TEST REPORT

IEC 62471:2006

Photobiological safety of lamps and lamp systems

IEC 62471			

	≤		
	$L_B\,t=\sum_{300}^{700}\sum L_\lambda(\lambda,t)\,B(\lambda)\quad t\quad \lambda\leq$ -2 -1		
	$L_B=\sum_{300}^{700}L_\lambda\,B(\lambda)\quad \lambda\leq$		
		α	
	$E_в\,t=\sum_{300}^{700}\sum E_\lambda(\lambda,t)\,B(\lambda)\quad t\quad \lambda\leq$ -2		
	$E_B=\sum_{300}^{700}E_\lambda\,B(\lambda)\quad \lambda\leq$		
	$L_R=\sum^{1400}L_\lambda\cdot R(\lambda)\cdot\Delta\lambda\leq\frac{50000}{\alpha\cdot t^{0.25}}$ $\frac{W\cdot m^{-2}\cdot sr^{-1}}{380}$	L_R	

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	$L_{IR} = \sum_{780}^{1400} L_\lambda \cdot R(\lambda) \cdot \Delta\lambda \le \frac{6000}{\alpha}$ W·m^{-2}·sr^{-1}		
	$E_{IR} = \sum_{780}^{3000} E_\lambda \cdot \Delta\lambda \le 18000 \cdot t^{-0,75}$ W·m^{-2}		
	$E_{IR} = \sum_{780}^{3000} E_\lambda \cdot \Delta\lambda \le 100$ W·m^{-2}		
	$E_H \cdot t = \sum_{380}^{3000} \sum_{t} E_\lambda(\lambda,t) \cdot \Delta t \cdot \Delta\lambda \le 20000 \cdot t^{0,25}$ J·m^{-2}		

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	α		

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Table 4.1		

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

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Table 4.2		
Wavelength nm	Blue-light hazard function B( )	Burn hazard function R( )

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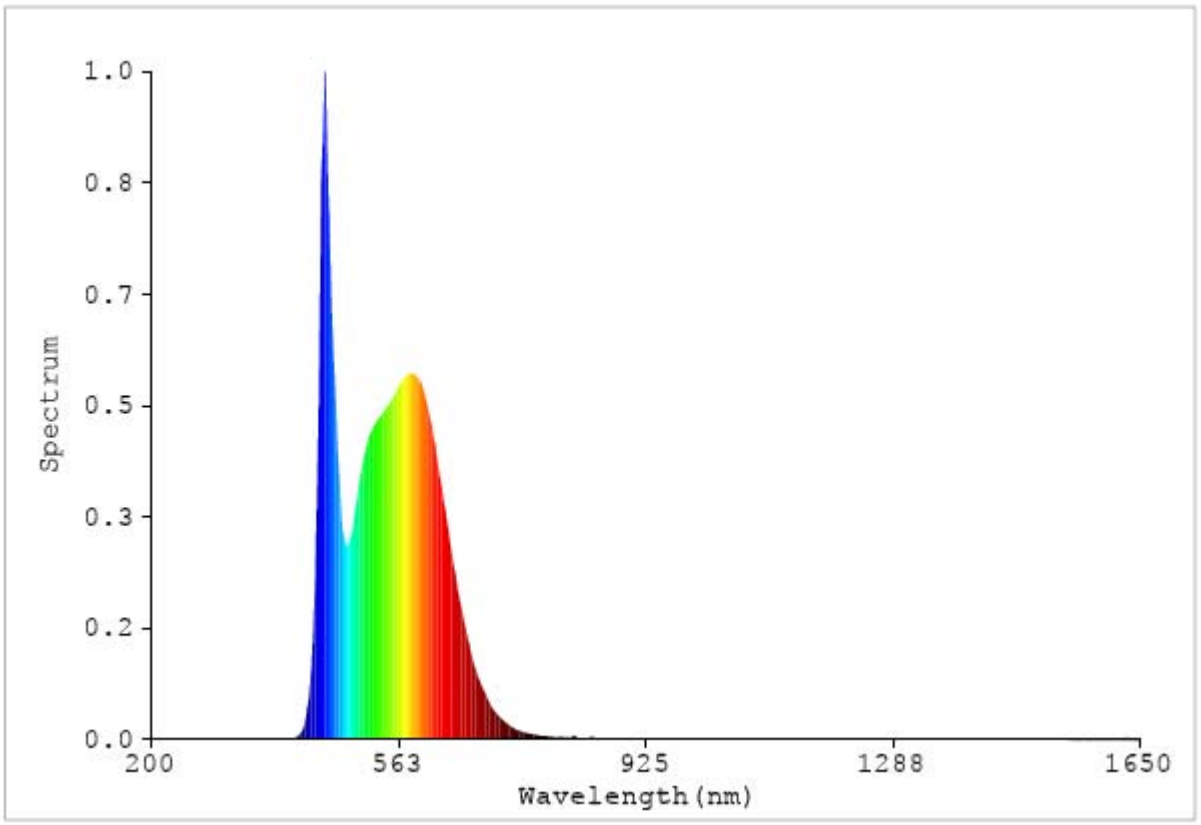
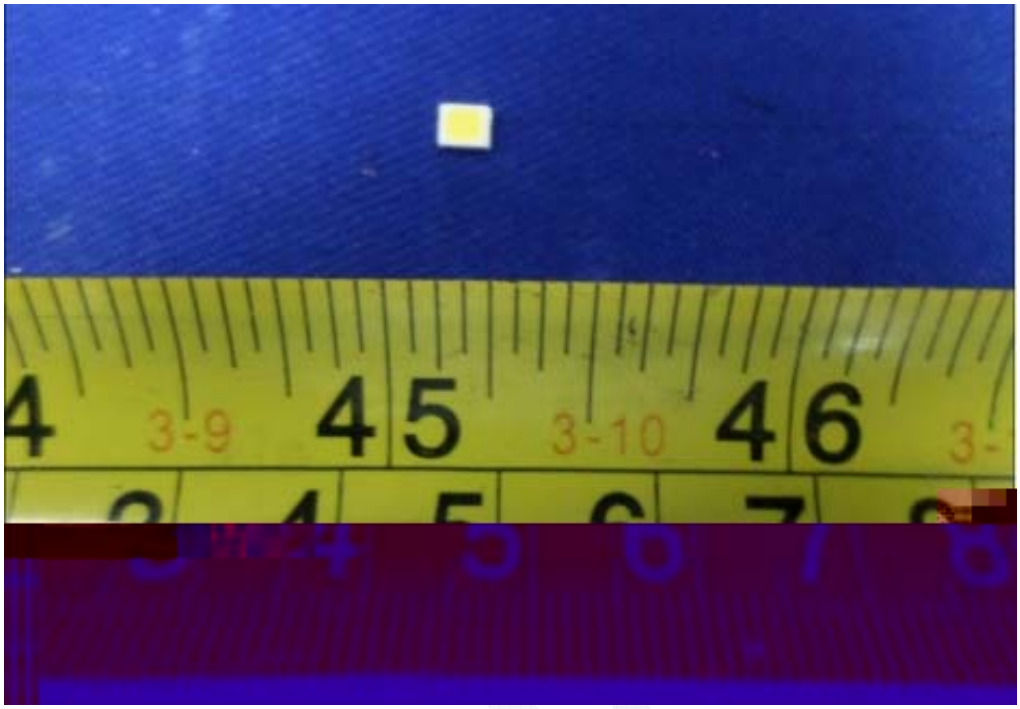
Table 5.4					-
Hazard Name	**Relevant equation**	**Wavelength Range nm**	**Explosure aperture rad(deg)**	**Limiting aperture rad(deg)**	**EL in items of constant irradiance $W.m^{-2}$**
	$\sum_{\lambda} \lambda \Delta\lambda$				
	$\sum_{\lambda} \Delta\lambda$		≤		
	$\sum_{\lambda} \lambda \Delta\lambda$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

