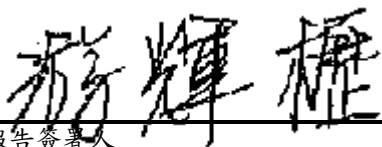


試驗報告

CNS 15592 C4529 光源及光源系統之光生物安全性 Photobiological safety of lamps and lamp systems

報告號碼.....	TOOC211000037000
報告發行日期.....	中華民國111年02月15日
實驗室名稱.....	台灣檢驗科技股份有限公司 光學實驗室
實驗室地址.....	24886 新北市五股區(新北產業園區)五權路33號
申請者名稱.....	華能光電科技股份有限公司
申請者地址.....	231 新北市新店區中正路542-4號6樓
委託測試要求:	
試驗標準.....	CNS 15592 C4529 光源及光源系統之光生物安全性 (Photobiological safety of lamps and lamp systems) (公布日期: 101年11月15日)
測試程序.....	與上述相同
非標準試驗方法.....	N/A
產品名稱.....	高天井燈
品牌或商標.....	 Energyled
生產或供應廠商.....	華能光電科技股份有限公司
產品型號/編號.....	BA0CCHWW1501 etc.(見第 4 頁)
產品電性規格.....	AC (200 to 240) V (50 / 60) Hz
測試條件.....	AC 220 V 60 Hz
試驗結果:	所送測之試驗樣品,符合上述規範無風險類別(<u>Exempt Group</u>)
<ul style="list-style-type: none"> ◆ 本試驗結果僅對試驗樣品負責。 ◆ 本報告所記載事項不得作為廣告、出版物或商業推銷之用,並不得作為法律訴訟用途。 ◆ 本報告部份摘錄、節錄使用無效,但取得本實驗室書面同意則不在此限。 ◆ 本試驗報告之符合性聲明,其決定規則乃依據前述試驗標準之要求。 	

台灣檢驗科技股份有限公司
光學實驗室


 報告簽署人
游輝樞

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<input checked="" type="checkbox"/> 測試實驗室: 台灣檢驗科技股份有限公司 光學實驗室 測試地址.....: 24886 新北市五股區(新北產業園區)五權路33號																
報告內容摘要: 本試驗報告適用光源與光源系統之評價, 並將試驗結果進行光生物安全性等級分類, 其試驗結果涵蓋報告中所記載之試驗樣品或樣品組合產生之光輻射危害。 對於其他標準之符合性需求, 可能需要額外之試驗報告。																
主要測試設備: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="text-align: center;">Name</th> <th style="text-align: center;">Brand</th> <th style="text-align: center;">Model</th> <th style="text-align: center;">S/N</th> <th style="text-align: center;">Calibration Due Day</th> </tr> </thead> <tbody> <tr> <td>IDR300 system</td> <td>BENTHAM</td> <td>IDR300</td> <td>OPG-0001</td> <td>2022/03/08</td> </tr> <tr> <td>Digital Power Meter / AC Source</td> <td>YOKOGAWA / CHROMA</td> <td>WT-210 / 61601</td> <td>OPG-0015 / OPG-0010</td> <td>2022/02/18</td> </tr> </tbody> </table>		Name	Brand	Model	S/N	Calibration Due Day	IDR300 system	BENTHAM	IDR300	OPG-0001	2022/03/08	Digital Power Meter / AC Source	YOKOGAWA / CHROMA	WT-210 / 61601	OPG-0015 / OPG-0010	2022/02/18
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標示銘版: <div style="border: 1px solid black; padding: 10px; margin-top: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">ENERGYLED CORPORATION</td> </tr> <tr> <td style="width: 50%;"> 產品名稱: LED 高天井燈 型號: BA0CCHWW1501 額定電壓: 200-240VAC(50/60Hz) 額定功率: 200W 使用光源: 不可更換0.2W LED*864PCS 製造年份: xx年xx月 委製商/進口商: 華能光電科技股份有限公司 地址: 臺灣新北市新店區中正路542-4號6樓 電話: (+886) 2-7729-0589 </td> <td style="width: 50%;"> 製造號碼: 操作溫度t_a: 50°C 色溫: 6500K 商品原產地: 額定電流: 1.05A PF: 0.95 </td> </tr> </table> <div style="text-align: right; margin-top: 10px;"> </div> </div>		ENERGYLED CORPORATION		產品名稱: LED 高天井燈 型號: BA0CCHWW1501 額定電壓: 200-240VAC(50/60Hz) 額定功率: 200W 使用光源: 不可更換0.2W LED*864PCS 製造年份: xx年xx月 委製商/進口商: 華能光電科技股份有限公司 地址: 臺灣新北市新店區中正路542-4號6樓 電話: (+886) 2-7729-0589	製造號碼: 操作溫度 t_a : 50°C 色溫: 6500K 商品原產地: 額定電流: 1.05A PF: 0.95											
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CNS 15592 試驗報告	
測試項目細節:	
試驗光源	<input checked="" type="checkbox"/> 連續輻射光源 <input type="checkbox"/> 脈衝輻射光源
試驗光源系統	:
光源風險分類類別	<input checked="" type="checkbox"/> 無風險 <input type="checkbox"/> 風險1 <input type="checkbox"/> 風險2 <input type="checkbox"/> 風險3
光源燈帽	: N/A
光源燈泡	: N/A
光源額定電性	: AC (200 to 240) V (50 / 60) Hz
測試電性	: AC 220 V 60 Hz
光源本體上額外標示	: N/A
光源枯化點燈期	: N/A
儀器設備	: 依照CNS15592方法進行量測
量測溫度	: (25 ± 2) °C
安全使用資訊	: Exempt Group
試驗符合性判定:	
– 試驗狀況不適用試驗項目	: N/A (不適用)
– 試驗狀況符合試驗項目要求	: P (符合)
– 試驗狀況不符合試驗項目要求	: F (不符合)
試驗:	
樣品接收日期	: Oct. 22, 2021
測試日期	: Oct. 22, 2021 ~ Feb. 14, 2022
一般註解:	
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產品一般資訊:

