

TEST REPORT
EN 62471:2008
 Photobiological safety of lamps and lamp systems



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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Es $t = \sum_{t}^{400} \sum_{t} E_{\lambda}(\lambda, t) s_{uv}(\lambda) t \lambda \le$	
≤	



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700		
$L_{B} t = \sum_{300}^{700} \sum_{t} L_{\lambda}(\lambda, t) B(\lambda) t \lambda \leq $		
$L_B = \sum_{300}^{700} L_{\lambda} B(\lambda) \lambda \le$		
$L_B = \sum_{\lambda} L_{\lambda} D(\lambda) \lambda \leq$		
	α	
$E_{\rm B} t = \sum_{300}^{700} \sum_{t} E_{\lambda}(\lambda, t) B(\lambda) t \lambda \leq $		
$E_B = \sum_{300}^{700} E_{\lambda} B(\lambda) \lambda \leq$		
1400		
1400 (= = \(\sum \) \(\lambda \) \(\sum		
38 92 62 62		
▼		
1400 6000		
$L_{\rm IR} = \sum_{780}^{1400} L_{\lambda} \cdot R(\lambda) \cdot \Delta \lambda \le \frac{6000}{\alpha} $ W·m ⁻² ·sr ⁻¹		
780		



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$E_{IR} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta \lambda \le 18000 \cdot t^{-0.75}$ W·m ⁻²	
$E_{IR} = \sum_{780} E_{\chi} - \Delta \chi \le 100 \qquad W-rn^2$	
$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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e 4.1				
Wave λ,	length ¹ nm	UV hazard function S _ω (λ)	Wavelength λ, nm	UV hazard function S _{υν} (λ)
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Table 4.2		
Wavelength nm	Blue-light hazard function B()	Burn hazard function R()
	· ·	
	λ	
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		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
	Δλ Σ λ λ				
	Δλ Σ λ		≤		
	Δλ Σ λ λ		≤		
	Σ λ Δλ		≤		
	Σ 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)
	Δλ Σ λ λ		2	V	
	Δλ Σ λ λ			V	α
	Δλ Σ λ				α

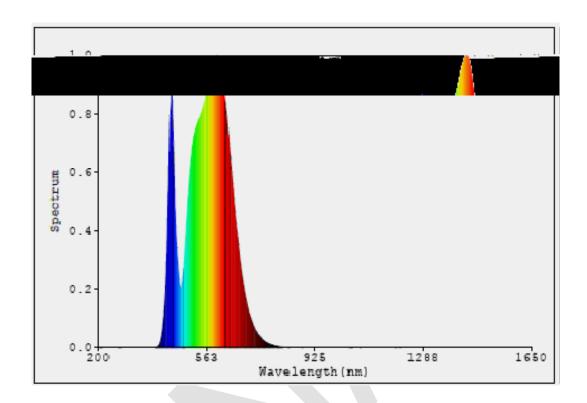


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λ									
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λ			α		α		α	α	
λ			α		α		α	α	

α







The overall view of EUT





Directions:

End of report