



TEST REPORT IEC 62471 Photobiological safety of lamps and lamp systems	
Report Reference No. : STUESO230300042LM Date of issue : Mar. 21 2023 Total number of pages : 21	
Testing Laboratory : Standard Technology Union Co., Ltd Address : No.203, Building B, Jingye Sanjie, Yushu Industrial Park, Guangzhou Economic & Technological Development Zone, Guangzhou	
Applicant's name : UV Lash South Africa Address : 89 Kloof Nek Road, Tamboerskloof, Cape Town, South Africa, 8001 Test specification:	
Standard : IEC 62471:2006 (First Edition) Test procedure : Commission test Non-standard test method..... : N/A Test Report Form No. : IEC62471A	
TRF Originator : VDE Testing and Certification Institute Master TRF : Dated 2009-05 Copyright © 2009 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.	
Test item description : UV Eyelash Extension Lamp Trade Mark : --- Manufacturer : Not Disclosed Address : Not Disclosed Model/Type reference : FL007, CL007, FL008, CL008, FL009, CL009, FL010, CL010, SL007, SL008, SL009, SL010 Ratings : 5V ,1A, LEDs, Class III, IP20; (See general product information)	



Testing procedure and testing location:	
☒ Testing Laboratory:	Standard Technology Union Co., Ltd
Testing location/ address: No.203, Building B, Jingye Sanjie, Yushu Industrial Park, Guangzhou Economic & Technological Development Zone, Guangzhou, Guangdong, China	
☐ Associated Laboratory:	
Testing location/ address	
Tested by (name + signature)	Juener Li (LVD Engineer)
Approved by (+ signature)	Johnson Xie (LVD Engineer)
☐ Testing procedure: TMP	
Tested by (name + signature)	
Approved by (+ signature)	
Testing location/ address	
☐ Testing procedure: WMT	
Tested by (name + signature)	
Witnessed by (+ signature)	
Approved by (+ signature)	
Testing location/ address	
☐ Testing procedure: SMT	
Tested by (name + signature)	
Approved by (+ signature)	
Supervised by (+ signature)	
Testing location/ address	
☐ Testing procedure: RMT	
Tested by (name + signature)	
Approved by (+ signature)	
Supervised by (+ signature)	
Testing location/ address	



Full test with model FL007.

Summary of testing:	
Tests performed (name of test and test clause): These tests fulfil the requirements of standard ISO/IEC 17025. When determining the test conclusion, the Measurement Uncertainty of test has been considered. List of attachments: Same as manufacturer Annex 1: European Group Differences and National Differences Annex 2: Product photo	Testing location: Standard Technology Union Co., Ltd No.203, Building B, Jingye Sanjie, Yushu Industrial Park, Guangzhou Economic & Technological Development Zone, Guangzhou, Guangdong, China Name and address of production sites (Factories):
Summary of compliance with National Differences: Compliance with the National requirements of European group differences and national differences for EN 62471: 2008.	
Copy of marking plate: N/A	



Test item particulars : ☒ ☐

Tested lamp : continuous wave lamps pulsed lamps

Tested lamp system : N/A ☒ ☐ ☐ ☐

Lamp classification group : exempt risk 1 risk 2 risk 3

Lamp cap :--

Bulb :--

Rated of the lamp : --

Furthermore marking on the lamp : --

Seasoning of lamps according IEC standard : --

Used measurement instrument : Ref. to List of test equipment used

Temperature by measurement : 25 ± 5°C

Information for safety use : For indoor use

Possible test case verdicts:

- test case does not apply to the test object : N/A (Not applicable)
- test object does meet the requirement : P (Pass)
- test object does not meet the requirement : F (Fail)

Testing:

Date of receipt of test item : Mar. 16 2023

Date (s) of performance of tests : Mar. 16 2023 to Mar. 21 2023

General remarks:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(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 comma (point) is used as the decimal separator.

List of test equipment must be kept on file and available for review.

General product information:

The product can emit Blue light when powered.

This report cover the following models:

Model No. Ratings

FL007, CL007, FL008, CL008, FL009, CL009, FL010, CL010, SL007, 5V ,1A, LEDs, 3,65W
SL008, SL009, SL010

The all models have same construction and components, Using the same LEDs, only the appearance shape different.



