

TEST REPORT On Behalf of

Mid Ocean Brands B.V.

Flame light led wax candle

Model No.: MO2365

Prepared for: Mid Ocean Brands B.V.

Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kow-

loon, Hong Kong

Prepared by: Shenzhen Alpha Product Testing Co., Ltd.

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518103, Shenzhen, Guangdong, China

Date of Test: April 17, 2024

Date of Report: April 18, 2024

Report Number: A2404122-C01-R01

Version Number: V0

TEST REPORT IEC 62471

Photobiological safety of lamps and lamp systems

Report Reference No...... A2404122-C01-R01

Tested by (name + signature) Max Peng

Approved by (name + signature).....: Marco Fu

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Total number of pages 17pages

Testing Laboratory...... Shenzhen Alpha Product Testing Co., Ltd.

Address Building i, No.2, Lixin Road, Fuyong Street, Bao'an District,

518103, Shenzhen, Guangdong, China

Testing location/ procedure TL 🖂 RMT 🗌 SMT 🔲 WMT 🔲 TMP 🗍

Applicant's name...... Mid Ocean Brands B.V.

loon, Hong Kong

Test specification:

Standard IEC 62471:2006 (First Edition)

Test procedure Type-test report

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

Test Report Form No...... IEC62471B

Master TRF...... Dated 2018-08-16

Test item description : Flame light led wax candle

Model/Type reference MO2365

Model difference N/A

Manufacturer Mid Ocean Brands B.V.

loon, Hong Kong

Trademark: N/A

Ratings 3.0V === (supplied by 3V button cell)

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Test item particulars	
Tested lamp:	
Tested lamp system:	
Lamp classification group:	⊠ exempt ☐ risk 1 ☐ risk 2 ☐ risk 3
Lamp cap:	N/A
Bulb:	
Rated of the lamp:	DC3.0V
Furthermore marking on the lamp:	
Seasoning of lamps according IEC standard:	
Used measurement instrument:	OST-500 system
Temperature by measurement:	23 ± 2 °C
Information for safety 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:	April 16, 2024
Date (s) of performance of tests	April 17, 2024
General remarks:	
The test results presented in this report relate only to the This report shall not be reproduced, except in full, without "(See Enclosure #)" refers to additional information at "(See appended table)" refers to a table appended to the Throughout this report a comma (point) is used as the Decision rules for the conclusion of this test report: declarement uncertainty. List of test equipment must be kept on file and available.	but the written approval of the Issuing testing laboratory. Depended to the report. The report. The decimal separator. The decimal separator. The decimal separator decimal test data without considering meas-
Summary of the test report	
 The complete report including following parts: All clauses of IEC 62471:2006; Differences between IEC 62471:2006 and EN 62 Appendix 1: Equipment List; Appendix 2: Photo Documentation. 	
Summary of compliance with National Differences	S:
List of countries addressed:	
EU Group Differences The product fulfile the requirements of EN 62471:	2008
The product fulfils the requirements of EN 62471:2	2000.
General product information:	
1. Product: Flame light led wax candle.	
2. The unit classification is the Exempt Group.	

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		IEC 62471		
Clause	Requirement + Test		Result – Remark	Verdict

