

TEST REPORT

REPORT NO.: JBS200807-H



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Test Report
IEC 62471:2008
Photobiological safety of lamps and lamp systems

Test Report No:	JBS200807-H
Date of Issue.....:	2020/8/13
Total number of pages.....:	5
Testing Laboratory:	Standard-Tech Co., Ltd.
Address.....:	Standard-Tech Building, No. 6 Guanhong Road, Guangzhou Science City, Guangzhou 510663, CHINA
Tested by(+ signature).....:	Corey Ou 
Reviewed by(+ signature).....:	Feynman.Wu 
Applicant's name:	LUXGLO
Address.....:	1241 Quarry Lane #140 Pleasanton, CA 94566
Test Specification	
Standard.....:	IEC 62471:2008
Test Item Description	
Model/Type.....:	T8-D-3-420-BDAB
Manufacturer.....:	LUXGLO
Test Model.....:	T8-D-3-420-BDAB
Test item particulars	
Test lamp or lamp system.....:	Continuous wave lamps
Lamp classification group.....:	Exempt Group
Lamp cap.....:	N/A
Bulb.....:	N/A
Rated of the lamp.....:	100-277V~, 50/60Hz, 0.27A, 20W
Trade Mark.....:	LUXGLO
Lamp Bead Manufacturer.....:	LUXGLO
Lamp bead model.....:	INFE-2835-DF-S-CT-R
Seasoning of the lamp according IEC standard.....:	N/A
Measurement condition.....:	25.4 °C
Measurement distance.....:	0.2m
Testing:	
Date of Receipt Test Item.....:	2020/8/13
Date of Performance of Test.....:	2020/8/13



Test Results

Emission Limits for Risk Group of Continuous Wave Lamps

Risk	Units	Exempt		Low Risk		Mod Risk	
		Limit	Result	Limit	Result	Limit	Result
Actinic UV, Es	W·m-2	0.001	3.210E-04	0.003	3.210E-04	0.03	3.210E-04
Near UV, Euva	W·m-2	0.33	1.954E-02	33	1.954E-02	100	1.954E-02
Blue light, Lb	W·m-2·sr-1	100	4.874E+01	10000	7.604E+02	4000000	1.214E+03
Blue light, small source, Eb	W·m-2	-	-	-	-	-	-
Retinal thermal, Lr	W·m-2·sr-1	5.108E+05	9.389E+03	5.108E+05	9.389E+03	1.295E+06	1.499E+04
Retinal thermal, weak visual stimulus, Lir	W·m-2·sr-1	1.095E+05	2.917E+00	1.095E+05	2.917E+00	1.095E+05	2.917E+00
IR radiation, eye, Eir	W·m-2	100	7.168E-04	570	7.168E-04	3200	7.168E-04
IR radiation, skin, Eh	W·m-2	3556.56	6.036E-01	NA	NA	NA	NA

Angular subtense of apparent source

$\alpha = 54.82 \text{ mrad}$

Averaged Luminance Test Results

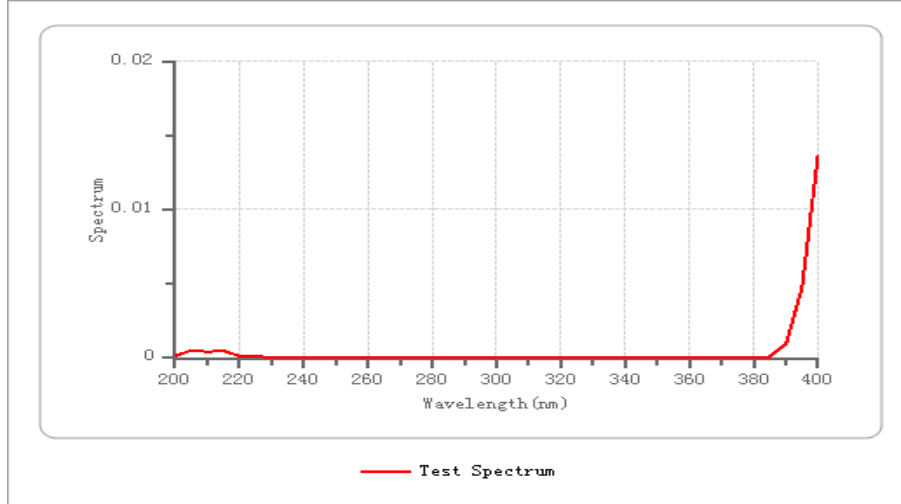
Symbol	FOV(mrad)	Units	Results
L1	1.7	cd·m-2	1.399E+06
L2	11	cd·m-2	8.759E+05
L3	100	cd·m-2	5.615E+04

