

TEST REPORT IEC 62471:2006 Photobiological safety of lamps and lamp systems







IEC 62471		
$L_B t = L_{\lambda}(\lambda, t) B(\lambda) t \lambda \leq \qquad ^{-2} ^{-1}$		
$L_B = \int_{300}^{700} L_{\lambda} B(\lambda) \lambda \leq$		
300		
$E_{\rm B} \stackrel{700}{t=} E_{\lambda}(\lambda,t) B(\lambda) t \lambda \leq \qquad ^{-2}$		
$E_{B} = \sum_{300}^{700} E_{\lambda} B(\lambda) \lambda \leq$		
300		
$L_{R} = \sum_{\lambda}^{1400} L_{\lambda} \cdot R(\lambda) \cdot \Delta \lambda \le \frac{50000}{10000}$ W·m ⁻² ·sr ⁻¹	L _R	
$L_{\rm R} = \sum_{\lambda} L_{\lambda}^{\lambda} \cdot N(\lambda) \cdot \Delta N \leq \frac{1}{2} \cdot 10.25$		



IEC 62471		
	l	
$L_{\rm 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		
$E_{\rm IR} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta \lambda \le 100 \qquad \qquad \text{W·m}^{-2}$		
$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		



IEC 62471					



IEC 62471	



IEC 62471					
		1			
	>				



	IEC 62471	

Table 4.1			
Wavelength ¹ , nm	UV hazard function S _w ()	Wavelength , nm	UV hazard function S _{uv} ()
			<u> </u>
	1		

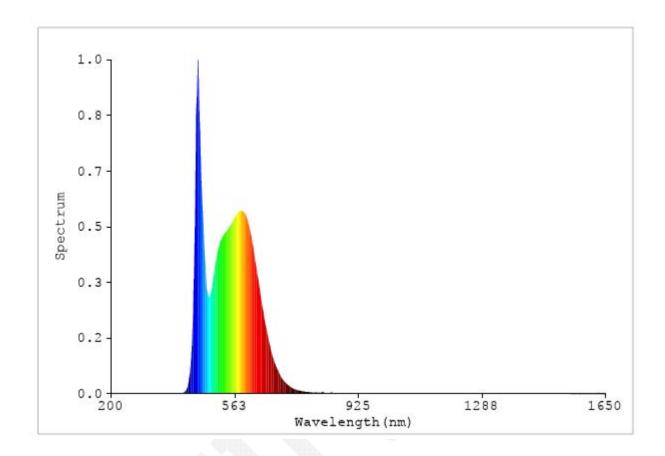


IEC 62471					

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







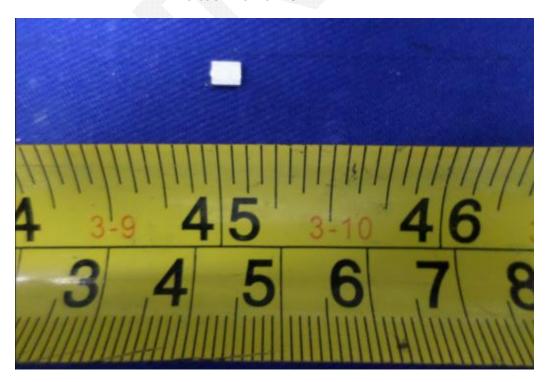


The front view of EUT

4 3-9 4 5 3-10 4 6 3

3 4 5 6 7 8

The back view of EUT





Equipment Description	Model No	BACL#	Manufacturer	Last Cal	Cal Due
				7	
				_	