



TEST REPORT

Report No.: STSGZ2409113054E-V1

Date: 12-Sep-2025

Page 1 of 18

Applicant: Mid Ocean Brands B.V.

Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

Sample name: stepless dimming table lamp 1200mAh battery

Model/Style/Item #: MO2478

Vendor code: 107978

Receiving Date: 11-Sep-2024

Test Period: From 11-Sep-2024 to 19-Sep-2024

Add Information: This report replaces the original report STSGZ2409113054E and the original report is invalid

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	PHOTOBIOLOGICAL SAFETY OF LAMPS AND LAMP SYSTEMS	IEC 62471:2006	PASS

Signed for and on behalf of SGS

Mark Mai
(Technical Director)



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TEST REPORT

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Date: 12-Sep-2025

Page 2 of 18

Result:

1. PHOTOBIOLOGICAL SAFETY OF LAMPS AND LAMP SYSTEMS

IEC 62471:2006

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 10^4 cd m^{-2}	see clause 4.3	N/A
4.3	Hazard exposure limits		P
4.3.1	Actinic UV hazard exposure limit for the skin and eye		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 broadband source, the effective integrated spectral irradiance, E_s , of the light source shall not exceed the levels defined by:		P
	$E_s \cdot t = \sum_{200}^{400} \sum_t E_\lambda(\lambda, t) \cdot S_{UV}(\lambda) \cdot \Delta t \cdot \Delta \lambda \leq 30 \text{ J m}^{-2}$		P
	The permissible time for exposure to ultraviolet radiation incident upon the unprotected eye or skin shall be computed by:		P
	$t_{max} = \frac{30}{E_s} \text{ s}$		P
4.3.2	Near-UV hazard exposure limit for eye		P
	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} .		P

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Report No.: STSGZ2409113054E-V1

Date: 12-Sep-2025

Page 3 of 18

	The permissible time for exposure to ultraviolet radiation incident upon the unprotected eye for time less than 1000 s, shall be computed by:		P
	$t_{\max} \leq \frac{10\ 000}{E_{UVA}} \quad \text{s}$		P
4.3.3	Retinal blue light hazard exposure limit		P
	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:		P
	$L_B \cdot t = \sum_{300}^{700} L_{\lambda}(\lambda, t) \cdot B(\lambda) \cdot \Delta t \cdot \Delta \lambda \leq 10^6 \quad \text{J} \cdot \text{m}^{-2} \cdot \text{sr}^{-1}$	for $t \leq 10^4 \text{ s}$	$t_{\max} = \frac{10^6}{L_B}$
	$L_B = \sum_{300}^{700} L_{\lambda} \cdot B(\lambda) \cdot \Delta \lambda \leq 100 \quad \text{W} \cdot \text{m}^{-2} \cdot \text{sr}^{-1}$	for $t > 10^4 \text{ s}$	N/A
4.3.4	Retinal blue light hazard exposure limit - small source		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
	$E_B \cdot t = \sum_{300}^{700} E_{\lambda}(\lambda, t) \cdot B(\lambda) \cdot \Delta t \cdot \Delta \lambda \leq 100 \quad \text{J} \cdot \text{m}^{-2}$	for $t \leq 100 \text{ s}$	N/A
	$E_B = \sum_{300}^{700} E_{\lambda} \cdot B(\lambda) \cdot \Delta \lambda \leq 1 \quad \text{W} \cdot \text{m}^{-2}$	for $t \leq 100 \text{ s}$	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, 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:		P
	$L_R = \sum_{380}^{1400} L_{\lambda} \cdot R(\lambda) \cdot \Delta \lambda \leq \frac{50\ 000}{\alpha \cdot t^{0,25}} \quad \text{W} \cdot \text{m}^{-2} \cdot \text{sr}^{-1}$	$(10 \mu\text{s} \leq t \leq 10 \text{ s})$	N/A
4.3.6	Retinal thermal hazard exposure limit – weak visual stimulus		P
	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
	$L_{IR} = \sum_{780}^{1400} L_{\lambda} \cdot R(\lambda) \cdot \Delta \lambda \leq \frac{6\ 000}{\alpha} \quad \text{W} \cdot \text{m}^{-2} \cdot \text{sr}^{-1}$	$t > 10 \text{ s}$	P

