	220-240V~, 50/60Hz, 150W
GL-UFO200-P	220-240V~, 50/60Hz, 200W
GL-UFO100-L	220-240V~, 50/60Hz, 100W
GL-UFO150-L	220-240V~, 50/60Hz, 150W

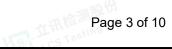


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/n (5 '	M.5/4 . C5 '	VASA . CT
GL-UFO200-L	220-240V~, 50/60Hz, 200W	
GL-UFO60-L	220-240V~, 50/60Hz, 60W	
GL-UFO100-V	220-240V~, 50/60Hz, 100W	
GL-UFO150-V	220-240V~, 50/60Hz, 150W	
GL-UFO200-V	220-240V~, 50/60Hz, 200W	
GL-UFO60-V	220-240V~, 50/60Hz, 60W	
GL-UFO100-O	220-240V~, 50/60Hz, 100W	
GL-UFO150-O	220-240V~, 50/60Hz, 150W	
GL-UFO200-O	220-240V~, 50/60Hz, 200W	-miles (f)
GL-UFO60-O	220-240V~, 50/60Hz, 60W	sting Lab
GL-UFO100-J	220-240V~, 50/60Hz, 100W	,
GL-UFO150-J	220-240V~, 50/60Hz, 150W	
GL-UFO200-J	220-240V~, 50/60Hz, 200W	
GL-UFO240-J	220-240V~, 50/60Hz, 240W	
GL-UFO300-J	220-240V~, 50/60Hz, 300W	
GL-UFO400-J	220-240V~, 50/60Hz, 400W	
GL-UFO500-J	220-240V~, 50/60Hz, 500W	

Parts	Material	Thickness (mm)
Enclosure	die-casting aluminium	2
Cover	PC	3 9

# Equipment used during test:

ID Number	Instrument	Model/ Type	Cal. Date	Due. Date
SLCS-S-182	IK tester	AGIKCJ	2021-05-13	2022-05-12
SLCS-S-135	Digital hygrometer thermometer	HTC-1	2021-05-14	2022-05-13
SLCS-S-088	Таре	5M	2021-05-14	2022-05-13
SLCS-E-024	Emperature and humidity barometer	HTC-1	2021-06-16	2022-06-15



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**Designations** 4 1 Arrangement of the IK code **IK09** 05 Codes letters (international mechanical protection) Characteristic group numeral (00 to 10) -4.2 Characteristic group numerals of the IK code and their meanings | See table 1 of IEC Each characteristic group numeral, represents an impact energy 62262, IK10 Impact value as shown in Table1. energy Joule 10J 4.3 Application of the IK code N/A In general the degree of protection applies to the complete enclosure. If parts of the enclosure have differing degrees of protection, the latter shall be separately indicated. 4.4 Marking In case where the relevant product committee decides that IK09 marking of the IK-code shall be required, the marking requirements shall be detailed in the relevant product standard. Where appropriate, such a standard should also specify the method of marking which is to be used when: one part of an enclosure has different degree of protection to N/A that of another part of the same enclosure; - the mounting position has an influence on the degree of N/A protection. 5 General requirements for tests 5.1 Atmospheric conditions for tests Ρ Unless otherwise specified in the relevant product standard, the test shall be carried out under the standard atmospheric conditions for tests described in IEC60068-1as: 25°C Temperature range15°C to 35°C Ρ 96kPa Ρ Air pressure 86kPa to 106kPa (860mbar to 1060mbar) When the altitude at which the test is performed is higher than Below 2000m N/A 2000m the height of fall shall be adjusted where necessary to result in the specified impact energy. 5.2 Enclosures under test N/A Each enclosure under test shall be in a clean and new condition, Ρ complete with all their parts in place unless otherwise specified in the relevant product standard. 5.3 Specifications to be given in the relevant product standard The relevant product standard shall specify: the definition of "enclosure" as it applies to the particular type N/A



of equipment;

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—the test equipment (e.g. pendulum hammer, spring hammer or Ρ vertical hammer, seeClause7); the number of samples to be tested; -the conditions for mounting, assembling and positioning the Ρ samples, e.g. by the use of an artificial surface(ceiling, floor or wall), in order to stimulate intended service conditions as far as possible; the pre-conditioning, if any, which is to be used; N/A whether to be tested energized; No energized N/A N/A -whether to be tested with any moving parts in motion; No moving parts the number of impacts and their points of application (see 6.3). Ρ Ρ In the absence of such specifications in the relevant product standard, conditions of this standard shall apply. 6 Test to verify the protection against mechanical impacts 6.1 The tests specified in this standard are type tests. 6.2 Ρ In order to verify the protection against mechanical impacts blows shall be applied to the enclosure to be tested. The device to be used for this test are described in Clause7. 6.3 During the test the enclosure shall be mounted, according to the Displacement is less manufacturer instructions for use, on a rigid support. A support is than or equal to considered to be sufficiently rigid if its displacement is less than 0,1mm or equal to 0,1mm under the effect of an impact directly applied and whose energy corresponds to the degree of protection. Alternative mounting and support, suitable for the product, may be specified in the relevant product standard. 6.4 The number of impacts shall be five on each exposed face 5 points, 3 times per unless otherwise specified in the relevant product standard. The point impacts shall be evenly distributed on the faces of the enclosure (s) under test. In no case shall more than three impacts be applied in the surroundings of the same 6.5 Test evaluation The relevant product standard shall specify the criteria upon which the acceptance or rejection of the enclosure is to be based on particularly: -admissible damages; No damage Ρ ─verification criteria relative to the continuity of the safety and No broken reliability of the equipment. 7 **Test apparatus** The test shall be done by using one of the test apparatus as Р described in EN60068-2-75.