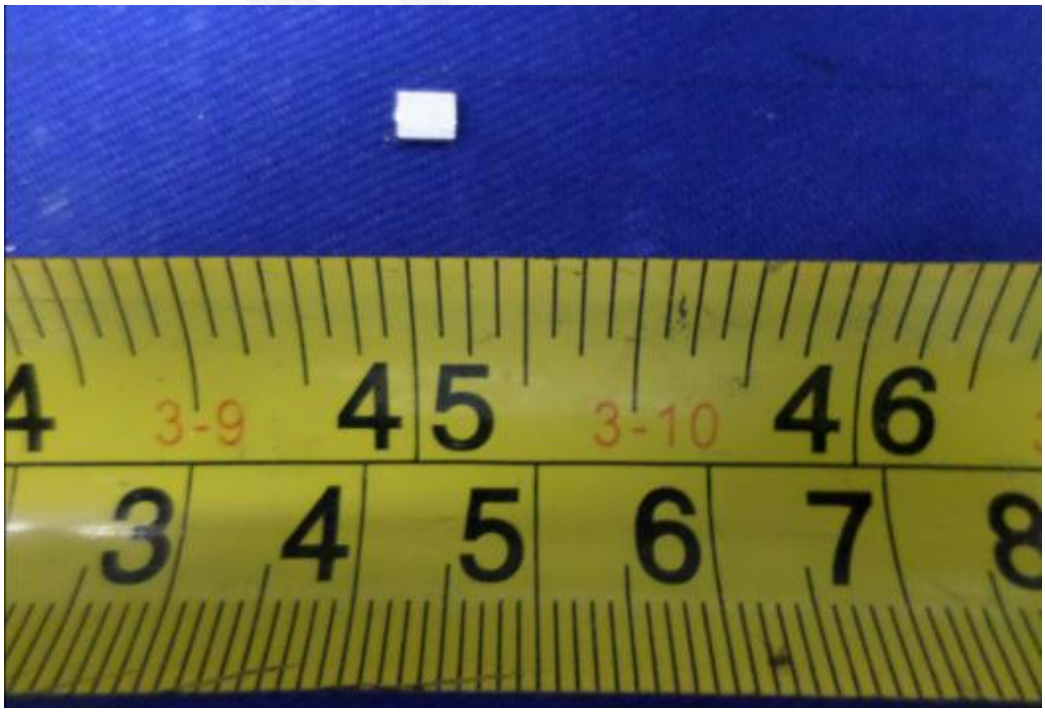
	λ								
	λ								
	λ								
	λ			α α		α α		α α	
	λ			α α		α α		α α	
		α							


1.0
0.8
0.7
0.5
0.3
0.2
0.0
Spectrum
200
563
925
1288
1650
Wavelength(nm)

The front view of EUT



The back view of EUT



Equipment Description	Model No	BACL#	Manufacturer	Last Cal	Cal Due