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Date: 12-Sep-2025

Page 4 of 18

4.3.7	Infrared radiation hazard exposure limits for the eye	P
	The avoid thermal injury of the cornea and possible delayed effects upon the lens of the eye (cataractogenesis), ocular exposure to infrared radiation, E_{IR} , over the wavelength range 780 nm to 3000 nm, for times less than 1000 s, shall not exceed:	P
	$E_{IR} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta\lambda \leq 18000 \cdot t^{-0.75} \quad W \cdot m^{-2}$	$t \leq 1000 \text{ s}$
	For times greater than 1000 s the limit becomes:	P
	$E_{IR} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta\lambda \leq 100 \quad W \cdot m^{-2}$	$t > 1000 \text{ s}$
4.3.8	Thermal hazard exposure limit for the skin	P
	Visible and infrared radiant exposure (380 nm to 3000 nm) of the skin shall be limited to:	P
	$E_{H \cdot t} = \sum_{380}^{3000} \sum_{\lambda} E_{\lambda}(\lambda, t) \cdot \Delta t \cdot \Delta\lambda \leq 20000 \cdot t^{0.25} \quad J \cdot m^{-2}$	P
5	MEASUREMENT OF LAMPS AND LAMP SYSTEMS	P
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)	N/A
	Seasoning of lamps shall be done as stated in the appropriate IEC lamp standard.	N/A
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	N/A
	Operation of the test lamp shall be provided in accordance with:	N/A

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Report No.: STSGZ2409113054E-V1

Date: 12-Sep-2025

Page 5 of 18

	– the appropriate IEC lamp standard, or		N/A
	– the manufacturer' s recommendation		N/A
5.1.5	Lamp system operation		P
	The power source for operation of the test lamp shall be provided in accordance with:		P
	– the appropriate IEC standard, or		N/A
	– the manufacturer' s recommendation		P
5.2	Measurement procedure		P
5.2.1	Irradiance measurements		P
	Minimum aperture diameter 7 mm.		P
	Maximum aperture diameter 50 mm.		P
	The measurement shall be made in that position of the beam giving the maximum reading.		P
	The measurement instrument is adequate calibrated.		P
5.2.2	Radiance measurements		P
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
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		P
	The determination of α , the angle subtended by a source, requires the determination of the 50% emission points of the source.		P
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		P
5.3.1	Weighting curve interpolations		P

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Date: 12-Sep-2025

Page 6 of 18

	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	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 the values shall be reported as follows:	see table 6.1	P
	<ul style="list-style-type: none">– for lamps intended for general lighting service, 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
	<ul style="list-style-type: none">– 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
	<ul style="list-style-type: none">– an actinic ultraviolet hazard (E_S) within 8-hours exposure (30000 s), nor		P
	<ul style="list-style-type: none">– a near-UV hazard (E_{UVA}) within 1000 s, (about 16 min), nor		P
	<ul style="list-style-type: none">– a retinal blue-light hazard (L_B) within 10000 s (about 2,8 h), nor		P
	<ul style="list-style-type: none">– a retinal thermal hazard (L_R) within 10 s, nor		P
	<ul style="list-style-type: none">– an infrared radiation hazard for the eye (E_{IR}) within 1000 s		P
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

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Date: 12-Sep-2025

Page 7 of 18

	<ul style="list-style-type: none"> – an actinic ultraviolet hazard (E_S) within 10000 s, nor 		N/A
	<ul style="list-style-type: none"> – a near ultraviolet hazard (E_{UVA}) within 300 s, nor 		N/A
	<ul style="list-style-type: none"> – a retinal blue-light hazard (L_B) within 100 s, nor 		N/A
	<ul style="list-style-type: none"> – a retinal thermal hazard (L_R) within 10 s, nor 		N/A
	<ul style="list-style-type: none"> – 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_{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
	<ul style="list-style-type: none"> – an actinic ultraviolet hazard (E_S) within 1000 s exposure, nor 		N/A
	<ul style="list-style-type: none"> – a near ultraviolet hazard (E_{UVA}) within 100 s, nor 		N/A
	<ul style="list-style-type: none"> – a retinal blue-light hazard (L_B) within 0,25 s (aversion response), nor 		N/A
	<ul style="list-style-type: none"> – a retinal thermal hazard (L_R) within 0,25 s (aversion response), nor 		N/A
	<ul style="list-style-type: none"> – 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
	<ul style="list-style-type: none"> – a lamp that exceeds the exposure limit shall be classified as belonging to Risk Group 3 (High- Risk) 		N/A

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Report No.: STSGZ2409113054E-V1

Date: 12-Sep-2025

Page 8 of 18

	<ul style="list-style-type: none"> – 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
	<ul style="list-style-type: none"> – 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

Table 4.1 Spectral weighting function for assessing ultraviolet hazards for skin and eye		P	
Wavelength λ , nm	UV hazard function $S_{uv}(\lambda)$	Wavelength λ , nm	UV hazard function $S_{uv}(\lambda)$
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

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Date: 12-Sep-2025

Page 9 of 18

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 .