4	EXPOSURE LIMITS		Р
4.1	General		Р
	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		Р
	Detailed spectral data of a light source are generally required only if the luminance of the source exceeds 10 ⁴ cd ⁻ m ⁻²	See clause 4.3	N/A
4.3	Hazard exposure limits		Р
4.3.1	Actinic UV hazard exposure limit for the skin and eye		Р
	The exposure limit for effective radiant exposure is 30 J·m ⁻² within any 8-hour period		Р
	To protect against injury of the eye or skin from ultraviolet radiation exposure produced by a broadband source, the effective integrated spectral irradiance , E_S , of the light source shall not exceed the levels defined by:		Р
	$E_{s} \cdot t = \sum_{200}^{400} \sum_{t} E_{\lambda}(\lambda, t) \cdot S_{UV}(\lambda) \cdot \Delta t \cdot \Delta \lambda \le 30$ J·m ⁻²		Р
	The permissible time for exposure to ultraviolet radiation incident upon the unprotected eye or skin shall be computed by:		Р
	$t_{\text{max}} = \frac{30}{E_{\text{s}}} \qquad \text{s}$		Р
4.3.2	Near-UV hazard exposure limit for eye		Р
	For the spectral region 315 nm to 400 nm (UV-A) the 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 _{UVA} , shall not exceed 10 W·m ⁻² .		Р
	The permissible time for exposure to ultraviolet radiation incident upon the unprotected eye for time less than 1000 s, shall be computed by:		Р
	$t_{\text{max}} \le \frac{10\ 000}{E_{\text{UVA}}} \qquad \text{s}$		Р
4.3.3	Retinal blue light hazard exposure limit		Р
	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, $B(\lambda)$, i.e., the blue-light weighted radiance , L_B , shall not exceed the levels defined by:		Р
	$L_{B} \cdot t = \sum_{300}^{700} \sum_{t} L_{\lambda}(\lambda, t) \cdot B(\lambda) \cdot \Delta t \cdot \Delta \lambda \le 10^{6} \qquad J \cdot m^{-2} \cdot sr^{-1}$	for $t \le 10^4 \text{ s}$ $t_{\text{max}} = \frac{10^6}{L_{\text{B}}}$	N/A

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	$L_{\rm B} = \sum_{k=1}^{700} L_{\lambda} \cdot B(\lambda) \cdot \Delta \lambda \le 100 \qquad \qquad W \cdot m^{-2} \cdot sr^{-1}$	for $t > 10^4$ s	Р
424	300	1	N1/A
4.3.4	Retinal blue light hazard exposure limit - small source	e 	N/A
	Thus the spectral irradiance at the eye E_{λ} , weighted against the blue-light hazard function $B(\lambda)$ shall not exceed the levels defined by:	See table 4.2	N/A
	$E_{B} \cdot t = \sum_{300}^{700} \sum_{t} E_{\lambda}(\lambda, t) \cdot B(\lambda) \cdot \Delta t \cdot \Delta \lambda \le 100 \qquad J \cdot m^{-2}$	for t ≤ 100 s	N/A
	$E_{B} = \sum_{300}^{700} E_{\lambda} \cdot B(\lambda) \cdot \Delta \lambda \le 1 \qquad W \cdot m^{-2}$	for t > 100 s	N/A
4.3.5	Retinal thermal hazard exposure limit		Р
	To protect against retinal thermal injury, the integrated spectral radiance of the light source, L_{λ} , 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 defined 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	(10 µs ≤ t ≤ 10 s)	N/A
4.3.6	Retinal thermal hazard exposure limit – weak visual s	stimulus	Р
	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, L _{IR} , as viewed by the eye for exposure times greater than 10 s shall be limited to:		P
	$L_{\rm IR} = \sum_{780}^{1400} L_{\lambda} \cdot R(\lambda) \cdot \Delta \lambda \le \frac{6000}{\alpha} \qquad W \cdot m^{-2} \cdot \text{sr}^{-1}$		N/A
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, $E_{\rm IR}$, over the wavelength range 780 nm to 3000 nm, for times less than 1000 s, shall not exceed:		Р
	$E_{\text{IR}} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta \lambda \le 18000 \cdot t^{-0.75}$ W · m ⁻²	t ≤ 1000 s	N/A
	For times greater than 1000 s the limit becomes:		Р
	$E_{\rm IR} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta \lambda \le 100$ W·m ⁻²	t>1000 s	Р
4.3.8	Thermal hazard exposure limit for the skin	•	Р
	Visible and infrared radiant exposure (380 nm to 3000 nm) of the skin shall be limited to:		Р

