

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

Report reference No: RSZ151021550-03
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 Date of issue: 2015-10-23

Testing laboratory: Bay Area Compliance Laboratories Corp. (Dongguan)
 Address: No.69 Pulong Village Puxinhu Industry Zone Tangxia,Dongguan,
 China.
 Testing location: Same as above

Applicant: Guangzhou Hongli Opto-Electronic Co., Ltd.
 Address: No.1, Xianke Yi Road, Huadong Town, Huadu District, Guangzhou,
 China

Standard: IEC 62471:2006
 Test sample(s) received.....: 2015-10-22
 Test in period.....: 2015-10-23
 Procedure deviation: N.A.
 Non-standard test method: N.A.

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Type of test object: LED Package
 Trademark: None
 Model/type reference: P2835W6H6-C04-8D1A01
 Multiple models.....: P2835W7H6-C04-8D1A01 P2835W1H6-C04-8D1A01
 P2835W2H6-C04-8D1A01 P2835W3H6-C04-8D1A01
 P2835W4H6-C04-8D1A01 P2835W5H6-C04-8D1A01

Manufacturer.....:	Guangzhou Hongli Opto-Electronic Co., Ltd. No.1, Xianke Yi Road, Huadong Town, Huadu District, Guangzhou, China
Rating	15Vdc 120mA
Copy of marking plate: N/A	

Test item particulars	
Tested lamp.....:	LED
Tested lamp system.....:	N/A
Lamp classification group.....:Exempt Group	
Lamp cap.....:	N/A
Bulb.....:	N/A
Rated of the lamp	N/A
Furthermore marking on the lamp.....:	N.A.
Seasoning of lamps according EN standard	No seasoning
Used measurement instrument.....:	See appendix B for details
Temperature by measurement.....:	25.3°C
Information for safety use.....:	N.A

Possible test case verdicts:	
-test case does not apply to the test object.....:	N(.A.)
-test object does meet the requirement.....:	P(ass)
-test object does not meet the requirement.....:	F(ail)

General remarks:

The test results presented in this report relate only to the object tested.
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General product information:

Model

FINAL

Table 6.1		Emission limits for risk groups of continuous wave lamps base on Directive(2006/25/EC)								P
Risk	Action spectrum	Units	Symbol	Exempt		Low risk		Mod risk		
				Limit	Result	Limit	Result	Limit	Result	
Actinic UV	Suv()	W.m ⁻²	E _S	0.001	7.6×10 ⁻⁶	0.003	-	0.03	-	
Near UV		W.m ⁻²	E _{UVA}	10	6.2×10 ⁻⁵	33	-	100	-	
Blue light	B()	W.m ⁻² .sr ⁻¹	L _B	100	21	10000	-	4000000	-	
Blue light,small source	B()	W.m ⁻²	E _B	1*	1.3×10 ⁻¹	1	-	400	-	
Retinal thermal	R()	W.m ⁻² .sr ⁻¹	L _R	28000/ =0.0105	1.4×10 ⁴	28000/ =0.0105	-	71000/ =0.0105	-	
Retinal thermal, Weak visual stimulus**	R()	W.m ⁻² .sr ⁻¹	L _{IR}	6000/ =0.0105	2.5	6000/ =0.0105	-	28000/ =0.0105	-	
IR radiation Eye		W.m ⁻²	E _{IR}	100	0	570	-	3200	-	

* Small source defined as one with < 0,011 radian. Averaging field of view at 10000 s is 0,1 radian.
 ** Involves evaluation of non-GLS source