Table 4.2	Spectral weighting functions for assessing retinal hazards from broadband optical sources		N/A
Wavelength nm	Blue-light hazard function B (λ)	Burn hazard function R (λ)	
300	0.01		-
305	0.01		-
310	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

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Report No.: STSGZ2409113054E-V1

Date: 12-Sep-2025

Page 10 of 18

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	$10^{[(450-\lambda)/50]}$	1.0
600-700	0.001	1.0
700-1050	-	$10^{[(450-\lambda)/50]}$
1050-1150	-	0.2
1150-1200	-	$0.2 \cdot 10^{0.02(1150-\lambda)}$
1200-1400	-	0.02

Table 5.4 Summary of the ELs for the surface of the skin or cornea (irradiance based values)					P
Hazard Name	Relevant equation	Wavelength range nm	Exposure duration sec	Limiting aperture rad (deg)	EL in terms of constant irradiance $W \cdot m^{-2}$
Actinic UV skin & eye	$E_S = \sum E_\lambda \cdot S(\lambda) \cdot \Delta\lambda$	200 – 400	< 30000	1,4 (80)	30/t
Eye UV-A	$E_{UVA} = \sum E_\lambda \cdot \Delta\lambda$	315 – 400	≤ 1000 > 1000	1,4 (80)	$10000/t$ 10
Blue-light small source	$E_B = \sum E_\lambda \cdot B(\lambda) \cdot \Delta\lambda$	300 – 700	≤ 100 > 100	< 0,011	$100/t$ 1,0
Eye IR	$E_{IR} = \sum E_\lambda \cdot \Delta\lambda$	780 – 3000	≤ 1000 > 1000	1,4 (80)	$18000/t^{0,75}$ 100
Skin thermal	$E_H = \sum E_\lambda \cdot \Delta\lambda$	380 – 3000	< 10	2π sr	$20000/t^{0,75}$

Table 5.5 Summary of the ELs for the retina (radiance based values)					P
Hazard Name	Relevant equation	Wavelength range nm	Exposure duration sec	Field of view radians	EL in terms of constant radiance $W \cdot m^{-2} \cdot sr^{-1}$
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 $\cdot \sqrt{(t/10)}$ 0,011 0,0011 $\cdot \sqrt{t}$ 0,1	$10^6/t$ $10^6/t$ $10^6/t$ 100
Retinal thermal	$L_R = \sum L_\lambda \cdot R(\lambda) \cdot \Delta\lambda$	380 – 1400	< 0,25 0,25 – 10	0,0017 0,011 $\cdot \sqrt{(t/10)}$	$50000/(\alpha \cdot t^{0,25})$ $50000/(\alpha \cdot t^{0,25})$
Retinal thermal (weak visual stimulus)	$L_{IR} = \sum L_\lambda \cdot R(\lambda) \cdot \Delta\lambda$	780 – 1400	> 10	0,011	6000/ α

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Date: 12-Sep-2025

Page 11 of 18

Table 6.1 ¹⁾		Emission limits for risk groups of continuous wave lamps(High colour temperature)								P	
Risk	Action spectrum	Symbol	Units	Emission Measurement						P	
				Exempt		Low risk		Mod risk			
				Limit	Result	Limit	Result	Limit	Result		
Actinic UV	$S_{Uv}(\lambda)$	E_s	$W \cdot m^{-2}$	0,001	1.04e-05	0,003	-	0,03	-		
Near UV		E_{UVA}	$W \cdot m^{-2}$	10	1.86e-03	33	-	100	-		
Blue light	$B(\lambda)$	L_B	$W \cdot m^{-2} \cdot sr^{-1}$	100	2.35e+00	10000	-	4000000	-		
Blue light, small source	$B(\lambda)$	E_B	$W \cdot m^{-2}$	1,0*	-	1,0	-	400	-		
Retinal thermal	$R(\lambda)$	L_R	$W \cdot m^{-2} \cdot sr^{-1}$	28000/ α	3.64e+01	28000/ α	-	71000/ α	-		
Retinal thermal, weak visual stimulus**	$R(\lambda)$	L_{IR}	$W \cdot m^{-2} \cdot sr^{-1}$	6000/ α	1.19e+00	6000/ α	-	6000/ α	-		
IR radiation, eye		E_{IR}	$W \cdot m^{-2}$	100	1.66e-02	570	-	3200	-		

