TEST REI **EN 62471** **Photobiological safety of la**
Note:

Test item particulars **Lamp classification group.....:Risk Group 1**
Possible test case verdicts
General remarks: **Remark:** **Appendix A - EUT photos** **Appendix B - Test equipment list**
General Product Information:

	$L_B\,t=\sum_{300}^{700}\sum_{t} L_\lambda(\lambda,t)\;B(\lambda)\;\triangle t\;\triangle\lambda \leq$	$^{-2}$ $^{-1}$	
	$L_B=\sum_{300}^{700} L_\lambda\;B(\lambda)\;\triangle\lambda \leq$		
		α	
	$E_B\,t=\sum_{300}^{700}\sum_{t} E_\lambda(\lambda,t)\;B(\lambda)\;\triangle t\;\triangle\lambda \leq$	$^{-2}$	
	$E_B=\sum_{300}^{700} E_\lambda\;B(\lambda)\;\triangle\lambda \leq$		
	$L_{IR}=\sum_{780}^{1400} L_\lambda \cdot R(\lambda)\cdot\Delta\lambda \leq \frac{50000}{\alpha\cdot t^{0,25}}$	$W\cdot m^{-2}\cdot sr^{-1}$	
	$L_{IR}=\sum_{780}^{1400} L_\lambda \cdot R(\lambda)\cdot\Delta\lambda \leq \frac{6000}{\alpha}$	$W\cdot m^{-2}\cdot sr^{-1}$	
	$E_{IR}=\sum_{780}^{3000} E_\lambda \cdot\Delta\lambda \leq 18000\cdot t^{-0,75}$	$W\cdot m^{-2}$	

	$E_{IR} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta\lambda \leq 100$ W·m^{-2}		
	$E_{H} \cdot t = \sum_{380}^{3000} \sum_{t} E_{\lambda}(\lambda, t) \cdot \Delta t \cdot \Delta\lambda \leq 20000 \cdot t^{0,25}$ J·m^{-2}		

FIN

Table 4.1			
Wavelength[1] λ, nm	UV hazard function $S_{uv}(\lambda)$	Wavelength λ, nm	UV hazard function $S_{uv}(\lambda)$