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	The striking surface shall be visually examined before each impact in order to ensure that there is no damage that might	_	Р
	affect the result of the test.		
7.1	Test Ehc: Vertical hammer		
7.2	The hammer consists basically of a striking element which falls	See table 1 of IEC	Р
	freely from rest through a vertical height, selected from table2,	60068-2-75	
	on to the specimen surface held in a horizontal plane. The		
	characteristics of the striking element shall comply with table 1.		
	The fall of the striking element shall be along a guide way, for		-n.147
	example a tube, with negligible braking. This guide way shall not	一话位别	A Fap
NG.	rest on the specimen and the striking element shall be free of the	VIST LCS Tes	142.
	guide way on striking the specimen. In order to reduce the		
	friction, the length I of the striking element shall not be smaller		
	than its diameter D, and a small gap (for example 1 mm) shall be		
	provided between the striking element and the guide way.		
7.3	Height of fall		Р
	The height of fall shall be as given in table2, the equivalent mass	200mm	
	stated therein being equal to the actual mass of the striking		
	element.		













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# REMARKS:

- 1. The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.
- 2. Characterization & Condition of Sample: Normal.

#### Table 1 of IEC 62262-2002:

Table 1- Relation between IK code and impact energy

IKcode	IK00	IK01	IK02	IK03	IK04	IK05	IK06	IK07	IK08	IK09	) IK10
Impact energy Joule	sting Lab	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 Joule is recommended.

NOTE 2 A characteristic group numeral of two figures has been chosen to avoid confusion with some former national standards which used a single numeral for a specific impact energy.

#### Table 2 of IEC 60068-2-75:

## Table 2- Height of tall

Ene		0,14	0	,2	(0,3)	0,35	(0,4)	0	,5	0,7	1	2	5	10	20	50
Equiv ma kự		0,25	(0,2)	0,25	(0,2)	0,25	(0,2)	(0,2)	0,25	0,25	0,25	0,5	1,7	5	5.0	10
Heig ta mm <del>±</del>	all	56	(100)	80	(150)	140	(200)	(250)	200	280	400	400	300	200	400	500

#### **NOTES**

1 See note in 3.2.2.

2 In this part of IEC 60068, the energy, J, is calculated taking the standard acceleration clue to the earth's Gravity( $g_n$ ), rounded up to the nearest whole number, that is  $10m/s^2$ .



ESTING



#### Table 1 of IEC 60068-2-75

Table 1 - Co-ordinated charateristics of the striking elements

Energy value	≤1	2	5	10	20	50		
J	±10%	±5%	±5%	±5%	±5%	±5%		
Equivalent mass ±2% kg	0,25 (0,2)	0,5 1,7		5	5	10		
Material	Polyamide <sup>1)</sup>	.77	检测股份	Steel <sup>2)</sup>		成物则股份		
R mm	10	25	70° 125	50	50	50		
D mm	18,5 (20)	35	60	80	100	125		
f mm	6,2 (10)	7	10	20	20	25		
r mm			6		10	17		
l mm	To be adjusted to match the equivalent mass, see annex A.							

<sup>1) 85≤</sup>HRR≤100, Rockwell hardness according to ISO 2039-2.

NOTE - The values shown in brackets for the equivalent mass and the diameter of the striking element for the energy value equal to or less than 1 J are those in the current test Ef. The values currently in test Eg are also shown for these two parameters. For co-ordination purposes, the values in brackets will be deleted five years from the publication of this standard.

Figure1— Example sketch of a striking element

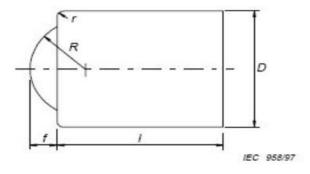


Figure 1 - Example sketch of a striking element



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<sup>2)</sup> Fe 490-2, according to ISO 1052: Rockwell hardness: HRE 80...85 according to ISO 6508.



#### **Photo Documentation:**

Photo 1: Overall view of model GL-UFO200-C

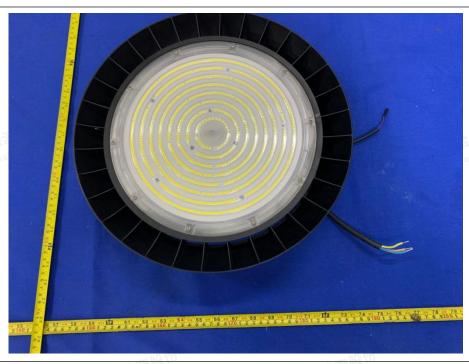
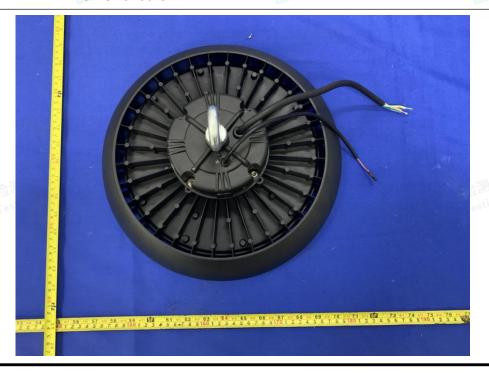


Photo 2: Overall view of model GL-UFO200-C





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#### **Photo Documentation:**

Photo 3: IK09 test of model GL-UFO200-C



----- End of Test Report-----











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