* 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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TEST REPORT

Report No.: STSGZ2409113054E-V1

Date: 12-Sep-2025

Page 12 of 18

Table 6.1 ²⁾		Emission limits for risk groups of continuous wave lamps(Low colour temperature)								P	
Risk	Action spectrum	Symbol	Units	Emission Measurement						P	
				Exempt		Low risk		Mod risk			
				Limit	Result	Limit	Result	Limit	Result		
Actinic UV	$S_{\text{Uv}}(\lambda)$	E_s	$\text{W}\cdot\text{m}^{-2}$	0,001	3.55e-08	0,003	-	0,03	-		
Near UV		E_{UVA}	$\text{W}\cdot\text{m}^{-2}$	10	2.15e-04	33	-	100	-		
Blue light	$B(\lambda)$	L_B	$\text{W}\cdot\text{m}^{-2}\cdot\text{sr}^{-1}$	100	1.58e-02	10000	-	4000000	-		
Blue light, small source	$B(\lambda)$	E_B	$\text{W}\cdot\text{m}^{-2}$	1,0*	-	1,0	-	400	-		
Retinal thermal	$R(\lambda)$	L_R	$\text{W}\cdot\text{m}^{-2}\cdot\text{sr}^{-1}$	28000/ α	4.73e+00	28000/ α	-	71000/ α	-		
Retinal thermal, weak visual stimulus**	$R(\lambda)$	L_{IR}	$\text{W}\cdot\text{m}^{-2}\cdot\text{sr}^{-1}$	6000/ α	2.00e-02	6000/ α	-	6000/ α	-		
IR radiation, eye		E_{IR}	$\text{W}\cdot\text{m}^{-2}$	100	7.21e-03	570	-	3200	-		

* 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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TEST REPORT

Report No.: STSGZ2409113054E-V1

Date: 12-Sep-2025

Page 13 of 18

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	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
	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.	See appended Table 6.1
	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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TEST REPORT

Report No.: STSGZ2409113054E-V1

Date: 12-Sep-2025

Page 14 of 18

Table 6.1 ¹⁾		Emission limits for risk groups of continuous wave lamps (based on EU Directive 2006/25/EC)(High colour temperature)								P	
Risk	Action spectrum	Symbol	Units	Emission Measurement						P	
				Exempt		Low risk		Mod risk			
				Limit	Result	Limit	Result	Limit	Result		
Actinic UV	S _{uv} (λ)	E _s	W·m ⁻²	0,001	1.04e-05	-	-	-	-		
Near UV		E _{UVA}	W·m ⁻²	0,33	1.86e-03	-	-	-	-		
Blue light	B(λ)	L _B	W·m ⁻² ·sr ⁻¹	100	2.35e+00	10000	-	4000000	-		
Blue light, small source	B(λ)	E _B	W·m ⁻²	0,01	-	1,0	-	400	-		
Retinal thermal	R(λ)	L _R	W·m ⁻² ·sr ⁻¹	28000/α	3.64e+01	28000/α	-	71000/α	-		
Retinal thermal, weak visual stimulus**	R(λ)	L _R	W·m ⁻² ·sr ⁻¹	545000	-						
				0,0017 ≤ α ≤ 0,011	-						
IR radiation, eye		E _{IR}	W·m ⁻²	6000/α	-						
				0,011 ≤ α ≤ 0,1	-						
IR radiation, eye		E _{IR}	W·m ⁻²	100	3.84e-03	570	-	3200	-		

* 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

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.

$\alpha = 0,1271$ radian.

