

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

*Paul Zeng*  
~~Richard~~

**Note:**



FINAL











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	$L_B t = \int_{300}^{700} L(\lambda, t) B(\lambda) d\lambda \quad \text{m}^{-2} \cdot \text{s}^{-1}$		
	$L_B = \int_{300}^{700} L_\lambda B(\lambda) d\lambda$		
	$E_B t = \int_{300}^{700} E_\lambda(\lambda, t) B(\lambda) d\lambda \quad \text{m}^{-2}$		
	$E_B = \int_{300}^{700} E_\lambda B(\lambda) d\lambda$		
	$L_{IR} = \sum_{780}^{1400} L_\lambda \cdot R(\lambda) \cdot \Delta\lambda \leq \frac{50000}{\frac{0.25}{380}} \quad \text{W} \cdot \text{m}^{-2} \cdot \text{sr}^{-1}$		
	$L_{IR} = \sum_{780}^{1400} L_\lambda \cdot R(\lambda) \cdot \Delta\lambda \leq \frac{6000}{\alpha} \quad \text{W} \cdot \text{m}^{-2} \cdot \text{sr}^{-1}$		


















<b>Table 5.4</b>					
<b>Hazard Name</b>	<b>Relevant equation</b>	<b>Wavelength Range nm</b>	<b>Exposure aperture rad(deg)</b>	<b>Limiting aperture rad(deg)</b>	<b>EL in items of constant irradiance <math>W.m^{-2}</math></b>

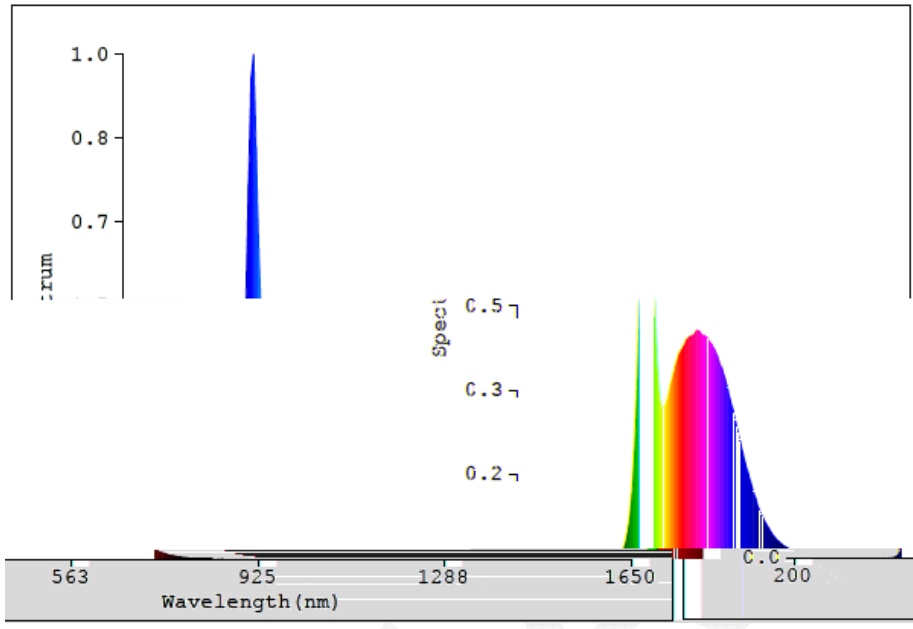
<b>Table 5.5</b>					
<b>Hazard Name</b>	<b>Relevant equation</b>	<b>Wavelength Range nm</b>	<b>Exposure duration Sec</b>	<b>Field of view radians</b>	<b>EL in terms of constant radiance <math>W.m^{-2}.sr^{-1}</math></b>
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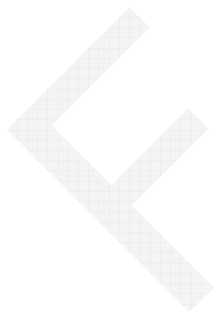


