TEST REPORT

IEC 62471:2006

Photobiological safety of lamps and lamp systems

[redacted]

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	$E_{IR} = \sum_{780}^{3000} E_\lambda \cdot \Delta\lambda \le 18000 \cdot t^{-0,75}$ 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	α	

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

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

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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 $W.m^{-2}$**
	∑ λ λ Δλ				
	∑ λ Δλ		≤		
	∑ λ λ Δλ		≤		
	∑ λ Δλ		≤		
	∑ λ Δλ			π	

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

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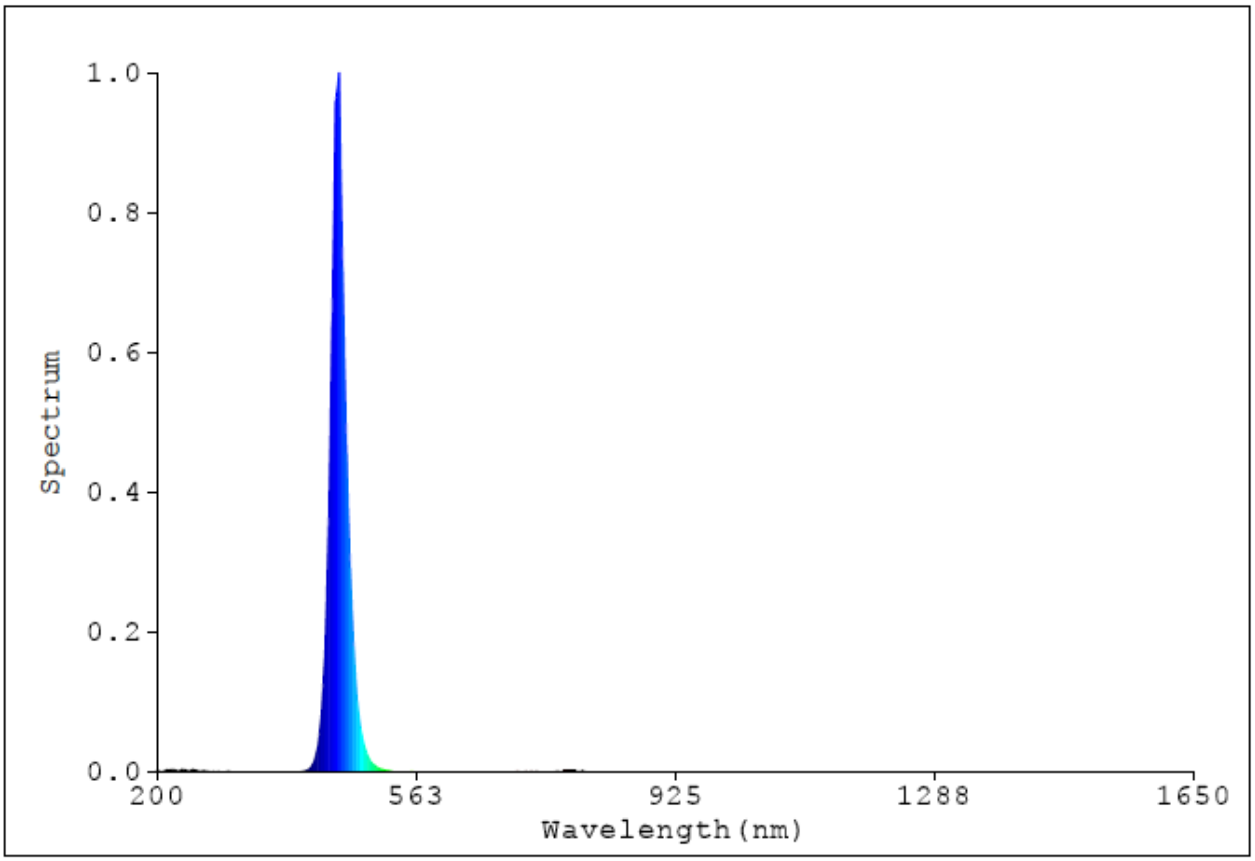
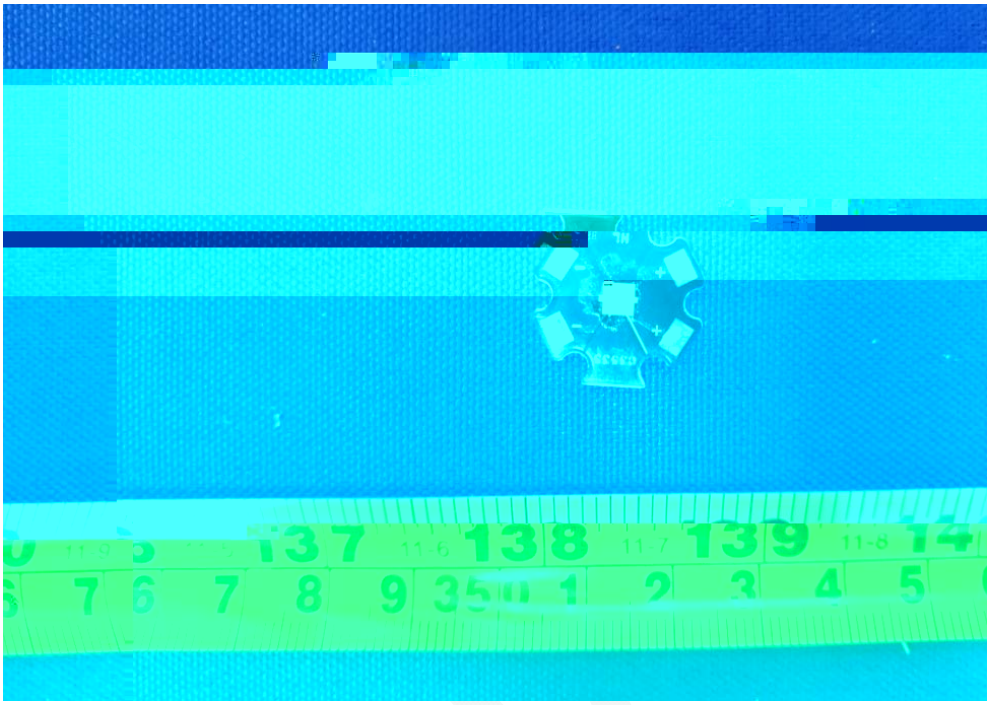

1.0
0.8
0.6
0.4
0.2
0.0
Spectrum
200
563
925
1288
1650
Wavelength(nm)

EUT - The overall view



DIRECTIONS

End of report

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