Over view of Classification

Hazard	Risk Group
Actinic UV	Exempt Group
Near UV	Exempt Group
Blue light	Exempt Group
Retinal thermal	Exempt Group
Retinal thermal, weak visual stimulus	Exempt Group
IR radiation, eye	Exempt Group
Classification group	Exempt Group

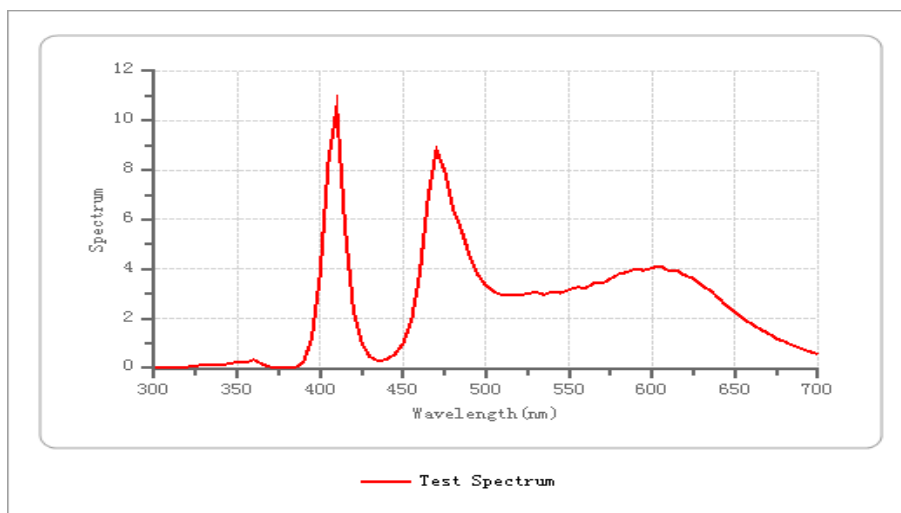
Spectral Distribution (200nm~400nm)

Es,Euva



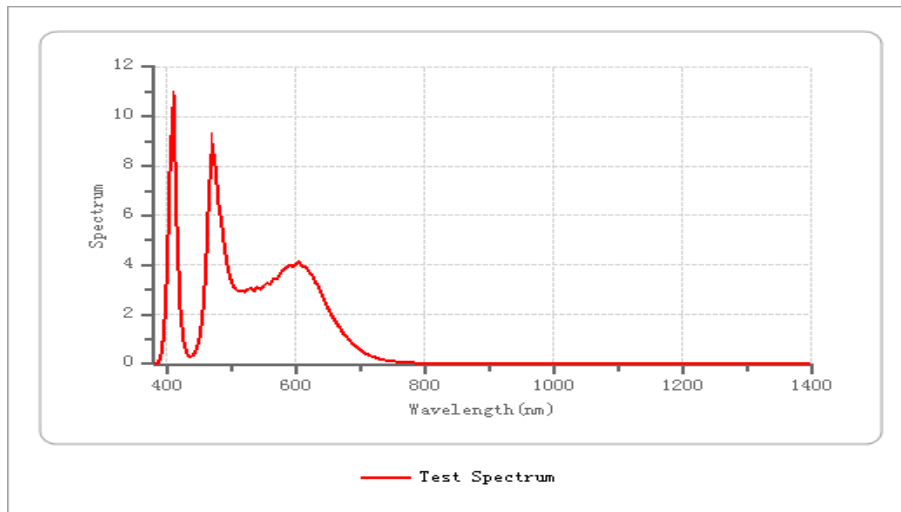
Spectral Distribution (300nm~700nm)

