

Shenzhen Toby Technology Co., Ltd.

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EN62471 Test Report

Application No. : TB13035242

Applicant: BREE LIGHTING Co., LIMITED

Equipment Under Test (EUT)

EUT Name : Led Flood Light

Model No. : BR-FL-10W-01-PIR

BR-FL-10W, BR-FL-20W, BR-FL-30W, BR-FL-50W, BR-FL-100W, BR-FL-120W, BR-FL-140W,

Serial No. BR-FL-20W-01-PIR, BR-FL-30W-01-PIR, BR-FL-10W-01-RGB,

BR-FL-20W-01-RGB, BR-FL-30W-01-RGB,

BR-FL-60W-01-RGB.

Brand Name : BREE LIGHTING

Issue Date : 2013-2-25

Standards : EN 62471:2008

Photobiological safety of lamps and lamp systems

Lamp

Classification

Group

Exempt

Report by :

Checked by

Tom Ziu. Aaron Zhai

Approved by :

CE

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TB-RF-076-3.0





TEST REPORT IEC/EN 62471

Photobiological safety of lamps and lamp systems

Report Reference No...... TB-LA136904

Total number of pages 16

Testing Laboratory Shenzhen Toby Technology Co., Ltd.

& Technology Park, Nanshan District, Shenzhen, China

Applicant's name..... BREE LIGHTING Co., LIMITED

Address Bld. M & J, Maoyuan Industrial, Zhangkenjing Xiawei, Guanlan,

Bao'an, Shenzhen, China

Test specification:

Standard..... EN 62471:2008

Test procedure LVD Test Procedure

Non-standard test method.....: N/A

Test Report Form No...... IEC/EN 62471

TRF Originator...... TOBY

Master TRF Dated 2009-05

Test item description Led Flood Light
Trade Mark BREE LIGHTING

Model/Type reference BR-FL-10W-01-PIR

Ratings AC 220-240V, 50-60Hz, 280mA,10W



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Summary of testing:	
Tests performed (name of test and test clause): All clauses. The model was complied with the requirements of Exempt Group LED Product according to EN62471:2008.	Testing location: Shenzhen Toby Technology Co., Ltd. 10/F., A Block, Jiada R & D Bldg., No.5 Songpingshan Road, Science & Technology Park, Nanshan District, Shenzhen, China
Summary of compliance with National Differences: European group deviation.	
Copy of marking plate: N/A	



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Test item particulars.....: LED Spotlight Tested lamp.....: 🖂 continuous wave lamps pulsed lamps Tested lamp system...... N/A Lamp classification group: 🖂 exempt ☐ risk 1 risk 2 ☐ risk 3 Lamp cap....: N/A Bulb: LED Rated of the lamp..... AC 220-240V 50-60Hz Furthermore marking on the lamp N/A Seasoning of lamps according IEC standard Aging 1h Used measurement instrument According to standard instruments of EN 62471:2008 Temperature by measurement 25 °C Information for safety use Exempt group 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) Date of receipt of test item 2013-02-17 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. For European group deviation, see attachment. **General product information:** The product was complied with the requirements of Exempt group LED Product according to EN 62471:2008



