



<p style="text-align: center;"><b>TEST REPORT</b> <b>IEC 62471:2006</b> <b>Photobiological safety of lamps and lamp systems</b></p>

FINAL



**Test item particulars**

**Lamp classification group.....: Exempt Group**

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	$E_s t = \sum_t \sum_{\lambda} E(\lambda, t) s_{uv}(\lambda) \Delta t \Delta \lambda \leq$		
	$\leq$		

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$$L_B t = \sum_{300}^{700} \sum L(\lambda, t) B(\lambda) \Delta t \Delta \lambda \leq \alpha \quad -2 \quad -1$$

$$L_B = \sum_{300}^{700} L B(\lambda) \Delta \lambda \leq \alpha$$

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$$E_B t = \sum_{300}^{700} \sum E(\lambda, t) B(\lambda) \Delta t \Delta \lambda \leq \alpha \quad -2$$

$$E_B = \sum_{300}^{700} E B(\lambda) \Delta \lambda \leq \alpha$$

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$$L_{IR} = \sum_{780}^{1400} L_{\lambda} R(\lambda) \Delta \lambda \leq \frac{50000}{\alpha} \quad W \cdot m^{-2} \cdot sr^{-1}$$

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$$L_{IR} = \sum_{780}^{1400} L_{\lambda} R(\lambda) \Delta \lambda \leq \frac{6000}{\alpha} \quad W \cdot m^{-2} \cdot sr^{-1}$$

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	$E_{IR} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta\lambda \leq 18000 \cdot t^{-0.75} \quad \text{W}\cdot\text{m}^{-2}$		
	$E_{IR} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta\lambda \leq 100 \quad \text{W}\cdot\text{m}^{-2}$		
	$E_H \cdot t = \sum_{380}^{3000} \sum_t E_{\lambda}(\lambda, t) \cdot \Delta t \cdot \Delta\lambda \leq 20000 \cdot t^{0.25} \quad \text{J}\cdot\text{m}^{-2}$		

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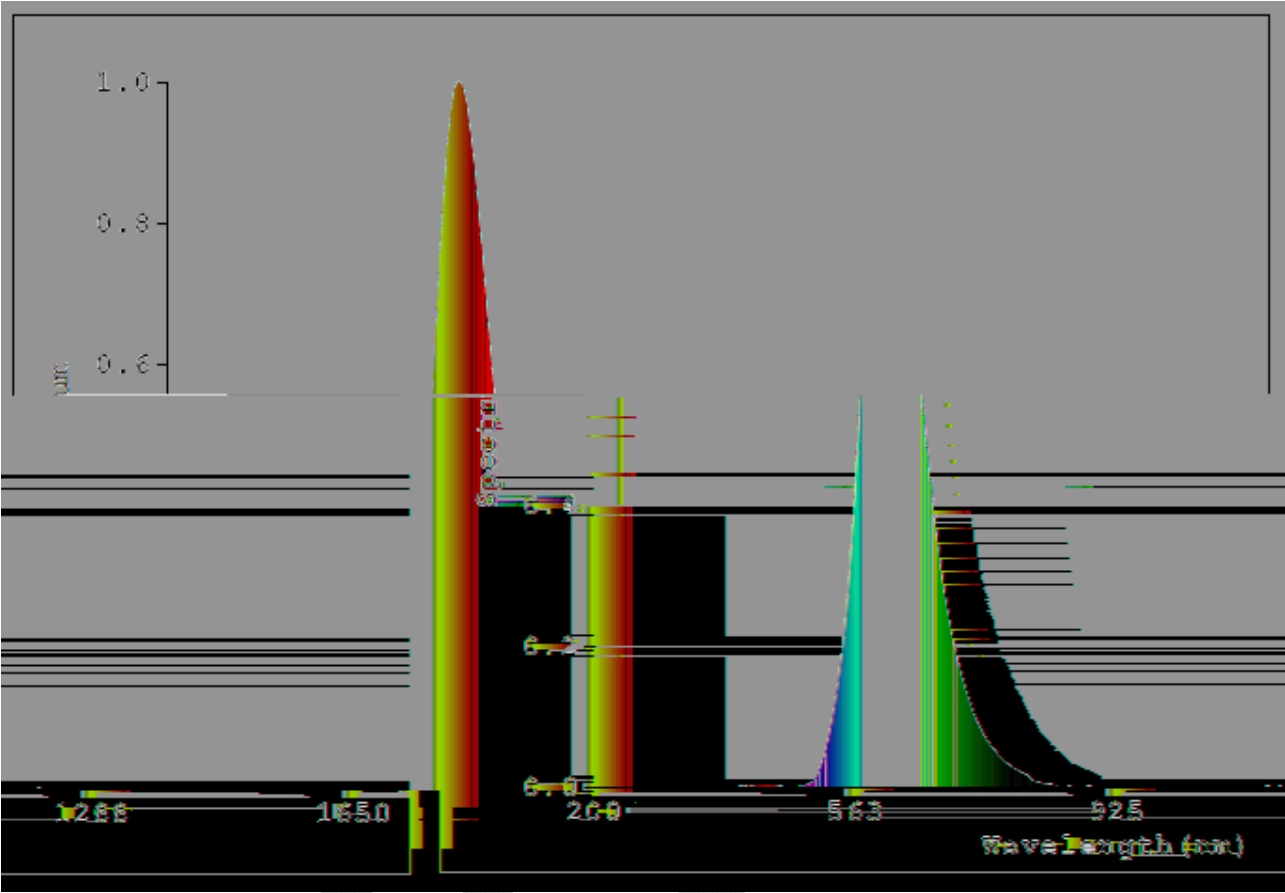
Table 5.4					-
Hazard Name	Relevant equation	Wavelength Range nm	Exposure aperture rad(deg)	Limiting aperture rad(deg)	EL in items of constant irradiance $W.m^{-2}$
	$\Delta\lambda \sum_{\lambda} \lambda$				
	$\Delta\lambda \sum_{\lambda}$		$\leq$		
	$\Delta\lambda \sum_{\lambda} \lambda$		$\leq$	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

Table 5.5					-
Hazard Name	Relevant equation	Wavelength Range nm	Exposure duration Sec	Field of view radians	EL in terms of constant radiance $W.m^{-2}.sr^{-1}$
	$\Delta\lambda \sum_{\lambda} \lambda$		$\geq$	$\sqrt{\quad}$ $\sqrt{\quad}$	
	$\Delta\lambda \sum_{\lambda} \lambda$			$\sqrt{\quad}$	$\alpha$ $\alpha$
	$\Delta\lambda \sum_{\lambda} \lambda$				$\alpha$



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**EUT - The overall view**



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## DIRECTIONS

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

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