主型號BA0CCHWW1501與系列型號之差異為額定功率、額定電流、發光角度、LED色溫、產品重量、LED光源顆數、擴光罩、市場銷售差異,其餘部分皆相同。

系列差異如下表所示:

1. A 市場(原生型號)系列差異如下表:

產品型號	額定功率 / 電流	光源顆數	發光角度	LED色溫 (K)	產品重量	擴光罩
BA0DCHWW1501	100W / 0.6A	432PCS / 12S36P	120°	6500	4.8 公斤	有
BA0DLHWW1501				5700		
BA0DTHWW1501				4000		
BA0DWHWW1501				3000		
BA0DCHWW1502				6500		
BA0DLHWW1502				5700		
BA0DTHWW1502				4000		
BA0DWHWW1502				3000		
BA0DCHWW1503				6500		
BA0DLHWW1503				5700		
BA0DTHWW1503				4000		
BA0DWHWW1503				3000		
BA0DCHWW1504				6500		
BA0DLHWW1504				5700		
BA0DTHWW1504				4000		
BA0DWHWW1504				3000		
BA0DCHWW1505				6500		
BA0DLHWW1505				5700		
BA0DTHWW1505				4000		
BA0DWHWW1505				3000		
BA0DCHWW1506				6500		
BA0DLHWW1506				5700		
BA0DTHWW1506				4000		
BA0DWHWW1506				3000		
BA0DCHWW1507	6500					

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BA0DLHHWW1507			5700	
BA0DTHHWW1507			4000	
BA0DWHHWW1507			3000	
BA0DCHHWW1508			6500	
BA0DLHHWW1508			5700	
BA0DTHHWW1508			4000	
BA0DWHHWW1508			3000	
BA0DCHHWW1509			6500	
BA0DLHHWW1509			5700	
BA0DTHHWW1509			4000	
BA0DWHHWW1509			3000	
BA0BCHHWW1501			6500	
BA0BLHHWW1501			5700	
BA0BTHHWW1501			4000	
BA0BWHHWW1501			3000	
BA0BCHHWW1502			6500	
BA0BLHHWW1502			5700	
BA0BTHHWW1502			4000	
BA0BWHHWW1502			3000	
BA0BCHHWW1503			6500	
BA0BLHHWW1503			5700	
BA0BTHHWW1503	150W / 0.9A	648PCS / 12S54P	4000	4.9 公斤
BA0BWHHWW1503			3000	
BA0BCHHWW1504			6500	
BA0BLHHWW1504			5700	
BA0BTHHWW1504			4000	
BA0BWHHWW1504			3000	
BA0BCHHWW1505			6500	
BA0BLHHWW1505			5700	
BA0BTHHWW1505			4000	
BA0BWHHWW1505			3000	
BA0BCHHWW1506			6500	