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	IEC/EN 62471		
CL.	Requirement of the test	ResultRemark	Verdict
4	EXPOSURE LIMITS		P
4.1	General		Р
	The exposure limits in this standard is not less than		Р
	0,01 ms and not more than any 8-hour period and should be used as guides in the control of exposure		
	Detailed spectral data of a light source are	see clause 4.3	Р
	generally required only if the luminance of the	300 014400 4.0	· ·
	source exceeds 104 cd.m-2		
4.3	Hazard exposure limits		Р
4.3.1	Actinic UV hazard exposure limit for the skin and		Р
	eye		
	The exposure limit for effective radiant exposure is		Р
	30 J.m-2 within any 8-hour period		
	To protect against injury of the eye or skin from		Р
	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:		
			Р
	$E_{s} \cdot t = \sum_{200}^{400} \sum_{t} E_{\lambda}(\lambda, t) \cdot S_{UV}(\lambda) \cdot \Delta t \cdot \Delta \lambda \le 30 \qquad \text{J·m}^{-2}$		
	200 f		
	The permissible time for exposure to ultraviolet		Р
	radiation incident upon the unprotected eye or skin		Г
	shall be computed by:		
	•		Р
	$t_{\text{max}} = \frac{30}{E_{\text{s}}}$		
	E _S		
4.3.2	Near-UV hazard exposure limit for eye		Р
	For the spectral region 315 nm to 400 nm (UV-A)		Р
	the total radiant exposure to the eye shall not		
	exceed10000 J.m-2 for exposure times less than 1000 s. For exposure times greater than 1000 s		
	(approximately16 minutes) the UV-A irradiance for		
	the unprotected eye, EUVA, shall not exceed 10		
	W.m-2.		
	The permissible time for exposure to ultraviolet		Р
	radiation incident upon the unprotected eye for time		
	less than 1000 s, shall be computed by:		_
	10000		Р
	$t_{\text{max}} \le \frac{10000}{E_{\text{UVA}}}$		
4.3.3	Retinal blue light hazard exposure limit		Р
7.0.0	To protect against retinal photochemical injury		P
	from chronic blue-light exposure, the integrated		
	spectral radiance of the light source weighted		
	against the blue-light hazard function, $B(\lambda)$, i.e., the		
	blue-light weighted radiance , LB, shall not exceed		
	the levels defined by:		
	$L_{\rm B} \cdot t = \sum_{n=0}^{700} \sum_{n} L_{\lambda}(\lambda, t) \cdot B(\lambda) \cdot \Delta t \cdot \Delta \lambda \le 10^6 \text{ J} \cdot \text{m}^{-2} \cdot \text{sr}^{-1}$	for t ≤10 ⁴ s	Р
	300 f		
	700	for t $>10^4$ s	Р
	$L_{\rm B} = \sum L_{\lambda} \cdot B(\lambda) \cdot \Delta \lambda \le 100 \qquad \qquad W \cdot m^{-2} \cdot sr^{-1}$		
	300		





	IEC/EN 62471		
CL.	Requirement of the test	ResultRemark	Verdict
4.3.4	Retinal blue light hazard exposure limit - small source		N
	Thus the spectral irradiance at the eye $E\lambda$, weighted against the blue-light hazard function $B(\lambda)$ shall not exceed the levels defined by:		N
	$E_{\rm B} \cdot t = \sum_{200}^{700} \sum_{\lambda} E_{\lambda}(\lambda, t) \cdot B(\lambda) \cdot \Delta t \cdot \Delta \lambda \le 100 \text{ J} \cdot \text{m}^{-2}$	for $t \le 10^4$ s	N
	$E_{\rm B} = \sum_{300}^{700} E_{\lambda} \cdot B(\lambda) \cdot \Delta \lambda \le 1 \qquad W \cdot m^{-2}$	for t >10 ⁴ s	N
4.3.5	Retinal thermal hazard exposure limit		Р
	To protect against retinal thermal injury, the integrated spectral radiance of the light source, $L\lambda$, weighted by the burn hazard weighting function $R(\lambda)$ (from Figure 4.2 and Table 4.2), i.e., the burn hazard weighted radiance, shall not exceed the levels de-fined by:		Р
	$L_{\rm R} = \sum_{380}^{1400} L_{\lambda} \cdot R(\lambda) \cdot \Delta \lambda \le \frac{50000}{\alpha \cdot t^{0.25}}$ W·m ⁻² ·sr ⁻¹	(10us ≤ t ≤ 10 s)	Р
4.3.6	Retinal thermal hazard exposure limit – weak visual stimulus		N
	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
	$L_{\rm IR} = \sum_{780}^{1400} L_{\lambda} \cdot R(\lambda) \cdot \Delta \lambda \le \frac{6000}{\alpha} $ W·m ⁻² ·sr ⁻¹	t > 10 s	N
4.3.7	Infrared radiation hazard exposure limits for the eye		Р
	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:		Р
	$E_{IR} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta \lambda \le 18000 \cdot t^{-0.75}$ W · m ⁻²	t ≤1000 s	Р
	For times greater than 1000 s the limit becomes:		Р
	$E_{\rm IR} = \sum_{k=0}^{3000} E_{\lambda} \cdot \Delta \lambda \le 100 \qquad W \cdot m^{-2}$	t > 1000 s	Р
4.3.8	$E_{\rm IR} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta \lambda \le 100$ W · m ⁻² Thermal nazaru exposure iinii ioi ine Skin		Р
	Visible and infrared radiant exposure (380 nm to 3000 nm) of the skin shall be limited to:		Р
	$E_{H} \cdot t = \sum_{380}^{3000} \sum_{t} E_{\lambda}(\lambda, t) \cdot \Delta t \cdot \Delta \lambda \le 20000 \cdot t^{0.25} \qquad J \cdot m^{-2}$		Р