IEC 62471			
Clause	Requirement + Test Result – Remark		Verdict
4	EXPOSURE LIMITS		P
4.1	General		P
	The exposure limits in this standard is not less than 0,01 ms and not more than any 8-hour period and should be used as guides in the control of exposure		P
	Detailed spectral data of a light source are generally required only if the luminance of the source exceeds see clause 4.3 104 cd.m-2		P
4.3	Hazard exposure limits		P
4.3.1	Actinic UV hazard exposure limit for the skin and eye No UV hazard		P
	The exposure limit for effective radiant exposure is 30 J.m-2 within any 8-hour period		P
	To protect against injury of the eye or skin from ultraviolet radiation exposure produced by a broad-band source, the effective integrated spectral irradiance , ES, of the light source shall not exceed the levels defined by:		P
	$E_s \cdot t = \sum_{\lambda=300}^{400} \sum E_{\lambda}(t) \cdot S_{UV}(\lambda) \cdot \Delta t \cdot \Delta \lambda \leq 30 \text{ J.m}^{-2}$		P
	The permissible time for exposure to ultraviolet radiation incident upon the unprotected eye or skin shall be computed by:		P
	Near-UV hazard exposure limit for eye		P
4.3.2	For the spectral region 315 nm to 400 nm (UV-A) the No near-UV hazard total radiant exposure to the eye shall not exceed 10000 J.m-2 for exposure times less than 1000 s. For exposure times greater than 1000 s (approximately 16 minutes) the UV-A irradiance for the unprotected eye, E, shall not exceed 10 Wm.		P
	The permissible time for exposure to ultraviolet radiation incident upon the unprotected eye for time less than 1000 s, shall be computed by:		P
	$t_{\max} \leq \frac{10\,000}{E_{UVA}} \text{ s}$		P
4.3.3	Retinal blue light hazard exposure limit		P



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Clause	Requirement + Test Result – Remark		Verdict
	To protect against retinal photochemical injury from chronic blue-light exposure, the integrated spectral radiance of the light source weighted against the blue-light hazard function, B(λ), i.e., the blue-light weighted radiance , LB, shall not exceed the levels defined by:		P
	for t ≤ 100 s $I_B \cdot t = \sum_{300}^{700} I_{\lambda}(\lambda, t) \cdot B(\lambda) \cdot \Delta\lambda \leq 10^6 \quad \text{J} \cdot \text{m}^{-2} \cdot \text{sr}^{-1}$	$t_{\max} = \frac{10^6}{L_B}$	P
	for t > 100 s $I_B = \sum_{300}^{700} I_{\lambda} \cdot B(\lambda) \cdot \Delta\lambda \leq 100 \quad \text{W} \cdot \text{m}^{-2} \cdot \text{sr}^{-1}$		P
4.3.4	Retinal blue light hazard exposure limit - small source		N/A
	Thus the spectral irradiance at the eye Eλ, weighted against the blue-light hazard function B(λ) shall not exceed the levels defined by:		N/A
	for t ≤ 100 s $E_B \cdot t = \sum_{300}^{700} E_{\lambda}(\lambda, t) \cdot B(\lambda) \cdot \Delta\lambda \leq 100 \quad \text{J} \cdot \text{m}^{-2}$		N/A
	for t > 100 s $E_B = \sum_{300}^{700} E_{\lambda} \cdot B(\lambda) \cdot \Delta\lambda \leq 1 \quad \text{W} \cdot \text{m}^{-2}$		N/A
4.3.5	Retinal thermal hazard exposure limit		P
	To protect against retinal thermal injury, the integrated spectral radiance of the light source, Lλ, weighted by the burn hazard weighting function R(λ) (from Figure 4.2 and Table 4.2), i.e., the burn hazard weighted radiance, shall not exceed the levels defined by:		P
	$I_R = \sum_{380}^{1400} I_{\lambda} \cdot R(\lambda) \cdot \Delta\lambda \leq \frac{50\,000}{\alpha \cdot t^{0,25}} \quad \text{W} \cdot \text{m}^{-2} \cdot \text{sr}^{-1} \quad (10 \mu\text{s} \leq t \leq 10 \text{s})$		P
4.3.6	Retinal thermal hazard exposure limit – weak visual stimulus		N/A
	For an infrared heat lamp or any near-infrared source where a weak visual stimulus is inadequate to activate the aversion response, the near infrared (780 nm to 1400 nm) radiance, LIR, as viewed by the eye for exposure times greater than 10 s shall be limited to:		N/A
	t > 10 s $L_{IR} = \sum_{780}^{1400} L_{\lambda} \cdot R(\lambda) \cdot \Delta\lambda \leq \frac{6\,000}{\alpha} \quad \text{W} \cdot \text{m}^{-2} \cdot \text{sr}^{-1}$		N/A
4.3.7	Infrared radiation hazard exposure limits for the eye		P