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BA0BLHHWW1506			5700	
BA0BTHHWW1506			4000	
BA0BWHHWW1506			3000	
BA0BCHHWW1507			6500	
BA0BLHHWW1507			5700	
BA0BTHHWW1507			4000	
BA0BWHHWW1507			3000	
BA0BCHHWW1508			6500	
BA0BLHHWW1508			5700	
BA0BTHHWW1508			4000	
BA0BWHHWW1508			3000	
BA0BCHHWW1509			6500	
BA0BLHHWW1509			5700	
BA0BTHHWW1509			4000	
BA0BWHHWW1509			3000	
BA0CCHHWW1501			6500	
BA0CLHHWW1501			5700	
BA0CTHHWW1501			4000	
BA0CWHHWW1501			3000	
BA0CCHHWW1502			6500	
BA0CLHHWW1502			5700	
BA0CTHHWW1502			4000	
BA0CWHHWW1502			3000	
BA0CCHHWW1503	200W / 1.05A	864PCS / 12S72P	6500	5.0 公斤
BA0CLHHWW1503			5700	
BA0CTHHWW1503			4000	
BA0CWHHWW1503			3000	
BA0CCHHWW1504			6500	
BA0CLHHWW1504			5700	
BA0CTHHWW1504			4000	
BA0CWHHWW1504			3000	
BA0CCHHWW1505			6500	

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BA0CLHHWW1505				5700	
BA0CTHHWW1505				4000	
BA0CWHHWW1505				3000	
BA0CCHWW1506				6500	
BA0CLHHWW1506				5700	
BA0CTHHWW1506				4000	
BA0CWHHWW1506				3000	
BA0CCHWW1507				6500	
BA0CLHHWW1507				5700	
BA0CTHHWW1507				4000	
BA0CWHHWW1507				3000	
BA0CCHWW1508				6500	
BA0CLHHWW1508				5700	
BA0CTHHWW1508				4000	
BA0CWHHWW1508				3000	
BA0CCHWW1509				6500	
BA0CLHHWW1509				5700	
BA0CTHHWW1509				4000	
BA0CWHHWW1509				3000	
BA0DCHWW0501				6500	
BA0DLHHWW0501				5700	
BA0DTHWW0501				4000	
BA0DWHWW0501				3000	
BA0DCHWW0502				6500	
BA0DLHHWW0502				5700	
BA0DTHWW0502	100W / 0.6A	432PCS / 12S36P	90°	4000	4.8 公斤
BA0DWHWW0502				3000	
BA0DCHWW0503				6500	
BA0DLHHWW0503				5700	
BA0DTHWW0503				4000	
BA0DWHWW0503				3000	
BA0DCHWW0504				6500	

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BA0DLHHWW0504			5700	
BA0DTHHWW0504			4000	
BA0DWHHWW0504			3000	
BA0DCHHWW0505			6500	
BA0DLHHWW0505			5700	
BA0DTHHWW0505			4000	
BA0DWHHWW0505			3000	
BA0DCHHWW0506			6500	
BA0DLHHWW0506			5700	
BA0DTHHWW0506			4000	
BA0DWHHWW0506			3000	
BA0DCHHWW0507			6500	
BA0DLHHWW0507			5700	
BA0DTHHWW0507			4000	
BA0DWHHWW0507			3000	
BA0DCHHWW0508			6500	
BA0DLHHWW0508			5700	
BA0DTHHWW0508			4000	
BA0DWHHWW0508			3000	
BA0DCHHWW0509			6500	
BA0DLHHWW0509			5700	
BA0DTHHWW0509			4000	
BA0DWHHWW0509			3000	
BA0BCHHWW0501	150W / 0.9A	648PCS / 12S54P	6500	4.9 公斤
BA0BLHWW0501			5700	
BA0BTHHWW0501			4000	
BA0BWHHWW0501			3000	
BA0BCHHWW0502			6500	
BA0BLHWW0502			5700	
BA0BTHHWW0502			4000	
BA0BWHHWW0502			3000	
BA0BCHHWW0503			6500	