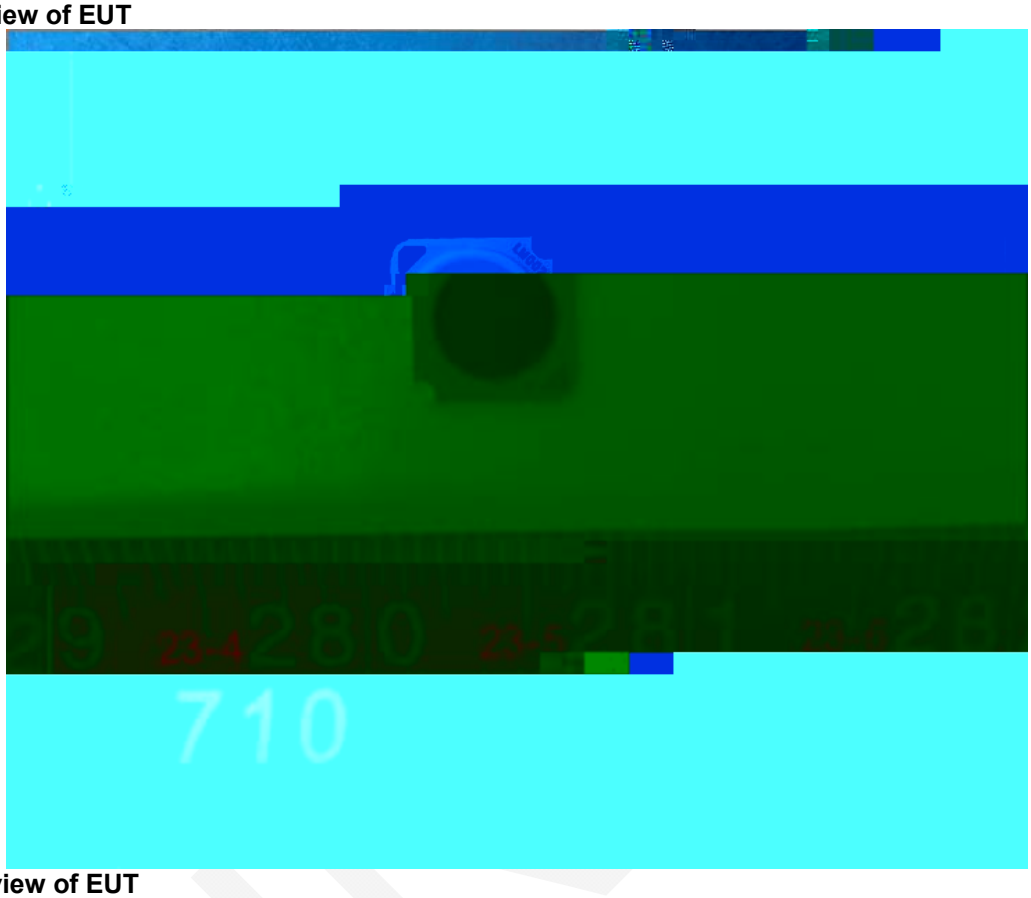
Table 4.2

Wavelength nm	Blue-light hazard function B( )	Burn hazard function R( )
	λ	
		λ
		λ

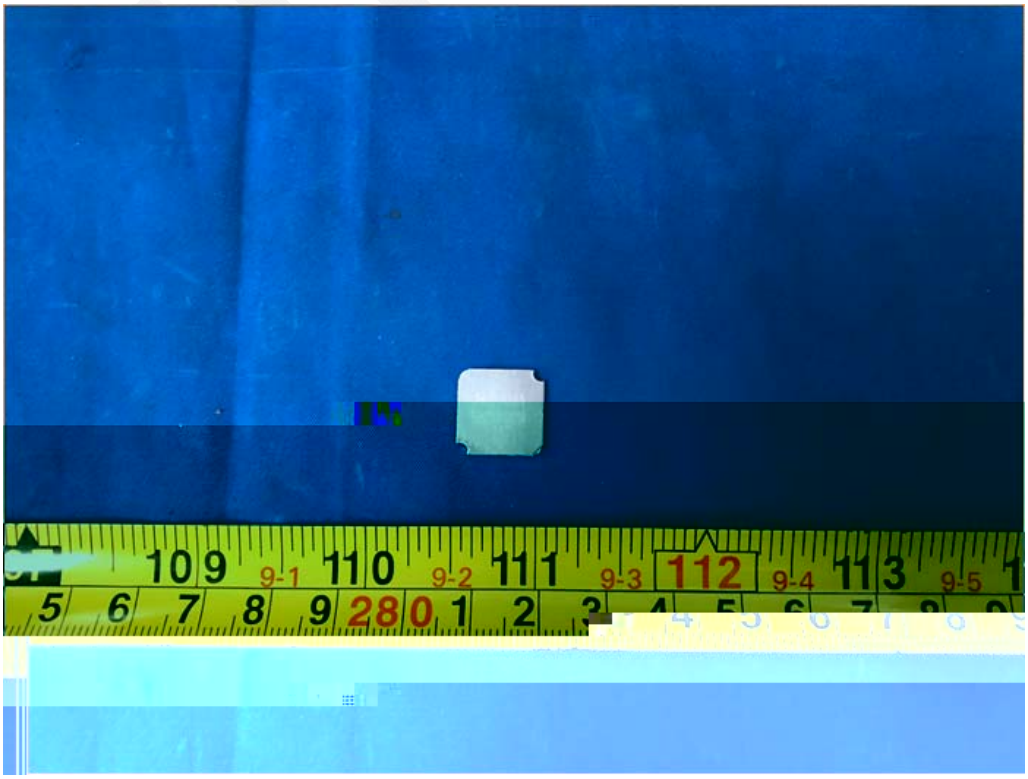
Table 5.4					-
Hazard Name	**Relevant equation**	**Wavelength Range nm**	**Explosure aperture rad(deg)**	**Limiting aperture rad(deg)**	**EL in items of constant irradiance $W.m^{-2}$**
	$\sum_{\lambda} \lambda \Delta\lambda$				
	$\sum_{\lambda} \Delta\lambda$		≤		
	$\sum_{\lambda} \lambda \Delta\lambda$		≤		
	$\sum_{\lambda} \Delta\lambda$		≤		
	$\sum_{\lambda} \Delta\lambda$			π	

Table 5.5					-
Hazard Name	**Relevant equation**	**Wavelength Range nm**	**Explosure duration Sec**	**Field of view radians**	**EL in terms of constant radiance $W.m^{-2}.sr^{-1}$)**
	$\sum_{\lambda} \lambda \Delta\lambda$		≥	√ √	
	$\sum_{\lambda} \lambda \Delta\lambda$			√	α α
	$\sum_{\lambda} \lambda \Delta\lambda$				α

Thefrontview of EUT



Theback view of EUT



Equipment Description	Model No	BACL#	Manufacturer	Last Cal	Cal Due

End of report