MEASUREMENT OF LAMPS AND LAMP SYSTEMS	P
Measurement conditions	Р





IEC/EN 62471 CL. Result--Remark Verdict Requirement of the test Р Measurement conditions shall be reported as part of the evaluation against the exposure limits and the assignment of risk classification. 5.1.1 Lamp ageing (seasoning) Seasoning of lamps shall be done as stated in the appropriate IEC lamp standard. 5.1.2 Test environment For specific test conditions, see the appropriate IEC lamp standard or in absence of such standards, the appropriate national standards or manufacturer's recommendations. 5.1.3 Extraneous radiation Р Careful checks should be made to ensure that extraneous sources of radiation and reflections do not add significantly to the measurement results. 5.1.4 Lamp operation Ν Operation of the test lamp shall be provided in accordance with: -- the appropriate IEC lamp standard, or -- the manufacturer's recommendation Ν 5.1.5 Lamp system operation Ρ The power source for operation of the test lamp Р shall be provided in accordance with: -- the appropriate IEC standard, or Ν -- the manufacturer's recommendation Р 5.2 Measurement procedure Р 5.2.1 Irradiance measurements Р Minimum aperture diameter 7mm. Р Maximum aperture diameter 50 mm. Р The measurement shall be made in that position of Р the beam giving the maximum reading. The measurement instrument is adequate Р calibrated. 5.2.2 Radiance measurements Р 5.2.2.1 Standard method Р The measurements made with an optical system. Ρ 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. 5.2.2.2 Alternative method Alternatively to an imaging radiance set-up, an ir-Р radiance measurement set-up with a circular field stop placed at the source can be used to perform radiance measurements. 5.2.3 Measurement of source size The determination of α, the angle subtended by a source, requires the determination of the 50% emission points of the source. Pulse width measurement for pulsed sources 5.2.4 Ν 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.





	IEC/EN 62471		
CL.	Requirement of the test	ResultRemark	Verdict
	,	1	4
5.3	Analysis methods		Р
5.3.1	Weightingcurve interpolations		Р
	To standardize interpolated values, use linear interpolation on the log of given values to obtain intermediate points at the wavelength intervals desired.		Р
5.3.2	Calculations		Р
	The calculation of source hazard values shall be performed by weighting the spectral scan by the appropriate function and calculating the total weighted energy.		Р
5.3.3	Measurement uncertainty	See Annex C in the norm	Р
	The quality of all measurement results must be quantified by an analysis of the uncertainty.		Р

6	LAMP CLASSIFICATION	P
	For the purposes of this standard it was decided	Р
	that the values shall be reported as follows:	
	for lamps intended for general lighting service,	Р
	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	
	for all other light sources, including pulsed lamp	N
	sources, the hazard values shall be reported at a	
	distance of 200 mm	
6.1	Continuous wave lamps	P
6.1.1	Exempt Group	Р
	In the exempt group are lamps, which does not	Р
	pose any photobiological hazard. The requirement	
	is met by any lamp that does not pose:	
	an actinic ultraviolet hazard (ES) within 8-hours	P
	exposure (30000 s), nor	
	a near-UV hazard (EUVA) within 1000 s, (about	P
	16 min), nor	
	a retinal blue-light hazard (LB) within 10000 s	P
	(about 2,8 h), nor	
	a retinal thermal hazard (LR) within 10 s, nor	P
	an infrared radiation hazard for the eye (EIR)	Р
	within 1000 s	
6.1.2	Risk Group 1 (Low-Risk)	N
	In this group are lamps, which exceeds the limits	N
	for the exempt group but that does not pose:	
	an actinic ultraviolet hazard (ES) within 10000 s,	N
	nor	
	a near ultraviolet hazard (EUVA) within 300 s, nor	N
	a retinal blue-light hazard (LB) within 100 s, nor	N
	a retinal thermal hazard (LR) within 10 s, nor	N
	an infrared radiation hazard for the eye (EIR)	N
	within	
	100 s	