Lb/Eb



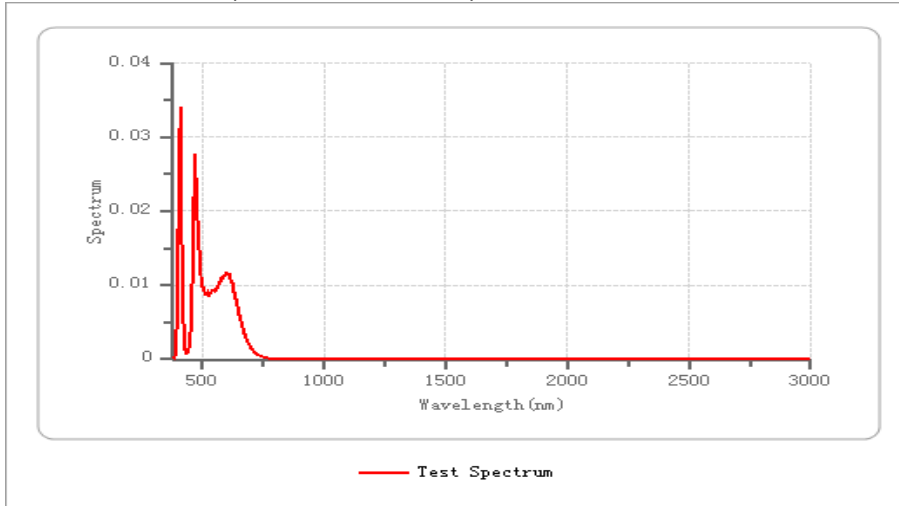
Spectral Distribution (380nm~1400nm)

Lr,Lir

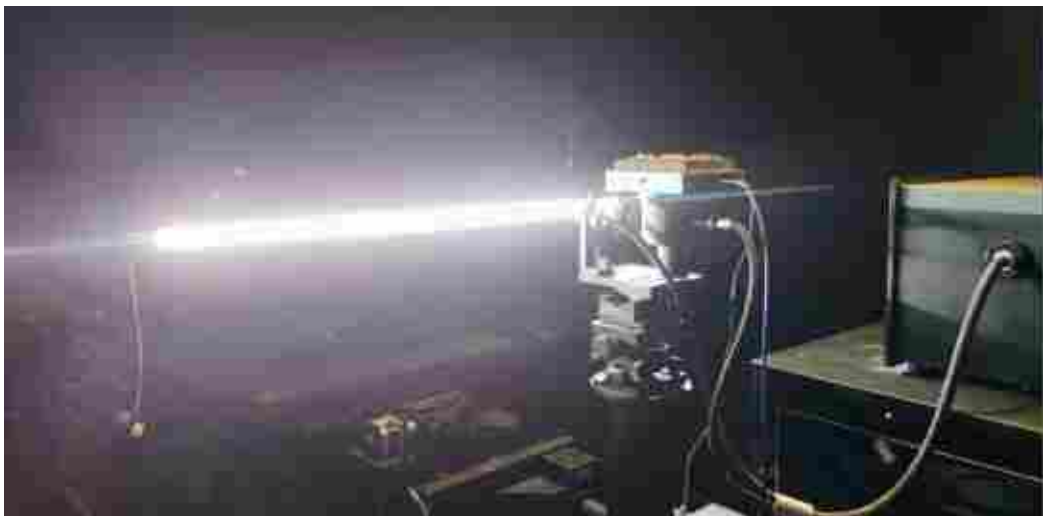


Spectral Distribution (380nm~3000nm)

Eir,Eh



Sample Photo



STATEMENT

1. Without the written authorization from the laboratory, this test report should not be partially duplicated, unless the whole test report being copied as an entire document.
2. The test report is only valid to the tested sample.
3. If you have any objections on this testing result, please submit a written complain to the laboratory within 10 days after you received this test report.
4. The tested samples must be reclaimed within 60 days after you received this test report, otherwise, the laboratory will dispose them itself.
5. This test report is for applicant's reference only, not for complains or arbitrations as in accordance with.

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