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BA0BLHHWW0503			5700	
BA0BTHHWW0503			4000	
BA0BWHHWW0503			3000	
BA0BCHHWW0504			6500	
BA0BLHHWW0504			5700	
BA0BTHHWW0504			4000	
BA0BWHHWW0504			3000	
BA0BCHHWW0505			6500	
BA0BLHHWW0505			5700	
BA0BTHHWW0505			4000	
BA0BWHHWW0505			3000	
BA0BCHHWW0506			6500	
BA0BLHHWW0506			5700	
BA0BTHHWW0506			4000	
BA0BWHHWW0506			3000	
BA0BCHHWW0507			6500	
BA0BLHHWW0507			5700	
BA0BTHHWW0507			4000	
BA0BWHHWW0507			3000	
BA0BCHHWW0508			6500	
BA0BLHHWW0508			5700	
BA0BTHHWW0508			4000	
BA0BWHHWW0508			3000	
BA0BCHHWW0509			6500	
BA0BLHHWW0509			5700	
BA0BTHHWW0509			4000	
BA0BWHHWW0509			3000	
BA0CCHHWW0501	200W / 1.05A	864PCS / 12S72P	6500	5.0 公斤
BA0CLHHWW0501			5700	
BA0CTHHWW0501			4000	
BA0CWHHWW0501			3000	
BA0CCHHWW0502			6500	

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BA0CLHHWW0502				5700		
BA0CTHHWW0502				4000		
BA0CWHHWW0502				3000		
BA0CCHHWW0503				6500		
BA0CLHHWW0503				5700		
BA0CTHHWW0503				4000		
BA0CWHHWW0503				3000		
BA0CCHHWW0504				6500		
BA0CLHHWW0504				5700		
BA0CTHHWW0504				4000		
BA0CWHHWW0504				3000		
BA0CCHHWW0505				6500		
BA0CLHHWW0505				5700		
BA0CTHHWW0505				4000		
BA0CWHHWW0505				3000		
BA0CCHHWW0506				6500		
BA0CLHHWW0506				5700		
BA0CTHHWW0506				4000		
BA0CWHHWW0506				3000		
BA0CCHHWW0507				6500		
BA0CLHHWW0507				5700		
BA0CTHHWW0507				4000		
BA0CWHHWW0507				3000		
BA0CCHHWW0508				6500		
BA0CLHHWW0508				5700		
BA0CTHHWW0508				4000		
BA0CWHHWW0508				3000		
BA0CCHHWW0509				6500		
BA0CLHHWW0509				5700		
BA0CTHHWW0509				4000		
BA0CWHHWW0509				3000		
BA0DCHHWW2501	100W / 0.6A	432PCS /	150°	6500	4.8 公斤	無

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BA0DLHWW2501	12S36P	5700
BA0DTHWW2501		4000
BA0DWHWW2501		3000
BA0DCHWW2502		6500
BA0DLHWW2502		5700
BA0DTHWW2502		4000
BA0DWHWW2502		3000
BA0DCHWW2503		6500
BA0DLHWW2503		5700
BA0DTHWW2503		4000
BA0DWHWW2503		3000
BA0DCHWW2504		6500
BA0DLHWW2504		5700
BA0DTHWW2504		4000
BA0DWHWW2504		3000
BA0DCHWW2505		6500
BA0DLHWW2505		5700
BA0DTHWW2505		4000
BA0DWHWW2505		3000
BA0DCHWW2506		6500
BA0DLHWW2506		5700
BA0DTHWW2506		4000
BA0DWHWW2506		3000
BA0DCHWW2507		6500
BA0DLHWW2507		5700
BA0DTHWW2507		4000
BA0DWHWW2507		3000
BA0DCHWW2508		6500
BA0DLHWW2508		5700
BA0DTHWW2508		4000
BA0DWHWW2508		3000
BA0DCHWW2509	6500	