TOBY

	IEC/EN 62471		
CL.	Requirement of the test	ResultRemark	Verdict
	Lamps that emit infrared radiation without a strong		N
	visual stimulus and do not pose a near-infrared		
	retinal hazard (LIR), within 100 s are in Risk Group		
0.4.0	1.		N.
6.1.3	Risk Group 2 (Moderate-Risk)		N N
	This requirement is met by any lamp that exceeds the limits for Risk Group 1, but that does not pose:		N
	an actinic ultraviolet hazard (ES) within 1000 s		N
	exposure, nor		IN IN
	a near ultraviolet hazard (EUVA) within 100 s, nor		N
	a retinal blue-light hazard (LB) within 0,25 s		N
	(aversion response), nor		
	a retinal thermal hazard (LR) within 0,25 s		N
	(aversion response), nor		
	an infrared radiation hazard for the eye (EIR)		N
	within		
	10 s		N.
	Lamps that emit infrared radiation without a strong		N
	visual stimulus and do not pose a near-infrared retinal hazard (LIR), within 10 s are in Risk Group		
	2.		
6.1.4	Risk Group 3 (High-Risk)		N
	Lamps which exceed the limits for Risk Group 2 are		N
	in Group 3.		
6.2	Pulsed lamps		N
	Pulse lamp criteria shall apply to a single pulse and		N
	to any group of pulses within 0,25 s.		
	A pulsed lamp shall be evaluated at the highest		N
	nominal energy loading as specified by the		
	manufacturer.		N
	The risk group determination of the lamp being tested shall be made as follows:		IN
	a lamp that exceeds the exposure limit shall be		N
	classified as belonging to Risk Group 3(High-Risk)		
	for single pulsed lamps, a lamp whose weighted		N
	radiant exposure or weighted radiance does is		
	below the EL shall be classified as belonging to the		
	Exempt Group		
	for repetitively pulsed lamps, a lamp whose		N
	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		
	61111991011	1	1



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Table 4.1	Spectral weighting function skin and eye	ectral weighting function for assessing ultraviolet hazards for n and eye		
Wavelength ¹ λ, nm	UV hazard function S _{υν} (λ)	Wavelength λ, nm	UV ha funct S _{uv} (ion λ)
200	0.030	313*	0.00	06
205	0.051	315	0.00)3
210	0.075	316	0.00	24
215	0.095	317	0.00	20
220	0.120	318	0.00	16
225	0.150	319	0.00	12
230	0.190	320	0.00	10
235	0.240	322	0.000	067
240	0.300	323	0.000)54
245	0.360	325	0.000)50
250	0.430	328	0.000)44
254	0.500	330	0.000)41
255	0.520	333	0.000)37
260	0.650	335	0.000)34
265	0.810	340	0.000)28
270	1.000	345	0.000)24
275	0.960	350	0.000)20
280	0.880	355	0.000)16
285	0.770	360	0.000)13
290	0.640	365	0.000)11
295	0.540	370	0.000	093
297	0.460	375	0.000077	
300	0.300	380	0.000	064
303	0.120	385	0.000	053
305	0.060	390	0.000	044
308	0.026	395	0.000	036
310	0.015	400	0.000	030

310 0.015 400 0.000030

Wavelengths chosen are representative: other values should be obtained by logarithmic interpolation at intermediate wavelengths.

* Emission lines of a mercury discharge spectrum.





Table 4.2	Spectral weighting functions for a hazards from broadband opti	ssessing retinal cal sources
Wavelength	Blue-light hazard function	n Burn hazard function
nm	Β (λ)	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	0.1	1.0
405	0.2	2.0
410	0.4	4.0
415	0.8	8.0
420	0.9	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 10 ^[(450-λ)/50]	1.6
500-600		1.0
600-700	0.001	1.0 10 ^[(700-\lambda)/500]
700-1050		
1050-1150 1150-1200	-	0.2 0,2·10 ^{0,02(1150-λ)}
	-	
1200-1400	-	0.02





Table 5.4		ummary of the ELs for the surface of the skin or cornea (irradiance based llues)						
Hazard Name		Relevant equation	Wavelength range nm	Exposure duration sec	Limiting aperture rad (deg)	EL in terms of con- stant irradiance W•m-2		
Actinic U\	V	$E_S = \sum E_{\lambda} \cdot S(\lambda) \cdot$	200 - 400	<30000	1.4(80)	30/t		
Skin & ey	е	Δλ						
Eye UV-A	4	$E_{UVA} = \sum E\lambda \cdot \Delta\lambda$	315 - 400	≤1000	1.4(80)	10000/t		
				>1000		10		
Blue-light	t	$E_B = \sum E \lambda \bullet B(\lambda) \bullet$	300 - 700	≤100	<0.011	100/t		
Small sour	се	Δλ		>100		1.0		
Eye IR		$E_{IR} = \sum E\lambda \cdot \Delta\lambda$	780 - 3000	≤1000	1.4(80)	18000/t 0,75		
				>1000		100		
Skin therm	nal	$E_H = \sum E \lambda \bullet \Delta \lambda$	380 - 3000	<10	2π sr	20000/t 0,75		