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Clause	Requirement + Test Result – Remark		Verdict
	The avoid thermal injury of the cornea and possible delayed effects upon the lens of the eye (cataractogenesis), ocular exposure to infrared radiation, EIR, over the wavelength range 780 nm to 3000 nm, for times less than 1000 s, shall not exceed:		P
	$E_{IR} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta\lambda \leq 18\,000 \cdot t^{-0,75} \quad W \cdot m^{-2}$		P
	For times greater than 1000 s the limit becomes:		P
	$E_{IR} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta\lambda \leq 100 \quad W \cdot m^{-2}$		P
	Thermal hazard exposure limit for the skin		
4.3.8	Visible and infrared radiant exposure (380 nm to 3000 nm) of the skin shall be limited to:		P
			P
	$E_H \cdot t = \sum_{380}^{3000} \sum_t E_{\lambda}(\lambda, t) \cdot \Delta t \cdot \Delta\lambda \leq 20\,000 \cdot t^{0,25} \quad J \cdot m^{-2}$		P
5 MEASUREMENT OF LAMPS AND LAMP SYSTEMS			
5.1 Measurement conditions			P
Measurement conditions shall be reported as part of the evaluation against the exposure limits and the assignment of risk classification.			P
5.1.1 Lamp ageing (seasoning)			P
Seasoning of lamps shall be done as stated in the appropriate IEC lamp standard.			P
5.1.2 Test environment			P
For specific test conditions, see the appropriate IEC lamp standard or in absence of such standards, the appropriate national standards or manufacturer's recommendations.			P
5.1.3 Extraneous radiation			P
Careful checks should be made to ensure that extraneous sources of radiation and reflections do not add significantly to the measurement results.			P
5.1.4 Lamp operation			P P
Operation of the test lamp shall be provided in accordance with:			N/A
the appropriate IEC lamp standard, or			



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Clause	Requirement + Test Result – Remark		Verdict
5.1.5	– the manufacturer’s recommendation		N/A
	Lamp system operation		N/A
	The power source for operation of the test lamp shall be provided in accordance with:		N/A
	– the appropriate IEC standard, or		N/A
5.2	– the manufacturer’s recommendation		N/A
5.2.1	Measurement procedure		P
	Irradiance measurements		P
	Minimum aperture diameter 7mm.		P
	Maximum aperture diameter 50 mm.		P
	The measurement shall be made in that position of the beam giving the maximum reading.		P
5.2.2	The measurement instrument is adequate calibrated.		P
5.2.2.1	Radiance measurements		P
	Standard method		P
	The measurements made with an optical system.		P
	The instrument shall be calibrated to read in absolute radiant power per unit receiving area and per unit solid angle to acceptance averaged over the field of view of the instrument.		
	Alternative method		
5.2.2.2	Alternatively to an imaging radiance set-up, an irradiance measurement set-up with a circular field stop placed at the source can be used to perform radiance measurements.		N/A
	Measurement of source size		N/A
5.2.3	The determination of α , the angle subtended by a source, requires the determination of the 50% emission points of the source.		P
	Pulse width measurement for pulsed sources		P
5.2.4	The determination of Δt , the nominal pulse duration of a source, requires the determination of the time during which the emission is > 50% of its peak value.		N/A
	Analysis methods		N/A
5.3	Weighting curve interpolations		P
5.3.1			P