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BA0DLHWW2509			5700	
BA0DTHWW2509			4000	
BA0DWHWW2509			3000	
BA0BCHWW2501			6500	
BA0BLHWW2501			5700	
BA0BTHWW2501			4000	
BA0BWHWW2501			3000	
BA0BCHWW2502			6500	
BA0BLHWW2502			5700	
BA0BTHWW2502			4000	
BA0BWHWW2502			3000	
BA0BCHWW2503			6500	
BA0BLHWW2503			5700	
BA0BTHWW2503			4000	
BA0BWHWW2503			3000	
BA0BCHWW2504			6500	
BA0BLHWW2504			5700	
BA0BTHWW2504	150W / 0.9A	648PCS / 12S54P	4000	4.9 公斤
BA0BWHWW2504			3000	
BA0BCHWW2505			6500	
BA0BLHWW2505			5700	
BA0BTHWW2505			4000	
BA0BWHWW2505			3000	
BA0BCHWW2506			6500	
BA0BLHWW2506			5700	
BA0BTHWW2506			4000	
BA0BWHWW2506			3000	
BA0BCHWW2507			6500	
BA0BLHWW2507			5700	
BA0BTHWW2507			4000	
BA0BWHWW2507			3000	
BA0BCHWW2508			6500	

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BA0BLHHWW2508			5700	
BA0BTHHWW2508			4000	
BA0BWHHWW2508			3000	
BA0BCHHWW2509			6500	
BA0BLHHWW2509			5700	
BA0BTHHWW2509			4000	
BA0BWHHWW2509			3000	
BA0CCHHWW2501			6500	
BA0CLHHWW2501			5700	
BA0CTHHWW2501			4000	
BA0CWHHWW2501			3000	
BA0CCHHWW2502			6500	
BA0CLHHWW2502			5700	
BA0CTHHWW2502			4000	
BA0CWHHWW2502			3000	
BA0CCHHWW2503			6500	
BA0CLHHWW2503			5700	
BA0CTHHWW2503			4000	
BA0CWHHWW2503			3000	
BA0CCHHWW2504	200W / 1.05A	864PCS / 12S72P	6500	5.0 公斤
BA0CLHHWW2504			5700	
BA0CTHHWW2504			4000	
BA0CWHHWW2504			3000	
BA0CCHHWW2505			6500	
BA0CLHHWW2505			5700	
BA0CTHHWW2505			4000	
BA0CWHHWW2505			3000	
BA0CCHHWW2506			6500	
BA0CLHHWW2506			5700	
BA0CTHHWW2506			4000	
BA0CWHHWW2506			3000	
BA0CCHHWW2507			6500	

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BA0CLHHWW2507			5700		
BA0CTHHWW2507			4000		
BA0CWHHWW2507			3000		
BA0CCHWW2508			6500		
BA0CLHHWW2508			5700		
BA0CTHHWW2508			4000		
BA0CWHHWW2508			3000		
BA0CCHWW2509			6500		
BA0CLHHWW2509			5700		
BA0CTHHWW2509			4000		
BA0CWHHWW2509			3000		

備註：1.粗體為主型號。2.市場銷售差異，以型號尾碼1-9區別)