Table 5.5	Summary	of the ELs for the	e retina (radiano	e based values	5)	
Hazard Name	Relevant equation	Wavelength range nm	Exposure duration sec	Field of view radians	EL in terr constant ra W•m-2•s	diance
Blue light	$L_{B} = \sum L\lambda \cdot B(\lambda) \cdot \Delta\lambda$	300 - 700	0.25 – 10 10 – 100 100-10000 ≥10000	0,011•√(t/10) 0,011 0,0011•√t 0,1	106/1 106/1 106/1 100	t t
Retinal thermal	$L_{R} = \sum_{\Delta \lambda} \cdot R(\lambda) \cdot \Delta \lambda$	380 -1400	<0.25 0.25 -10	0,0017 0,011•√(t/10)	50000/(α•t	,
Retinal Thermal (weak visual Stimulus)	$L_{IR} = \sum_{\lambda} L\lambda \cdot R(\lambda) \cdot \Delta\lambda$	780 - 1400	>10	0.011	6000/	α



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Table 6.1		Emission limits for risk groups of continuous wave lamps							Р
Risk	·				Emission Measurement			ent	
	Action spectrum	Symbol	Units	Exe	empt	Low	risk	Mod	risk
	- Op - Ou			Limit	Result	Limit	Result	Limit	Result
Actinic UV	S _{UV} (λ)	E _s	W•m ⁻²	0.001	0.0005	0.003		0.03	
Near UV	-	E _{uva}	W•m ⁻²	10	0.00085	33		100	
Blue light	Β(λ)	L _B	W•m ⁻² •sr ⁻¹	100	6.25	10000		4000000	
Blue light, small source	Β(λ)	E _B	W•m ⁻²	1.0		1.0		400	
Retinal thermal	R(λ)	L _R	W•m ⁻² •sr ⁻¹	28000/ α	125.60(α=65.60 mrad)	28000/α	1	71000/α	1
Retinal Thermal, Weak visual stimulus	R(λ)	L _{IR}	W•m ⁻² •sr ⁻¹	6000/α		6000/α	1	6000/α	I
IR radiation, eye		E _{IR}	W•m ⁻²	100	1.65	570		3200	

Remark:

Angular subtense of apparent source, α=*mrad

* Small source defined as one with 0 < 0,011 radian. Averaging field of view at 10000 s is 0,1 radian.

** Involves evaluation of non-GLS source





ATTACHMENT TO TEST REPORT IEC 62471 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Photobiological safety of lamps and lamps systems

Differences according to EN 62471:2008

Attachment Form No...... EU_GD_IEC62471A

Attachment Originator: IMQ S.p.A.

Master Attachment: 2009-07

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	CENELEC COMMON MODIFICATIONS (EN) EXPOSURE LIMITS				
4					
	Contents of the whole Clause 4 of IEC 62471:2006 moved into a new informative Annex ZB		_		
	Clause 4 replaced by the following:	Р			
	Limits of the Artificial Optical Radiation Directive (2006/25/EC) have been applied instead of those fixed in IEC 62471:2006	See appended table 6.1	Р		
4.1	General		Р		
	First paragraph deleted		_		



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	Emission limits for risk groups of continuous wave lamps (Base on directive: 2006/25/EC)								Р
	Action spectrum	Symbol	Units	Emission Measurement					
Risk				Exempt		Low risk		Mod risk	
				Limit	Result	Limit	Result	Limit	Result
Actinic UV	$S_{UV}(\lambda)$	Es	W•m ⁻²	0,001	0.0005		-		1
Near UV		E _{UVA}	W•m ⁻²	0,33	0.00085				-
Blue light	Β(λ)	L_B	W•m ⁻² •sr ⁻¹	100	6.25	10000		4000000	-
Blue light, small source	Β(λ)	E _B	W•m ⁻²	0.01*		1.0		400	
Retinal thermal	R(λ)	LR	W•m-2•sr-1	28000/α	125.60(α= 65.60mra d)	28000/α		71000/α	
Retinal thermal,	R(λ)	LIR	W•m-2•sr-1	545000 0,0017≤ α ≤ 0,011					
weak visual stimulus**				6000/α 0,011≤ α ≤ 0,1					
IR radiation, eye		E _{IR}	W•m ⁻²	100	1.65	570		3200	

Remark:

Angular subtense of apparent source, α =9.8mrad

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





EUT Photos

Photo 1 View of EUT



END OF REPORT