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	$E_{H} \cdot t = \sum_{380}^{3000} \sum_{t} E_{\lambda} (\lambda, t) \cdot \Delta t \cdot \Delta \lambda \le 20000 \cdot t^{0,25} \qquad J \cdot m^{-2}$		Р
5	MEASUREMENT OF LAMPS AND LAMP SYSTEM	s	Р
5.1	Measurement conditions		Р
	Measurement conditions shall be reported as part of the evaluation against the exposure limits and the assignment of risk classification.		Р
5.1.1	Lamp ageing (seasoning)	Not lamps	N/A
	Seasoning of lamps shall be done as stated in the appropriate IEC lamp standard.		N/A
5.1.2	Test environment		Р
	For specific test conditions, see the appropriate IEC lamp standard or in absence of such standards, the appropriate national standards or manufacturer's recommendations.		Р
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.		Р
5.1.4	Lamp operation		N/A
	Operation of the test lamp shall be provided in accordance with:		N/A
	 the appropriate IEC lamp standard, or 		N/A
	 the manufacturer's recommendation 		N/A
5.1.5	Lamp system operation		Р
	The power source for operation of the test lamp shall be provided in accordance with:		Р
	 the appropriate IEC standard, or 		N/A
	 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 the beam giving the maximum reading.		Р
	The measurement instrument is adequate calibrated.		Р
5.2.2	Radiance measurements		Р
5.2.2.1	Standard method		N/A
	The measurements made with an optical system.		N/A
	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.		N/A

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Clause	Requirement + Test	Result – Remark	Verdict
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5.2.2.2	Alternative method		N/A
	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
5.2.3	Measurement of source size		Р
	The determination of α , the angle subtended by a source, requires the determination of the 50% emission points of the source.		Р
5.2.4	Pulse width measurement for pulsed sources		N/A
	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
5.3	Analysis methods		Р
5.3.1	Weighting curve interpolations		Р
	To standardize interpolated values, use linear interpolation on the log of given values to obtain intermediate points at the wavelength intervals desired.	See table 4.1	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		Р
	The quality of all measurement results must be quantified by an analysis of the uncertainty.	See Annex C in the norm	Р
6	LAMP CLASSIFICATION		Р
	For the purposes of this standard it was decided that the values shall be reported as follows:	See table 6.1	Р
	 for lamps intended for general lighting service, the hazard values shall be reported as either ir- radiance or radiance values at a distance which produces an illuminance of 500 lux, but not at a distance less than 200 mm 		N/A
	 for all other light sources, including pulsed lamp sources, the hazard values shall be reported at a distance of 200 mm 		Р
6.1	Continuous wave lamps	•	Р
6.1.1	Exempt Group		Р
	In the exempt group are lamps, which don't pose any photobiological hazard. The requirement is met by any lamp that does not pose:		Р
	 an actinic ultraviolet hazard (E_s) within 8-hours exposure (30000 s), nor 		Р
	 a near-UV hazard (E_{UVA}) within 1000 s, (about 16 min), nor 		Р

