

TEST REPORT On Behalf of

Mid Ocean Brands B.V.

Star shaped MDF wood ornament with led light and hanging cord

Model No.: CX1527

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.

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

518103, Shenzhen, Guangdong, China

Date of Test: April 25, 2025

Date of Report: April 28, 2025

Report Number: A2504276-C04-R01

Version Number: V0

TEST REPORT IEC 62471

Photobiological safety of lamps and lamp systems

Report Reference No:	A2504276-C04-R01
Tested by (name + signature):	Max Peng Winston Chen A2504276-C04-R01 ALPHA PRODUCT ALPHA PRODUCT TESTING
Approved by (name + signature):	Winston Chen ALPHA PRODUCT TESTING ALPHA PRODUCT TESTING
Date of issue:	April 28, 2025
Total number of pages:	15 pages
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.
Address:	7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, 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
TRF Originator:	VDE Testing and Certification Institute
Master TRF:	Dated 2018-08-16
Test item description	Star shaped MDF wood ornament with led light and hanging cord
Model/Type reference:	CX1527
Model difference:	N/A
Manufacturer:	Mid Ocean Brands B.V.
Address:	7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Trademark:	N/A
Ratings:	4.5V (Supplied by 3*1.5V button batteries)

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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	DC 4.5V			
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 24, 2025			
Date (s) of performance of tests	April 25, 2025			
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 eomma (point) is used as the decimal separator. Decision rules for the conclusion of this test report: decision by actual test data without considering measurement uncertainty. List of test equipment must be kept on file and available for review.				
Summary of the test report The complete report including following parts: 1. All clauses of IEC 62471:2006; 2. Differences between IEC 62471:2006 and EN 62 3. Appendix 1: Photo Documentation.	471:2008, see the ATTACHMENT;			
Summary of compliance with National Difference	s:			
List of countries addressed:				
EU Group Differences The product fulfils the requirements of EN 62471:	2008			
IM THE PRODUCT TURNS THE REQUIREMENTS OF EN 0247 L.	2000.			

General product information:

- 1. Product: <u>Star shaped MDF wood ornament with led light and hanging cord.</u>
- 2. The unit classification is the Exempt Group.

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	IEC 62471		
Clause	Requirement + Test	Result – Remark	Verdict

4	EXPOSURE LIMITS	
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 10^4cd·m^{-2}	.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, Es, of the light source shall not exceed the levels defined by:	P
	$E_{s} \cdot t = \sum_{200}^{400} \sum_{t} E_{\lambda}(\lambda, t) \cdot S_{UV}(\lambda) \cdot \Delta t \cdot \Delta \lambda \le 30$ J·m ⁻²	P
	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 .	P
	The permissible time for exposure to ultraviolet radiation incident upon the unprotected eye for time less than 1000 s, shall be computed by:	Р
	$t_{\text{max}} \le \frac{10\ 000}{E_{\text{UVA}}} \qquad \qquad \text{s}$	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:	P
	$L_{B} \cdot t = \sum_{300}^{700} \sum_{t} L_{\lambda}(\lambda, t) \cdot B(\lambda) \cdot \Delta t \cdot \Delta \lambda \le 10^{6} \qquad J \cdot m^{-2} \cdot sr^{-1} for \ t \le 10^{4} \ s$	$t_{\text{max}} = \frac{10^6}{L_{\text{B}}}$ N/A

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	$L_{\rm B} = \sum_{300}^{700} L_{\lambda} \cdot B(\lambda) \cdot \Delta \lambda \le 100 \qquad \qquad W \cdot m^{-2} \cdot sr^{-1}$	for t > 10 ⁴ s	Р
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:		P
	$L_{\rm R} = \sum_{380}^{1400} L_{\lambda} \cdot R(\lambda) \cdot \Delta \lambda \le \frac{50000}{\alpha \cdot t^{0.25}}$ 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
	$L_{\rm IR} = \sum_{780}^{1400} L_{\lambda} \cdot R(\lambda) \cdot \Delta \lambda \le \frac{6000}{\alpha} \qquad \qquad \text{W} \cdot \text{m}^{-2} \cdot \text{sr}^{-1}$		Р
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
	$E_{\text{IR}} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta \lambda \le 18000 \cdot t^{-0.75}$ W · m ⁻²	t ≤ 1000 s	N/A
	For times greater than 1000 s the limit becomes:		Р
	$E_{\rm IR} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta \lambda \le 100 \qquad \qquad \mathbf{W} \cdot \mathbf{m}^{-2}$	t>1000 s	Р
4.3.8	Thermal hazard exposure limit for the skin	1	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 SYSTEMS		
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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5.2.2.2	Alternative method		N/A
	Alternatively to an imaging radiance set-up, an irra- diance measurement set-up with a circular field stop placed at the source can be used to perform radi- ance 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	P
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 		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		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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	 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_{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 (Euva) 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 (Es) 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 ($L_{\rm IR}$), 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 		N/A

