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Report No.:DER2102720737944

TEST REPORT IEC TR 62778

Application of IEC 62778 for the assessment of blue light hazard to light sources and luminaires

Report Reference No:	DER2102720737944			
Compiled by (+ signature):	Young			
Reviewed by (+ signature):	Simon Yao			
Approved by (+ signature):				
Date of issue:	October 27, 2021			
Testing Laboratory:	Shenzhen De-Testing Detection Co., Ltd			
Address:	1-5 Floor, 4 Building, Tangtou 3rd Industrial Zone, Shiyan own, Baoʻan District ,Shenzhen Guangdong. China			
Testing location:	Same as above			
Applicant's name:	Shenzhen Goldenlux Co., Ltd			
Address:	3/F Building 1, Bei Fang Yong Fa Industrial Area, Shajing Town, Bao'an District, Shenzhen, China			
Test specification:				
Standard:	IEC TR 62778:2014 (Second Edition)			
Test procedure:	Test report			
Non-standard test method:	N/A			
Test Report Form No	IEC62778A			
Test Report Form(s) Originator:	DE			
Master TRF	Dated 2016-02			
Test item description	LED High Bay			
Trade Mark:	GOLDENLOX®			
Manufacturer:	Shenzhen Goldenlux Co., Ltd			
Address:	3/F Building 1, Bei Fang Yong Fa Industrial Area, Shajing Town, Bao'an District, Shenzhen, China			
Model/Type reference	See model list			
Ratings				



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Model List

No.		Power(W)	LED driver model	LED module				
	Model			LED chip Num.	Serial/ Parallel	Weight (kg)	Size (mm) (⊕xH)	Classification
		Max. 80	SS-120CNL-130	240	20S12P	1.7	Ø278x100	Class I, IP65
01	GL-UFO80-P		Xi 100W 0.7-1.0A 1-10V 220-240V RI132S	240	20S12P			
			SS-120CNL-130	240	20S12P			Class I, IP65
02	GL-UFO100-P	Max. 100	Xi 100W 0.7-1.0A 1-10V 220-240V RI132S	240	20S12P	1.7	Ø278x100	
			SS-150CNL-260	360	40S9P	2.0	Ø320x100	Class I, IP65
03	GL-UFO120-P	Max. 120	Xi_150W_1.0- 1.5A_1-10V_220- 240V_RI132S	360	20S18P			
			SS-150CNL-260	360	40S9P) Ø320x100	Class I, IP65
04	GL-UFO150-P	Max. 150	Xi_150W_1.0- 1.5A_1-10V_220- 240V_RI132S	360	20S18P	2.0		
	GL-UFO180-P Max.		SS-200CNL-260	480	40S12P	2.6	Ø360x107	Class I, IP65
05		Max. 180	Xi_200W_1.4- 2.0A_1-10V_220- 240V_RI132S	480	20S24P			
	GL-UFO200-P	Max. 200	SS-200CNL-260	480	40S12P	2.6	Ø360x107	Class I, IP65
06			Xi_200W_1.4- 2.0A_1-10V_220- 240V_RI132S	480	20S24P			

All models have the same parameters and materials, only GL-UFO200-P models are used as the main inspection.



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Summary of testing:

Tests performed (name of test and test clause):

The submitted samples were found to comply with requirements of standards:

-- IEC TR 62778:2014

Summary of compliance with National Differences (List of countries addressed):

N/A

Copy of marking plate:

N/A



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Test item particulars:					
Product evaluated	☐ LED package				
	LED module				
	🗌 Lamp				
	⊠ Luminaire				
Rated voltage (V):	220-240V~ 50/60Hz				
Rated power (W):	200				
Rated CCT (K): :	N/A				
Rated Luminance (Mcd/m ²):	N/A				
Component report data used:	⊠ Not applicable				
	LED package				
	LED module				
	Lamp				
	Report number: N/A				
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:	Shenzhen De-Testing Detection Co., Ltd				
Date of receipt of test item:	October 26, 2021				
Date (s) of performance of tests:	October 27, 2021				
General remarks:					
The test results presented in this report relate only to	-				
This report shall not be reproduced, except in full, with laboratory.	nout the written approval of the issuing testing				
The tested sample(s) and the sample information are provided by the client.					
"(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 \boxtimes comma / \square point is used as the decimal separator. The test report only allows to be revised only within the report defined retention period unless standard or regulation was withdrawn or invalid.					
When determining for test conclusion, measurement uncertainty of tests has been considered.					
Name and address of factory (ies) : The same as manufacturer					