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		1	,
	 a retinal blue-light hazard (L_B) within 10000 s (about 2,8 h), nor 		Р
	 a retinal thermal hazard (L_R) within 10 s, nor 		Р
	$-$ an infrared radiation hazard for the eye (E $_{\text{IR}})$ within 1000 s		Р
6.1.2	Risk Group 1 (Low-Risk)		N/A
	In this group are lamps, which exceeds the limits for the except group but that does not pose:		N/A
	 an actinic ultraviolet hazard (E_s) within 10000 s, nor 		N/A
	 a near ultraviolet hazard (E_{UVA}) within 300 s, nor 		N/A
	 a retinal blue-light hazard (L_B) within 100 s, nor 		N/A
	 a retinal thermal hazard (L_R) within 10 s, nor 		N/A
	 an infrared radiation hazard for the eye (E_{IR}) within 100 s 		N/A
	Lamps that emit infrared radiation without a strong visual stimulus and do not pose a near-infrared retinal hazard ($L_{\rm IR}$), within 100 s are in Risk Group 1.		N/A
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 (E_s) within 1000 s exposure, nor 		N/A
	 a near ultraviolet hazard (E_{UVA}) within 100 s, nor 		N/A
	 a retinal blue-light hazard (L_B) within 0,25 s (aversion response), nor 		N/A
	 a retinal thermal hazard (L_R) within 0,25 s (aversion response), nor 		N/A
	 an infrared radiation hazard for the eye (E_{IR}) within 10 s 		N/A
	Lamps that emit infrared radiation without a strong visual stimulus and do not pose a near-infrared retinal hazard (L_{IR}), within 10 s are in Risk Group 2.		N/A
6.1.4	Risk Group 3 (High-Risk)	-	N/A
	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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	 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 	Э	N/A

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able 4.1 Spectral we	eighting function for assessing u	ultraviolet hazards for sl	kin and eye	Р
Wavelength¹ λ, nm	UV hazard function S _{υν} (λ)	Wavelength λ, nm	UV hazard fu S _ω (λ)	nction
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	0,00009	3
297*	0,460	375	0,00007	7
300	0,300	380	0,00006	4
303*	0,120	385	0,00005	3
305	0,060	390	0,00004	4
308	0,026	395	0,00003	6
310	0,015	400	0,00003)

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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Wavelength Blue-light hazard function Burn hazard function						
Table 4.2	Spectral weighting fun sources	ctions for assessing retinal hazards	from broadband optical	Р		

Wavelength	Blue-light hazard function	Burn hazard function
nm	Bide-light hazard function B (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	0,10	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
700-1050	5,501	1,0 10 ^[(700-\lambda)/500]
1050-1150	+	<u> </u>
1150-1200	+	0,2 0,2·10 ^{0,02(1150-λ)}
1200-1400	+	0,02

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Table 5.4	Su	mmary of the ELs for the	sed values) P			
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 UV skin & eye		$E_{S} = \sum E_{\lambda} \bullet S(\lambda) \bullet \Delta \lambda$	200 – 400	< 30000	1,4 (80)	30/t
Eye UV-A		$E_{UVA} = \sum E_{\lambda} \bullet \Delta \lambda$	315 – 400	≤1000 >1000	1,4 (80)	10000/t 10
Blue-light small source		$E_B = \sum E_\lambda \bullet B(\lambda) \bullet \Delta \lambda$	300 – 700	≤100 >100	< 0,011	100/t 1,0
Eye IR		$E_{IR} = \sum E_{\lambda} \bullet \Delta \lambda$	780 –3000	≤1000 >1000	1,4 (80)	18000/t ^{0,75} 100
Skin thermal		$E_H = \sum E_\lambda \bullet \Delta \lambda$	380 – 3000	< 10	2π sr	20000/t ^{0,75}

Table 5.5	Summary of the ELs for the retina (radiance based values)						Р
Hazard Name Blue light Retinal thermal Retinal (weak visual stimulus)		Relevant equation	Wavelength range nm	Exposure duration sec	Field of view radians	EL in ter constant r W•m ⁻²	adiance
		$L_{B} = \sum L_{\lambda} \cdot B(\lambda) \cdot \Delta \lambda$	300 – 700	0,25 - 10 10-100 100-10000 ≥ 10000	0,011•√(t/10) 0,011 0,0011•√t 0,1	10 ⁶ 10 ⁶ 10 ⁶	/t /t
		$L_{R} = \sum L_{\lambda} \cdot R(\lambda) \cdot \Delta \lambda$	380 – 1400	< 0,25 0,25 – 10	0,0017 0,011•√(t/10)	50000/(d 50000/(d	
		$L_{IR} = \sum L_{\lambda} \bullet R(\lambda) \bullet \Delta \lambda$	780 – 1400	> 10	0,011	6000)/α

