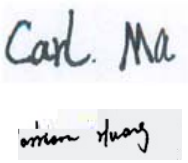
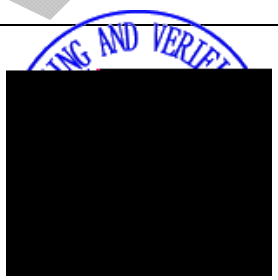
TEST REPORT

EN 62471:2008

Photobiological safety of lamps and lamp systems





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Test item particulars

Lamp classification group.....: Risk Group 1

Possible test case verdicts

General remarks:

Remark:
Appendix A - EUT photos

General Product Information:

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	$E_s\ t = \sum_{t}^{400} E_\lambda(\lambda,t)\ s_{uv}(\lambda) \quad t \quad \lambda \leq$		
	≤		

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	$L_B\ t = \sum_{300}^{700}\sum_{t} L_\lambda(\lambda,t)\ B(\lambda)\quad t\quad \lambda \leq$ -2 -1		
	$L_B = \sum_{300}^{700} L_\lambda\ B(\lambda)\quad \lambda \leq$		
		α	
	$E_B\ t = \sum_{300}^{700}\sum_{t} E_\lambda(\lambda,t)\ B(\lambda)\quad t\quad \lambda \leq$ -2		
	$E_B = \sum_{300}^{700} E_\lambda\ B(\lambda)\quad \lambda \leq$		
	$L_{IR} = \sum_{38}^{1400} L_\lambda \cdot R(\lambda) \cdot \Delta\lambda \leq \frac{50000}{\alpha}$ 25 $W \cdot m^{-2} \cdot sr^{-1}$		
	$L_{IR} = \sum_{780}^{1400} L_\lambda \cdot R(\lambda) \cdot \Delta\lambda \leq \frac{6000}{\alpha}$ $W \cdot m^{-2} \cdot sr^{-1}$		

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

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	α	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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BACL
Bay Area Compliance Labs Corp.

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

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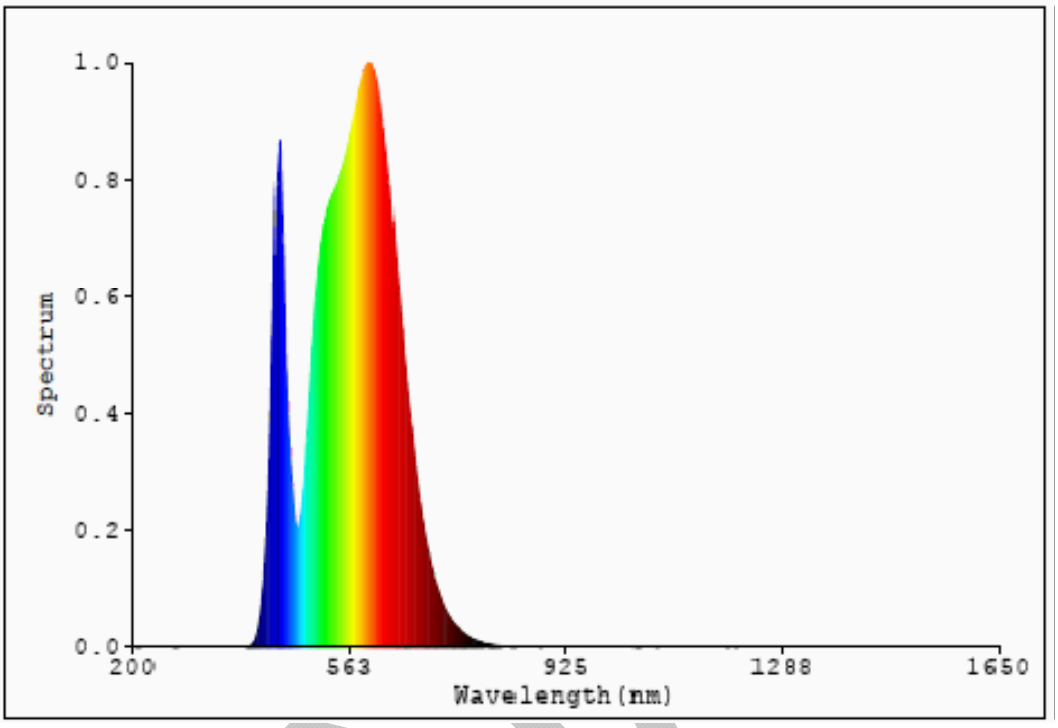