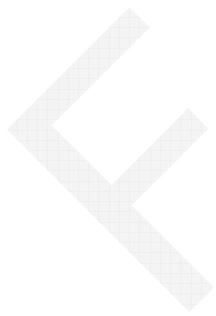


### Appendix I Figure of Spectral distribution

Spectral distribution of EUT







## Appendix C DECLARATION OF DIFFERENCES



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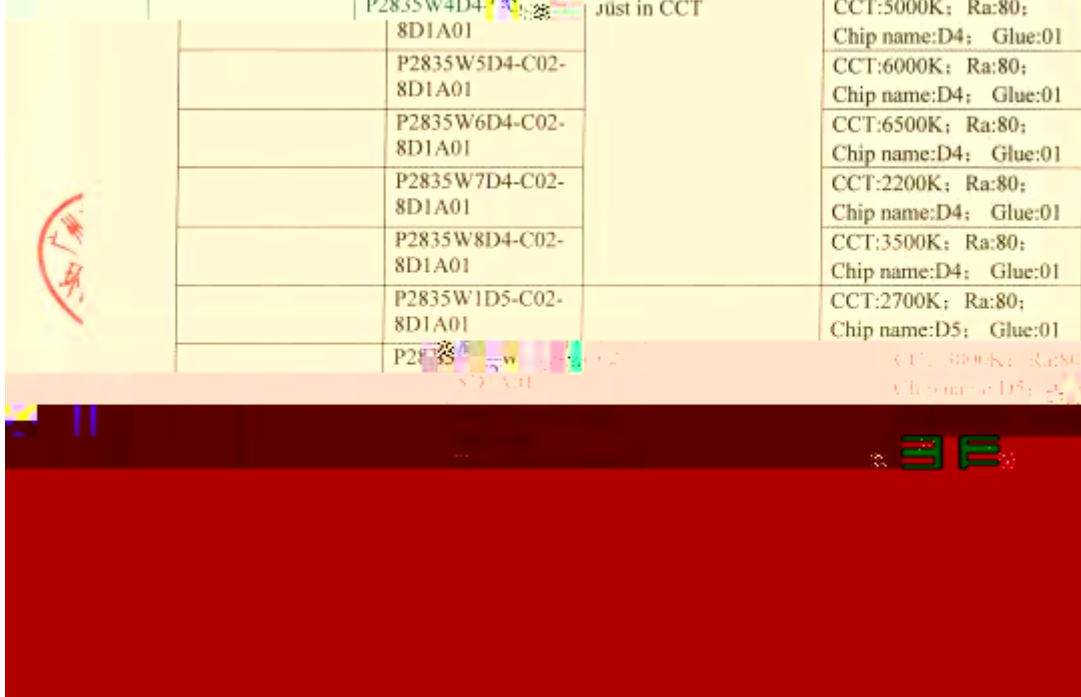
### Declaration of Alteration

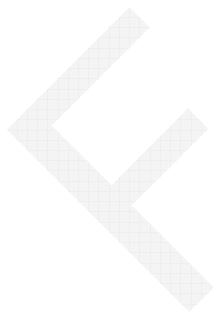
To Whom It May Concern,

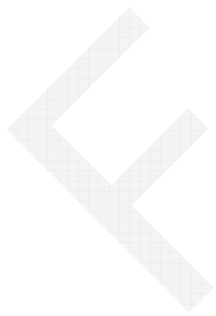
We, Guangzhou Hongli Opto-Electronic Co.,Ltd. , hereby declare that there are some differences between our Multiple Models and testing products as below:

(This is for your reference only.)

Products Description	Name	LED package	
	Brand	/	
Description	Manufacturer	Guangzhou Hongli Opto-Electronic Co.,Ltd.	
	Project No.	/	
Differences Description			
Testing Products	Multiple Models	Differences Items	Details
P2835W6D4-C02-8D1A01	P2835W1D4-C02-8D1A01		CCT:2700K; Ra:80; Chip name:D4; Glue:01
	P2835W2D4-C02-8D1A01		CCT:3000K; Ra:80; Chip name:D4; Glue:01
	P2835W3D4-C02-8D1A01		CCT:4000K; Ra:80; Chip name:D4; Glue:01
	P2835W4D4-8D1A01		just in CCT CCT:5000K; Ra:80; Chip name:D4; Glue:01
	P2835W5D4-C02-8D1A01		CCT:6000K; Ra:80; Chip name:D4; Glue:01
	P2835W6D4-C02-8D1A01		CCT:6500K; Ra:80; Chip name:D4; Glue:01
	P2835W7D4-C02-8D1A01		CCT:2200K; Ra:80; Chip name:D4; Glue:01
	P2835W8D4-C02-8D1A01		CCT:3500K; Ra:80; Chip name:D4; Glue:01
	P2835W1D5-C02-8D1A01		CCT:2700K; Ra:80; Chip name:D5; Glue:01
	P2835W1D5-C02-8D1A01		CCT:3000K; Ra:80; Chip name:D5; Glue:01









P2835W6D4-C02-7D1AA1	Just in CCT, Ra, Glue and Chip name change	CCT:6500K; Ra:70; Chip name:D4; Glue:A1
P2835W7D4-C02-7D1AA1		CCT:2200K; Ra:70; Chip name:D4; Glue:A1
P2835W8D4-C02-7D1AA1		CCT:3500K; Ra:70; Chip name:D4; Glue:A1
P2835W1D5-C02-7D1AA1		CCT:2700K; Ra:70; Chip name:D5; Glue:A1
P2835W2D5-C02-7D1AA1		CCT:3000K; Ra:70; Chip name:D5; Glue:A1
P2835W3D5-C02-7D1AA1		CCT:4000K; Ra:70; Chip name:D5; Glue:A1
P2835W4D5-C02-7D1AA1		CCT:5000K; Ra:70; Chip name:D5; Glue:A1
P2835W5D5-C02-7D1AA1		CCT:6000K; Ra:70; Chip name:D5; Glue:A1
P2835W6D5-C02-7D1AA1		CCT:6500K; Ra:70; Chip name:D5; Glue:A1
P2835W7D5-C02-7D1AA1		CCT:2200K; Ra:70; Chip name:D5; Glue:A1
P2835W8D5-C02-7D1AA1		CCT:3500K; Ra:70; Chip name:D5; Glue:A1

Notes: Testing products-the products tested by BACL

Multiple Model- have the same or similar appearance, structure, PCB, Material and function to the testing products, and only are different for little parameters. For Chip parts, we declare the chips used for multiple models are identical with testing product, only name different. Besides the differences in the table above, we declare the products are identical. We guarantee all the information provided above is true, and notice that we'll bear all the consequences caused by any false information or concealing.

Best Regards,

Signature:   
Print Name: Becky Y. Zai  
Title: System Advisor