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Table 6.1	Emission limits for risk groups of continuous wave lamps								Р
					Е	mission M	leasuremer	nt	
Risk	Action spectrum	Symbol	Units	Exe	empt	Lov	v risk	Mod risk	
	- γ - σ - π - π - π - π - π - π - π - π - π			Limit	Result	Limit	Result	Limit	Result
Actinic UV	S _{UV} (λ)	Es	W•m⁻²	0,001	2.97e-06	0,003	ı	0,03	ı
Near UV		E _{UVA}	W•m⁻²	10	7.88e-05	33	ı	100	ı
Blue light	Β(λ)	L _B	W•m ⁻² •sr ⁻¹	100	1.29e-02	10000	ı	4000000	ı
Blue light, small source	Β(λ)	E _B	W•m⁻²	1,0*	-	1,0	-	400	1
Retinal thermal	R(λ)	L _R	W•m ⁻² •sr ⁻¹	28000/α	3.00e+00	28000/α	-	71000/α	-
Retinal thermal, weak visual stimulus**	R(λ)	L _{IR}	W•m ⁻² •sr ⁻¹	6000/α	3.16e-01	6000/α	-	6000/α	
IR radia- tion, eye		E _{IR}	W•m ⁻²	100	1.84e-03	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

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		IEC 62471B ATTACHME	NT	
Clause	Requirement + Test		Result – Remark	Verdict

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

TRF template used IECEE OD-2020-F2:2020, Ed. 1.1

Attachment Form No...... EU_GD_IEC62471B

Attachment Originator: OVE

Master Attachment: Dated 2021-04-29

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	CENELEC COMMON MODIFICATIONS (EN)					
4	EXPOSURE LIMITS					
	Contents of the whole Clause 4 of IEC 62471:2006 moved into a new informative Annex ZB	_				
	Clause 4 replaced by the following:	Р				
	The original Clause 4 of IEC 62471:2006 contains provisions governing limiting values for the exposure of persons falling within the area of the health and safety of workers. Within Europe those limiting values are already covered by the Artificial Optical Radiation Directive (2006/25/EC). Thus, the limits of the directive have to be applied instead of those fixed in IEC 62471:2006.	P				
	There are no differences in EN 62471:2008 regarding the classification of lamps according Clause 6 of IEC 62471:2006.	_				
4.1	General	N/A				
	Delete the first paragraph.	_				

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Table 6.1		Emission limits for risk groups of continuous wave lamps (based on EU Directive 2006/25/EC)							Р	
					Emi	ssion Mea	asurement	<u>'</u>		
Risk	Action spectrum	Symbol	Units	Exe	empt	Low	risk	Mod	Mod risk	
				Limit	Result	Limit	Result	Limit	Result	
Actinic UV	$S_{UV}(\lambda)$	Es	W•m⁻²	0,001	2.97e-06	-	ı	•	-	
Near UV		E _{UVA}	W•m⁻²	0,33	7.88e-05	-	ı	•	-	
Blue light	Β(λ)	L_B	W•m ₁ ⁻² •sr	100	1.29e-02	10000	-	4000000	-	
Blue light, small source	Β(λ)	E _B	W•m⁻²	0,01	-	1,0	-	400	-	
Retinal thermal	R(λ)	L_R	W•m ₁ ⁻² •sr	28000/α	3.00e+00	28000/α	-	71000/α	-	
Retinal thermal,	R(λ)	L_{IR}	W•m ⁻² •sr ⁻	545000 0,0017≤ α ≤ 0,011	-					
weak visual stimulus**		—IIX	,	6000/α 0,011≤ α ≤ 0,1 3.16e-01						
IR radia- tion, eye		E _{IR}	W•m ⁻²	100	1.84e-03 570 - 3200 -				-	

^{*} Small source defined as one with α < 0,011 radian. Averaging field of view at 10000 s is 0.1 radian.