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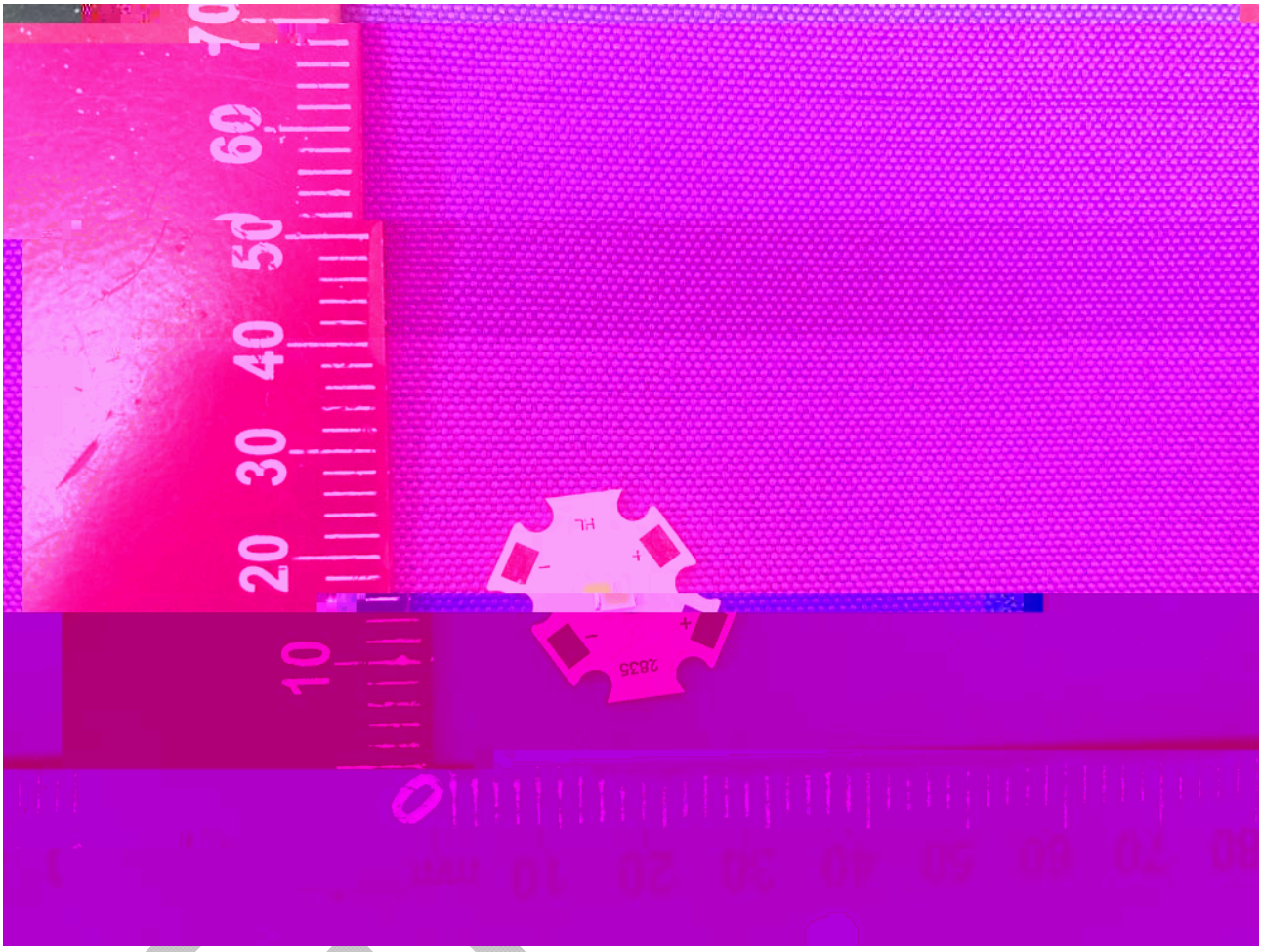
The overall view of EUT



Directions:

*****End of report*****

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