



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.

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

China

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

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

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:

IEC TR 62778:2014 (Second Edition) Standard....:

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-22HI32DS-**-Q-**, RF-27HI32DS-**-Q-**, RF-30HI32DS-**-Q-Model/Type reference....:

, 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.

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

Check No.: 2447659158











Report No.: EED31K002715 Page 2 of 7

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























Report No.: EED31K002715 Page 3 of 7

Test item particulars::		
Product evaluated::	☑ LED package☐ LED module☐ Lamp☐ Luminaire	
Rated voltage (V)::	3,1V DC	
Rated current (mA):	150mA	
Rated CCT (K):	N/A	
Rated Luminance (Mcd/m²):	N/A	
Component report data used:	Not applicable	
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:		٥
"(See Enclosure #)" refers to additional information ap "(See appended table)" refers to a table appended to to the tested sample(s) and the sample information are proposed to the tested sample and the sample information are proposed to the tested sample and the sample information are proposed to the testing item(s) was (were) full sample."	he report. provided by the client. as the decimal separator.	
Manufacturer s Declaration per sub-clause 4.2.5 of	IECEE 02:	
The application for obtaining a CB Test Certificate 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	☐ Yes☒ Not applicable	. 4. 5
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:		
These models are same except the different color according to the differences and with the request of model RF-65HI32DS-FH-Q-01. The test current is 150mA.		





Report No.: EED31K002715 Page 4 of 7

Product information				
Model	Color temperature	Rated voltage (V)	Rated current (A)	Rated power (W)
RF-22HI32DS-**-Q-**	2200K	3,1	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











Report No.: EED31K002715	Page 5 of 7

	IEC TR 62778			
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	















































Report No.	EED31K002713			Page 6
	IEC	TR 62778		
Clause	Requirement + Test		Result - Remark	Verdi
	TABLE: Spectroradiometric measu	rement		Р
	Measurement performed on:	∠ LED package		
		☐ 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		3/4
	Test frequency (Hz)		* /	3/4
	Ambient, t (°C)	24,3		3/4
	Measurement distance	🛛 20	cm	3/4
		₽ (cm	
	Source size	🕸 No	n-small	
		対s		







Report No.: EED31K002715 Page 7 of 7

Photo Document



Fig. 1 - Overall view of the sample

*** End of Report ***

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