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Clause	Requirement + Test Result – Remark		Verdict
	To standardize interpolated values, use linear interpolation on the log of given values to obtain intermediate points at the wavelength intervals desired.		P
5.3.2	Calculations		P
	The calculation of source hazard values shall be performed by weighting the spectral scan by the appropriate function and calculating the total weighted energy.		P
5.3.3	Measurement uncertainty		P
	The quality of all measurement results must be quantified by an analysis of the uncertainty.	see Annex C in the norm	P
6	LAMP CLASSIFICATION		P
	For the purposes of this standard it was decided that see table 6.1 the values shall be reported as follows:		P
	– for lamps intended for general lighting service, 200 mm; the hazard values shall be reported as either irradiance or radiance values at a distance which produces an illuminance of 500 lux, but not at a distance less than 200 mm		P
	– for all other light sources, including pulsed lamp sources, the hazard values shall be reported at a distance of 200 mm		N/A
6.1	Continuous wave lamps		P
6.1.1	Except Group		P
	In the except group are lamps, which does not pose any photobiological hazard. The requirement is met by any lamp that does not pose:		P
	– an actinic ultraviolet hazard (ES) within 8-hours exposure (30000 s), nor		P
	– a near-UV hazard (EUVA) within 1000 s, (about 16 min), nor		P P
	– a retinal blue-light hazard (LB) within 10000 s (about 2,8 h), nor		P
6.1.2	– a retinal thermal hazard (LR) within 10 s, nor		P
	– an infrared radiation hazard for the eye (EIR) within 1000 s		N/A
	Risk Group 1 (Low-Risk)		



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Clause	Requirement + Test Result – Remark		Verdict
	In this group are lamps, which exceeds the limits for the except group but that does not pose:		N/A
	– an actinic ultraviolet hazard (ES) within 10000 s, nor		N/A
	– a near ultraviolet hazard (EUVA) within 300 s, nor		N/A
	– a retinal blue-light hazard (LB) within 100 s, nor		N/A
	– a retinal thermal hazard (LR) within 10 s, nor		N/A
	– an infrared radiation hazard for the eye (EIR) within 100 s		N/A
	Lamps that emit infrared radiation without a strong visual stimulus and do not pose a near-infrared retinal hazard (LIR), within 100 s are in Risk Group 1.		
6.1.3	Risk Group 2 (Moderate-Risk)		N/A
	This requirement is met by any lamp that exceeds the limits for Risk Group 1, but that does not pose:		N/A
	– an actinic ultraviolet hazard (ES) within 1000 s exposure, nor		N/A
	– a near ultraviolet hazard (EUVA) within 100 s, nor		N/A
	– a retinal blue-light hazard (LB) within 0,25 s (aversion response), nor		N/A
	– a retinal thermal hazard (LR) within 0,25 s (aversion response), nor		N/A
	– an infrared radiation hazard for the eye (EIR) within 10 s		N/A
	Lamps that emit infrared radiation without a strong visual stimulus and do not pose a near-infrared retinal hazard (LIR), within 10 s are in Risk Group 2.		
	Risk Group 3 (High-Risk)		
6.1.4	Lamps which exceed the limits for Risk Group 2 are in Group 3.		N/A
6.2	Pulsed lamps		N/A
	Pulse lamp criteria shall apply to a single pulse and to any group of pulses within 0,25 s.		N/A
	A pulsed lamp shall be evaluated at the highest nominal energy loading as specified by the manufacturer.		N/A
	The risk group determination of the lamp being tested shall be made as follows:		N/A



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Clause	Requirement + Test Result – Remark		Verdict

	– a lamp that exceeds the exposure limit shall be classified as belonging to Risk Group 3 (High-Risk)		N/A
	– for single pulsed lamps, a lamp whose weighted radiant exposure or weighted radiance does is below the EL shall be classified as belonging to the Exempt Group		N/A
	– for repetitively pulsed lamps, a lamp whose weighted radiant exposure or weighted radiance dose is below the EL, shall be evaluated using the continuous wave risk criteria discussed in clause 6.1, using time averaged values of the pulsed emission		N/A



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Clause	Requirement + Test Result – Remark	Verdict	

