



TEST REPORT IEC TR 62778

Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires

Report Reference No..... EED31K002715

Compiled by (+ signature)...... Carrie Lin

Reviewed by (+ signature)...... Torres He

Approved by (+ signature)...... Amo Liu

Date of issue....:

Testing Laboratory.....: Centre Testing International Group Co., Ltd.

Address.....: Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong,

China

Applicant s name...... Shenzhen Refond Optoelectronic Co., Ltd.

Sept. 03, 2018

Community, Gong Ming Area, Guang Ming New District,

ab Supervisor

SHENZHEN, CHINA.

Manufacture s name.....: Shenzhen Refond Optoelectronic Co., Ltd.

Address...... 1 to 8th Floor, Building #1,10th Industrial Zone, Tian Liao

Community, Gong Ming Area, Guang Ming New 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

TTRF Originator.....: CTI

Master TTRF.....: Dated 2016-02

Test item description..... LED

, RF-40HI32DS--Q-**, RF-50HI32DS-**-Q-**, RF-57HI32DS-**-

Q-**, RF-65HI32DS-**-Q-**

Remark: The first "**" denotes the different customer

code, it can be one any capital letter such as FH, FF, EF or FD and

so on. The second "**" denotes the different project application,

it can be EH or 01 and so on.

Ratings.....: 150mA, 3,1V DC

Check No.: 2447659158







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Summary of testing: **Test conditions:** 1. Ambient temperature: 24,3°C; Humidity: 54%; 2. Measurement distance: 200mm; 3. Aperture stop: 7mm **Spectral Distribution** Spectrum Curve 1.0000 Conclusion: Sample tested is considered as Risk1 Group. Tests performed (name of test and test clause): **Testing location:** All applicable tests as described in Test Case and Centre Testing International Group Co., Ltd. Measurement Sections were performed. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China **Summary of compliance with National Differences:** 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):	
Rated current (mA)	150mA
Rated CCT (K)	N/A
Rated Luminance (Mcd/m²)	N/A
Component report data used:	☐ Not applicable
	□ LED package □
	☐ LED module
	☐ Lamp
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:	Aug. 25, 2018
Date (s) of performance of tests:	Aug. 28, 2018
General remarks:	
"(See Enclosure #)" refers to additional information ap "(See appended table)" refers to a table appended to the tested sample(s) and the sample information are property this report a ⊠ comma / ☐ point is used Remark:"#" indicates the testing item(s) was (were) further than the sample information appears to a sample	ne report. provided by the client. as the decimal separator.
Manufacturer s Declaration per sub-clause 4.2.5 of	
The application for obtaining a CB Test Certificate	Yes
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	Not applicable
When differences exist; they shall be identified in t	he General product information section.
Name and address of factory (ies):	N/A
General product information:	
	temperature, customer code and project application. of applicant, all the tests are performed on the main
The test current is 150mA	





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Product information				
Model	Color temperature	Rated voltage (V)	Rated current (A)	Rated power (W)
RF-22HI32DS-**-Q-**	HI32DS-**-Q-** 2200K		0,15	0,465
RF-27HI32DS-**-Q-**	2700K	3,1	0,15	0,465
RF-30HI32DS-**-Q-**	3000K	3,1	0,15	0,465
RF-40HI32DS-**-Q-**	4000K	3,1	0,15	0,465
RF-50HI32DS-**-Q-**	5000K	3,1	0,15	0,465
RF-57HI32DS-**-Q-**	5700K	3,1	0,15	0,465
RF-65HI32DS-**-Q-**	6500K	3,1	0,15	0,465











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Clause	Requirement + Test	Result - Remark	Verdict

7	MEASUREMENT INFORMATION FLOW	Р
7.1	Basic flow	N/A
	'Law of conservation of luminance' applied	N/A
	Use of only true luminance/radiance val	















































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	IEC ⁻	TR 62778		
Clause	Requirement + Test		Result - Remark	Verdict
	TABLE: Spectroradiometric measu	rement		P
	Measurement performed on:			_
		☐ LE	D module	
		☐ Lai	mp	
		☐ Lui	minaire	
	Model number	RF-65	HI32DS-FH-Q-01	
	Test voltage (V)	3,1		3/4
	Test current (mA)	150	37)	3/4
_	Test frequency (Hz)	N/A		3/4
	Ambient, t (°C)	24,3		3/4
	Measurement distance	🖂 20	cm	3/4
		₽	cm	
	Source size	No	n-small	







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Photo Document



Fig. 1 - Overall view of the sample

*** End of Report ***

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