

IEC62471A - ATTACHMENT			
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
Attachment Form No.:	--
Attachment Originator	DEKRA Testing and Certification (Shanghai) Ltd
Master Attachment	2013-10

	CENELEC COMMON MODIFICATIONS (EN)	P
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	See appended Table 6.1
4.1	General	P
	First paragraph deleted	—

EN 62471

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Table 6.1	Emission limits for risk groups of continuous wave lamps (based on EU Directive 2006/25/EC)								P	
	Test condition:		<input type="checkbox"/> GLS	<input type="checkbox"/> Non GLS	<input checked="" type="checkbox"/> Worst Case					
	Lamp classification group:		<input type="checkbox"/> exempt	<input checked="" type="checkbox"/> risk 1	<input type="checkbox"/> risk 2	<input type="checkbox"/> risk 3				
Risk	Action spectrum	Symbol	Units	Emission Measurement For L1C1-GRN1000000000, $\alpha=3,5$ mrad						
				Exempt		Low risk		Mod risk		
				Limit	Result	Limit	Result	Limit	Result	
Actinic UV	$S_{UV}(\lambda)$	E_s	$W \cdot m^{-2}$	0,001	0,0000	-	-	-	-	
Near UV		E_{UVA}	$W \cdot m^{-2}$	0,33	0,0000	-	-	-	-	
Blue light	$B(\lambda)$	L_B	$W \cdot m^{-2} \cdot sr^{-1}$	100	--	10000	--	4000000		
Blue light, small source	$B(\lambda)$	E_B	$W \cdot m^{-2}$	0,01*	0,19	1,0	0,19	400	--	
Retinal thermal	$R(\lambda)$	L_R	$W \cdot m^{-2} \cdot sr^{-1}$	$28000/\alpha$	45906,89	$28000/\alpha$		$71000/\alpha$		
Retinal thermal, weak visual stimulus**	$R(\lambda)$	L_{IR}	$W \cdot m^{-2} \cdot sr^{-1}$	545000 $0,0017 \leq \alpha \leq 0,011$	--					
				6000/ α $0,011 \leq \alpha \leq 0,1$	--					
IR radiation, eye		E_{IR}	$W \cdot m^{-2}$	100	0,00	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.