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Wavele λ, n 20 20 21 21	nm 00 05	UV hazard function S _{υν} (λ) 0,030 0,051	Wavelength λ, nm 313*	UV hazard fu S _w (λ)	nction	
20)5	· ·	313*	0.000		
21		0,051		0,006		
	0		315	0,003		
21		0,075	316	0,0024		
	5	0,095	317	0,0020		
22	.0	0,120	318	0,0016		
22	:5	0,150	319	0,0012		
23	80	0,190	320	0,0010		
23	5	0,240	322	0,00067	,	
24	.0	0,300	323	0,00054	+	
24	5	0,360	325	0,00050)	
25	60	0,430	328	0,00044	+	
254	4*	0,500	330	0,00041		
25	55	0,520	333*	0,00037		
26	60	0,650	335	0,00034	+	
26	55	0,810	340	0,00028	;	
27	0	1,000	345	0,00024	+	
27	'5	0,960	350	0,00020		
280	0*	0,880	355	0,00016	;	
28	5	0,770	360	0,00013	,	
29	0	0,640	365*	0,00011		
29	15	0,540	370	0,00009	3	
297	7*	0,460	375	0,00007	7	
30	0	0,300	380	0,000064		
303	3*	0,120	385	0,00005	3	
30	15	0,060	390	0,000044		
30	18	0,026	395	0,00003	0,000036	
31	0	0,015	400	0,00003	0,000030	

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 sources	functions for assessing retinal hazards fr	om broadband optical	N/A		
	Wavelength nm	Blue-light hazard function B (λ)	Burn hazard func R (λ)	tion		
	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				
	395	0,05	0,5	0,5		
	400	0,10	1,0	1,0		
	405	0,20	2,0 4,0			
	410	0,40				
	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		10 ^[(700-λ)/500]			
	1050-1150		0,2			
	1150-1200		0,2·10 ^{0,02(1150-λ)}			
	1200-1400		0,02			

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Table 5.4	Su	Summary of the ELs for the surface of the skin or cornea (irradiance based values)							
Hazard Name		Relevant equation	Wavelength range nm	Exposure duration sec	Limiting EL in term aperture stant in rad (deg)		diance		
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)	1000 10			
Blue-light small source)	$E_B = \sum E_\lambda \bullet B(\lambda) \bullet \Delta \lambda$	300 – 700	≤100 >100	< 0,011	100 <i>i</i> 1,0			
Eye IR		$E_IR = \sum E_\lambda \bullet \Delta \lambda$	780 –3000	≤1000 >1000	1,4 (80)	18000/ 100			
Skin thermal		$E_H = \sum E_\lambda \bullet \Delta \lambda$	380 – 3000	< 10	2π sr	20000/	t ^{0,75}		

Table 5.5	Sun	Summary of the ELs for the retina (radiance based values)						
Hazard Name		Relevant equation	Wavelength range nm	Exposure duration sec	Field of view radians	EL in ter constant r W•m ⁻²	adiance	
Blue light		$L_{B} = \sum L_{\lambda} \bullet B(\lambda) \bullet \Delta \lambda$	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	
Retinal thermal		$L_{R} = \sum L_{\lambda} \cdot R(\lambda) \cdot \Delta \lambda$	380 – 1400	< 0,25 0,25 – 10	0,0017 0,011•√(t/10)	50000/(d 50000/(d	,	
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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Table 6.1	Emission I	imits for ri	sk groups o	f continuou	s wave lam	ps			Р
					Em	ission Me	asuremen	nt	
Risk	Action spectrum	Symbol	Units	Exe	mpt	Low	risk	Mod risk	
	.,			Limit	Result	Limit	Result	Limit	Result
Actinic UV	S∪∨(λ)	Es	W•m⁻²	0,001	2.76e-06	0,003	ı	0,03	1
Near UV		Euva	W•m⁻²	10	1.84e-04	33	-	100	-
Blue light	Β(λ)	Lв	W•m ⁻² •sr ⁻¹	100	9.95e-02	10000	ı	4000000	-
Blue light, small source	Β(λ)	Ев	W•m⁻²	1,0*	-	1,0	•	400	1
Retinal thermal	R(λ)	L _R	W•m ⁻² •sr ⁻¹	28000/α	6.11e+01	28000/α	-	71000/α	-
Retinal thermal, weak visual stimulus**	R(\lambda)	L _{IR}	W•m⁻²•sr⁻¹	6000/α	4.43e-01	6000/α	-	6000/α	-
IR radia- tion, eye		E _{IR}	W•m⁻²	100	3.52e-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 .	
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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 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
				Emission Measurement					
Risk	Action spectrum	Symbol	Units	Exe	mpt	Low risk		Mod risk	
				Limit	Result	Limit	Result	Limit	Result
Actinic UV	S _{UV} (λ)	Es	W•m⁻²	0,001	2.76e-06	-	-	-	-
Near UV		EUVA	W•m⁻²	0,33	1.84e-04	-	-	-	-
Blue light	Β(λ)	L _B	W•m⁻²•sr⁻¹	100	9.95e-02	10000	-	4000000) -
Blue light, small source	Β(λ)	Ев	W•m⁻²	0,01	-	1,0	-	400	-
Retinal thermal	R(λ)	L _R	W•m ⁻² •sr ⁻¹	28000/α	6.11e+01	28000/α	-	71000/c	-
Retinal thermal,	D(1)	1	W•m⁻²•sr⁻¹	545000 0,0017≤ α ≤ 0,011	-				
weak visual stimulus**	R(λ)	L _{IR}	vv•m-2•sr-1	6000/α 0,011≤ α ≤ 0,1			4.43e-01		
IR radiation, eye		E _{IR}	W•m⁻²	100	3.52e-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 = 0.0145 radian.

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

Appendix 1 Photo Documentation