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Requirement + Test

Clause

Result - Remark Verdict

7	MEASUREMENT INFORMATION FLOW		Р		
7.1	Basic flow				
	'Law of conservation of luminance' applied				
	Use of only true luminance/radiance values		р		
	In case of luminaire: The light source is operated in the luminaire under similar conditions as when tested as a component		N/A		
	In case E_{thr} value for RG2 was established the peak value was derived from angular light distribution		N/A		
7.2	Conditions for the radiance measurement				
	Standard condition applied (200mm distance, 0,011rad field of view)		Р		
	Non-standard condition applied		N/A		
7.3	Special cases (I): Replacement by a lamp or LED module of another type				
	Light source is a white light source		N/A		
	Evaluation done based on highest luminance		N/A		
	Evaluation done based on CCT value		N/A		
7.4	Special cases (II): Arrays and clusters of primary light sources				
	LED package is evaluated as	☐ RG0 unlimited ☑ RG1 unlimited	Р		
	E _{thr} of LED package applies to array		N/A		
8	RISK GROUP CLASSIFICATION				
	Risk group achieved:		N/A		
	Risk Group 0 unlimited		N/A		
	Risk Group 1 unlimited		Р		
	- E _{thr} (lx) : Distance to reach RG1(m) :		N/A		



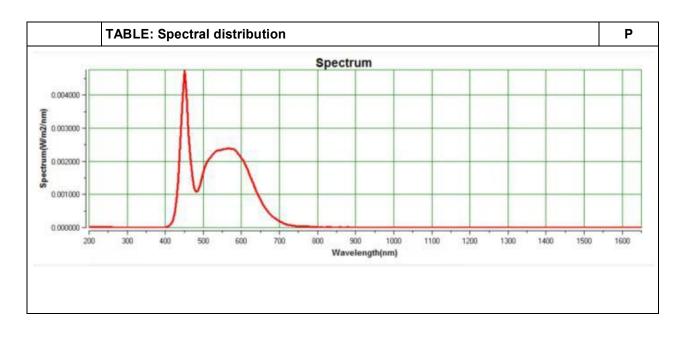
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	TABLE A: Spectroradiometric measurement				Р
	Measurement perf	ormed on:	 □ LED package □ LED module □ Lamp ⊠ Luminaire 		
	Model number		GL-UFO200-P		
	Test voltage (V)		230~ 50Hz	—	
	Test current (mA)		1	—	
	Test frequency (Hz	:)		—	
	Ambient, t (°C)		25.8		
	Measurement distance Source size		⊠ 20 cm □ cm	_	
			⊠ Non-small □ Small : mm	—	
	Field of view	☐ 100 mrad ⊠ 11 mrad ☐ 1,7 mrad (for small	_		
	Item	Symbol	Units	Resul	t
Correlated colour temperature		ССТ	К	6378	
Blue light hazard radiance L _B		LB	W/(m ² •sr ¹)	5,204E+	02
Blue light hazard irradiance		E _β	/	1	
Luminance		L	cd/m ²	4,801E+	06
Illuminance		E	lx		



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Photo documentation

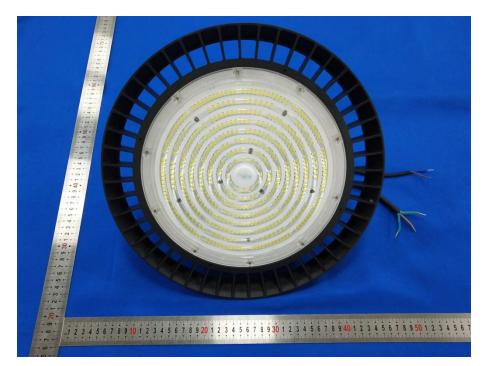


Fig. 1 -Front view

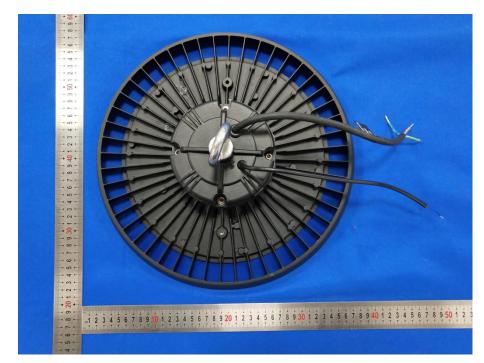


Fig. 2 -Rear view



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Fig. 3 - Lamp bead photo

*** End of Report ***

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