Table 4.1 Spectral weighting function for assessing ultraviolet hazards for skin and eye			
Wavelength λ , nm	UV hazard function $SUV(\lambda)$	Wavelength λ , nm	UV hazard function $SUV(\lambda)$
200	0,030	313*	0,006
205	0,051	315	0,003
210	0,075	316	0,0024
215	0,095	317	0,0020
220	0,120	318	0,0016
225	0,150	319	0,0012
230	0,190	320	0,0010
235	0,240	322	0,00067
240	0,300	323	0,00054
245	0,360	325	0,00050
250	0,430	328	0,00044
254*	0,500	330	0,00041
255	0,520	333*	0,00037
260	0,650	335	0,00034
265	0,810	340	0,00028
270	1,000	345	0,00024
275	0,960	350	0,00020
280*	0,880	355	0,00016
285	0,770	360	0,00013
290	0,640	365*	0,00011
295	0,540	370	0,000093
297*	0,460	375	0,000077
300	0,300	380	0,000064
303*	0,120	385	0,000053
305	0,060	390	0,000044
308	0,026	395	0,000036
310	0,015	400	0,000030
¹ Wavelengths chosen are representative: other values should be obtained by logarithmic interpolation at intermediate wavelengths. * Emission lines of a mercury discharge spectrum.			



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Clause Requirement + Test Result – Remark		Verdict

Table 4.2 Spectral weighting functions for assessing retinal hazards from broadband optical sources		
Wavelength nm B (λ)	Blue-light hazard function	Burn hazard function R (λ)
300 0,01		
305 0,01		
310 0,01		
315 0,01		
320 0,01		
325 0,01		
330 0,01		
335 0,01		
340 0,01		
345 0,01		
350 0,01		
355 0,01		
360 0,01		
365 0,01		
370 0,01		
375 0,01		
380 0,01 0,1		
385 0,013 0,13		
390 0,025 0,25		
395 0,05 0,5		
400 0,10 1,0		
405 0,20 2,0		
410 0,40 4,0		
415 0,80 8,0		
420 0,90 9,0		
425 0,95 9,5		
430 0,98 9,8		
435 1,00 10,0		
440 1,00 10,0		
445 0,97 9,7		
450 0,94 9,4		
455 0,90 9,0		
460 0,80 8,0		
465 0,70 7,0		
470 0,62 6,2		
475 0,55 5,5		
480 0,45 4,5		
485 0,40 4,0		
490 0,22 2,2		
495 0,16 1,6		
500-600 10[(450-λ)/50] 1,0		
600-700 0,001 1,0		
TRF No. IEC62471A		



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Clause	Requirement + Test Result – Remark	Verdict	

Table 4.2	Spectral weighting functions for assessing retinal hazards from broadband optical sources			
	700-1050	$10[(700-\lambda)/500]$		
	1050-1150	0,2		
	1150-1200	$0,2.100,02(1150-\lambda)$		
	1200-1400	0,02		



Table 5.5 Summary of the ELs for the retina (radiance based values)					
Wavelength Exposure EL in terms of Field of view radians nm sec W•m-2•sr-1)	Hazard Name	Relevant equation	range	duration	constant radiance
0,25 – 10 0,011 • V(t/10) 106/t					
10-100 0,011 106/t					
Blue light LB = $\sum \lambda \cdot B(\lambda) \cdot \Delta \lambda$ 300 – 700					
100-10000 0,0011 • vt 106/t					
≥ 10000 0,1 100					
< 0,25 0,0017 50000/(α•t 0,25) Retinal • R(λ) • Δλ 380 – 1400					
0,25-10 0,011 • V(t/10) 50000/(α•t 0,25) Normal					
Retinal thermal (weak visual stimulus)	LIR = $\sum \lambda \cdot R(\lambda) \cdot \Delta \lambda$	780 – 1400	> 10	0,011	6000/α