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TEST REPORT

Report No.: STSGZ2409113054E-V1

Date: 12-Sep-2025

Page 15 of 18

Table 6.1 ²⁾		Emission limits for risk groups of continuous wave lamps (based on EU Directive 2006/25/EC) (Low colour temperature)								P	
Risk	Action spectrum	Symbol	Units	Emission Measurement							
				Exempt		Low risk		Mod risk			
				Limit	Result	Limit	Result	Limit	Result		
Actinic UV	S _{uv} (λ)	E _s	W·m ⁻²	0,001	3.55e-08	-	-	-	-	-	
Near UV		E _{UVA}	W·m ⁻²	0,33	2.15e-04	-	-	-	-	-	
Blue light	B(λ)	L _B	W·m ⁻² ·sr ⁻¹	100	1.58e-02	10000	-	4000000	-	-	
Blue light, small source	B(λ)	E _B	W·m ⁻²	0,01	-	1,0	-	400	-	-	
Retinal thermal	R(λ)	L _R	W·m ⁻² ·sr ⁻¹	28000/α	4.73e+00	28000/α	-	71000/α	-	-	
Retinal thermal, weak visual stimulus**	R(λ)	L _R	W·m ⁻² ·sr ⁻¹	545000	-						
				0,0017 ≤ α ≤ 0,011	-						
IR radiation, eye		E _{IR}	W·m ⁻²	6000/α	2.00e-02						
				0,011 ≤ α ≤ 0,1	2.00e-02						
IR radiation, eye		E _{IR}	W·m ⁻²	100	7.21e-03	570	-	3200	-	-	

* 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

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 = 0.0900 radian.

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TEST REPORT

Report No.: STSGZ2409113054E-V1

Date: 12-Sep-2025

Page 16 of 18

PHOTO 1

View:

- front
- rear
- right side
- left side
- top
- bottom
- internal



PHOTO 2

View:

Red

- front
- rear
- right side
- left side
- top
- bottom
- internal



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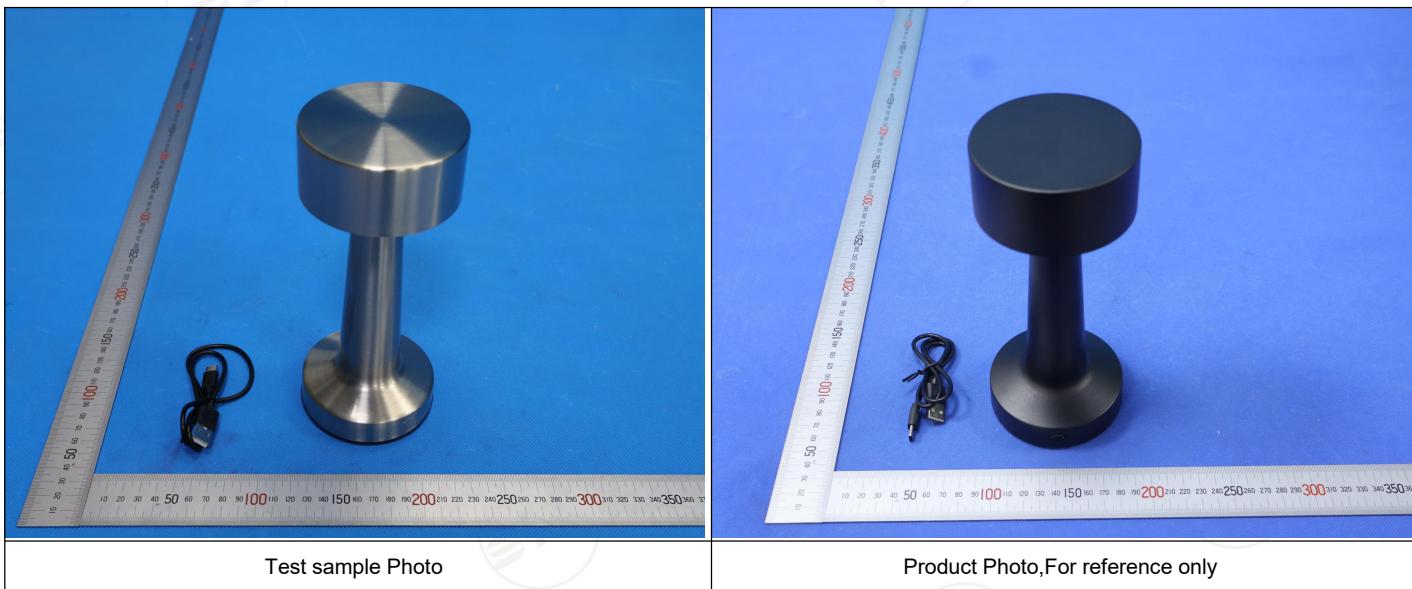
TEST REPORT

Report No.: STSGZ2409113054E-V1

Date: 12-Sep-2025

Page 17 of 18

Photo(s):



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TEST REPORT

Report No.: STSGZ2409113054E-V1

Date: 12-Sep-2025

Page 18 of 18

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