NOTE The action functions: see Table 4.1 and Table 4.2

The applicable aperture diameters: see 4.2.1

The limitations for the angular subtenses: see 4.2.2

The related measurement condition 5.2.3 and the range of acceptance angles: see Table 5.5.

 α = 0.0295 radian.

^{**} Involves evaluation of non-GLS source

Appendix 1 Equipment List

No.	Equipment	Manufacturer	Model No.	Serial No.	Calibration date	Calibration due date
Aa-SE193	Horizontal distributed photometer	EVERFINE	GO-2000B	G105623CM5 361116	2022.05.26	2024.05.25
Aa-SE194	ological Safety Analysis		PMS-700	G107114CJ1 341112	2022.08.16	2024.08.15
Aa-SE195			RD-2000F	G114280CM1 361115	2022.08.18	2024.08.17
Aa-SE196	Pupil Imaging Radiance Meter	EVERFINE	CX-2K	G132536CF1 361113	2022.08.16	2024.08.15
Aa-SE198	Digital CC&CV DC Power Supply	EVERFINE	WY3010	G111418CM5 361135	2023.07.25	2024.07.24
Aa-SE319 High Accuracy Array Spectrora		EVERFINE	HAAS-2000 -IR1	M112279CM1 361113	2022.08.16	2024.08.15
Aa-SE232 Electric humiture grapher		Accurate	TH10W-E	HHW-008	2023.07.31	2024.07.30

Appendix 2
Photo documentation

РНОТО 1	
View:	
[√] front	
[] rear	
[] right side	
[√] left side	
[] top	20 20 20 20 20 20 20 20 20 20 20 20 20 2
[√] bottom	of the second second
[] internal	11/20 of 11/1/11/10 or of 11/1/11/10 or
	11/1/20 08 01/11/11/11/19
	11/2° 0. 05 11/11/11
	0, 111

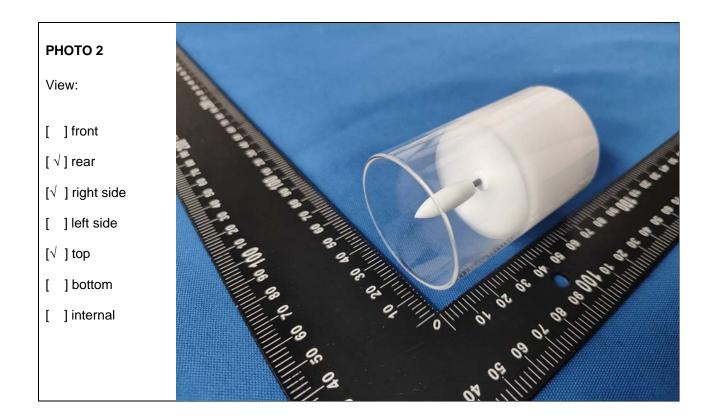
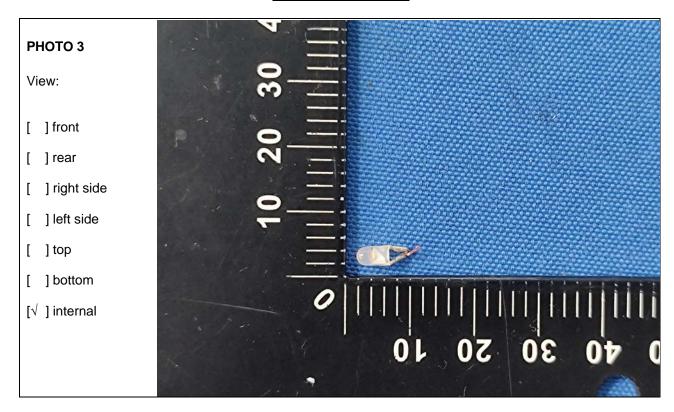


Photo documentation



-End of report-