Clause Requirement + Test Result – Remark	Verdict
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Table 6.1 Emission limits for risk groups of continuous wave lamps ($\alpha=65,21\text{mrad}$)										P
Action Risk Symbol Spectrum Limit Result	Units	Exempt	Low risk Limit Result	Emission Measurement						Mod risk Limit Result
Actinic UV S(λ) E -2 UVs W•m	0,001	1.062E-04	0,003 ---						0,03 ---	
Near UV E-2 UVA W•m	10	1.260E-04	33 ---						100 ---	
Blue light B(λ) L -2-1 B W•m•sr	100	1.320E-04	10000 ---						4000000 ---	
Blue light, B(λ) E -2 B W•m	1,0*	0,000	1,0						400 ---	
Small source Retinal										
R(λ) L -2-1R W•m•sr	28000/ α	3.3160	28000/ α						71000/ α ---	
thermal Retinal										
R(λ) L -2-1IR W•m•sr	6000/ α	0,000	6000/ α						6000/ α ---	
thermal weak visual stimulus**										
IR radiation, E -2 IR W•m	100	1.012E-01	570						3200 ---	
eye										
* Small source defined as one with $\alpha < 0,011$ radian. Averaging field of view at 10000 s is 0,1 radian.										
** Involves evaluation of non-GLS source										



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Clause	Requirement + Test	Result – Remark	Verdict

Clause	Measurement / testing	Testing / measuring equipment / material used	Range used	Calibration date
5	Irradiance and Radiance measurements	UV Radiation Safety Measurement System SENSING	200 – 3000 nm	Last cal. date: 2022-11-12 Next cal. date: 2023-11-11



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Clause	Requirement + Test	Result – Remark	Verdict

	Annex 1: European Group Differences and National Differences	P
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ATTACHMENT TO TEST REPORT IEC 62471 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES PHOTOBIOLOGICAL SAFETY OF LAMPS AND LAMPS SYSTEMS	
Differences according : EN 62471:2008	
Annex Form No. :EU_GD_IEC62471A	
Annex Form Originator :IMQ S.p.A.	
Master Annex Form :2009-07	
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CENELEC COMMON MODIFICATIONS (EN)

4 EXPOSURE LIMITS		P -
		--
	Contents of the whole Clause 4 of IEC 62471:2006 moved into a new informative Annex ZB	---
	Clause 4 replaced by the following:	P
	Limits of the Artificial Optical Radiation Directive (2006/25/EC) have been applied instead of those fixed in IEC 62471:2006	P
4.1	General	P
	First paragraph deleted	Noted



IEC 62471									
				Clause Requirement + Test Result – Remark					Verdict
Table 6.1 Emission limits for risk groups of continuous wave lamps (based on EU Directive 2006/25/ec) P									
Emission Measurement									
Risk Symbol Units Exempt Low risk Mod risk									
Action spectrum	Limit Result	Limit Result	Limit Result						
Actinic UV S(λ) E W•m-2 UVs	0,001	1.062E-04	---						
Near UV -- E W•m-2 UVA	0,33	1.260E-04	---						
Blue light B(λ) L W•m-2•sr-1 B	100	1.320E-04	10000 --- 4000000						
Blue light, B(λ) E W•m-2 B	1,0*	0,000	1,0 --- 400 ---						
Small source									
Retinal thermal	R(λ) L R W•m-2•sr-1	28000/α	3.3160 28000/α --- 71000/α ---						
545000									
0,0017≤α---									
Retinal thermal, ≤0,011									
R(λ) L W•m-2•sr-1IR									
weak visual stimulus**									
0,011≤α≤0,000									
0,1									
IR radiation, eye	E W•m-2 IR	100	1.012E-01 570 --- 3200 ---						
* Small source defined as one with α < 0,011 radian. Averaging field of view at 10000 s is 0,1 radian.									
** Involves evaluation of non-GLS source									



IEC 62471			
Clause	Requirement + Test	Result – Remark	Verdict

Details of:	Annex 2: Product photo	
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FL007

View: ☒ [x] general ☐ [] front ☐ [] rear ☐ [] right ☐ [] left ☐ [] top ☐ [] bottom ☐ [] Internal	
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Details of: FL007

View: ☒ [x] general ☐ [] front ☐ [] rear ☐ [] right ☐ [] left ☐ [] top ☐ [] bottom ☐ [] Internal	
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IEC 62471			
Clause	Requirement + Test	Result – Remark	Verdict

Details of: LEDs

View:

[x] general

[] front

[] rear

[] right

[] left

[] top

[] bottom

[x] Internal



--End of report--