2. A 市場對應 B、C 市場銷售產品型號如下表：

A 市場(原生型號)	B 市場((尾碼A型號)	C 市場(尾碼NA型號)	額定功率 / 電流
BA0DCHWW0501	LHB002-80AA/D90A	LHB002-80AA/D90/NA	80W / 0.37A
	LHB002-90AA/D90A	LHB002-90AA/D90/NA	90W / 0.41A
	LHB002-100AA/D90A	LHB002-100AA/D90/NA	100W / 0.6A
BA0DTHWW0501	LHB002-80AA/W90A	LHB002-80AA/W90/NA	80W / 0.37A
	LHB002-90AA/W90A	LHB002-90AA/W90/NA	90W / 0.41A
	LHB002-100AA/W90A	LHB002-100AA/W90/NA	100W / 0.6A
BA0DWHWW0501	LHB002-80AA/L90A	LHB002-80AA/L90/NA	80W / 0.37A
	LHB002-90AA/L90A	LHB002-90AA/L90/NA	90W / 0.41A
	LHB002-100AA/L90A	LHB002-100AA/L90/NA	100W / 0.6A
BA0DCHWW1501	LHB002-80AA/D120A	LHB002-80AA/D120/NA	80W / 0.37A
	LHB002-90AA/D120A	LHB002-90AA/D120/NA	90W / 0.41A
	LHB002-100AA/D120A	LHB002-100AA/D120/NA	100W / 0.6A
BA0DTHWW1501	LHB002-80AA/W120A	LHB002-80AA/W120/NA	80W / 0.37A
	LHB002-90AA/W120A	LHB002-90AA/W120/NA	90W / 0.41A
	LHB002-100AA/W120A	LHB002-100AA/W120/NA	100W / 0.6A
BA0DWHWW1501	LHB002-80AA/L120A	LHB002-80AA/L120/NA	80W / 0.37A
	LHB002-90AA/L120A	LHB002-90AA/L120/NA	90W / 0.41A
	LHB002-100AA/L120A	LHB002-100AA/L120/NA	100W / 0.6A

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BA0BCHHWW0501	LHB002-120AA/D90A	LHB002-120AA/D90/NA	120W / 0.55A
	LHB002-150AA/D90A	LHB002-150AA/D90/NA	150W / 0.9A
BA0BTHHWW0501	LHB002-120AA/W90A	LHB002-120AA/W90/NA	120W / 0.55A
	LHB002-150AA/W90A	LHB002-150AA/W90/NA	150W / 0.9A
BA0BWHHWW0501	LHB002-120AA/L90A	LHB002-120AA/L90/NA	120W / 0.55A
	LHB002-150AA/L90A	LHB002-150AA/L90/NA	150W / 0.9A
BA0BCHHWW1501	LHB002-120AA/D120A	LHB002-120AA/D120/NA	120W / 0.55A
	LHB002-150AA/D120A	LHB002-150AA/D120/NA	150W / 0.9A
BA0BTHHWW1501	LHB002-120AA/W120A	LHB002-120AA/W120/NA	120W / 0.55A
	LHB002-150AA/W120A	LHB002-150AA/W120/NA	150W / 0.9A
BA0BWHHWW1501	LHB002-120AA/L120A	LHB002-120AA/L120/NA	120W / 0.55A
	LHB002-150AA/L120A	LHB002-150AA/L120/NA	150W / 0.9A
BA0CCHHWW0501	LHB002-160AA/D90A	LHB002-160AA/D90/NA	160W / 0.73A
	LHB002-200AA/D90A	LHB002-200AA/D90/NA	200W / 1.05A
BA0CTHHWW0501	LHB002-160AA/W90A	LHB002-160AA/W90/NA	160W / 0.73A
	LHB002-200AA/W90A	LHB002-200AA/W90/NA	200W / 1.05A
BA0CWHHWW0501	LHB002-160AA/L90A	LHB002-160AA/L90/NA	160W / 0.73A
	LHB002-200AA/L90A	LHB002-200AA/L90/NA	200W / 1.05A
BA0CCHHWW1501	LHB002-160AA/D120A	LHB002-160AA/D120/NA	160W / 0.73A
	LHB002-200AA/D120A	LHB002-200AA/D120/NA	200W / 1.05A
BA0CTHHWW1501	LHB002-160AA/W120A	LHB002-160AA/W120/NA	160W / 0.73A
	LHB002-200AA/W120A	LHB002-200AA/W120/NA	200W / 1.05A
BA0CWHHWW1501	LHB002-160AA/L120A	LHB002-160AA/L120/NA	160W / 0.73A
	LHB002-200AA/L120A	LHB002-200AA/L120/NA	200W / 1.05A
備註: A、B、C市場燈具結構皆相同, A市場為原生型號, 對應B、C市場不同功率者, 僅為調整原生型號的LED Driver之額定功率而產生的系列型號。			

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產品規格:

No	Model Name	Rated CCT	LED Quantity	Dimension (mm)
1	BA0CCHHWW0501	6500 K	ZT2835W032-6280 x 864 pcs	Ø 491.3 x H 370.8
2	BA0CLHHWW0501	5700 K	ZT2835W032-5780 x 864 pcs	Ø 491.3 x H 370.8
3	BA0CTHHWW0501	4000 K	ZT2835W032-4080 x 864 pcs	Ø 491.3 x H 370.8
4	BA0CWHHWW0501	3000 K	ZT2835W032-3080 x 864 pcs	Ø 491.3 x H 370.8

LED 規格:

No.	LED Light Source Model No.	Manufacturer	Voltage	Dimension (mm)	Spectral Properties
1	ZT2835W032-6280	SINOWIN	2.7 to 3.0V(@ 60 mA)	L 3.50 x W 2.80 x H 0.70	6500 K
2	ZT2835W032-5780		2.7 to 3.0V(@ 60 mA)	L 3.50 x W 2.80 x H 0.70	5700 K
3	ZT2835W032-4080		2.7 to 3.0V(@ 60 mA)	L 3.50 x W 2.80 x H 0.70	4000 K
4	ZT2835W032-3080		2.7 to 3.0V(@ 60 mA)	L 3.50 x W 2.80 x H 0.70	3000 K

備註:

產品風險分類為無風險類別(Exempt Group)。

我們建議風險分類應該要被標示在產品規格或使用說明上。

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CNS 15592			
章節	試驗要求	結果-備註	判定
4	曝露限制(EL'S)		P
4.1	通則		P
	本標準之曝露限制適用於連續輻射源(continuous sources), 曝露期間不小於0.01 ms, 且不大於8小時, 而曝露限制應作為曝露管制之方針(guide), 惟不應視為明確界定(precisely defined)安全與不安全之分界		P
	一般而言, 僅在輻射源之亮度超過 $10^4 \text{ cd}\cdot\text{m}^{-2}$ 時, 始需輻射源之細部光譜輻射數據, 亮度低於此值時, 將不致超過曝露限制	see clause 4.3	P
4.3	危害曝露限制		P
4.3.1	皮膚及眼睛之光化學UV 危害曝露限制		P
	入射紫外光輻射之曝露限制, 係基於皮膚或眼睛未施加保護, 且曝露期間在8小時以內之條件, 在任一天, 連續曝露超過8小時之情況均不予考慮。有效輻射曝露之曝露限制為 $30 \text{ J}\cdot\text{m}^{-2}$		P
	為保護眼睛或皮膚免於寬頻帶輻射源所產生之紫外光曝露而造成傷害, 光輻射源(light source)之有效積分光譜照度 E_s 不得超過下列方程式所定義之位準:		P
	$E_s \cdot t = \sum_{200}^{400} \sum_t E_\lambda(\lambda, t) \cdot S_{UV}(\lambda) \cdot \Delta t \cdot \Delta \lambda \leq 30 \quad \text{J}\cdot\text{m}^{-2}$		P
	入射紫外光輻射之容許曝露期間, 係基於眼睛或皮膚未施加保護之條件, 以下列方程式計算:		P
	$t_{\max} = \frac{30}{E_s} \quad \text{s}$		P
4.3.2	眼睛之近UV 危害曝露限制		P
	在315 nm 至400 nm 之光譜範圍間, 對眼睛之總輻射曝露(total radiant exposure)不得超過 $10000 \text{ J}\cdot\text{m}^{-2}$, 且曝露期間不得超過1000秒。對於未施加保護之眼睛, 曝露期間超過1000秒(約為16分鐘)之UV-A 輻射照度 E_{UVA} 不得超過 $10 \text{ W}\cdot\text{m}^{-2}$.		P
	此項限制(specifications)可以下列方程式表示:		P
	$t_{\max} \leq \frac{10000}{E_{UVA}} \quad \text{s}$		P
4.3.3	視網膜藍光危害曝露限制		P
	為保護視網膜免於因長期藍光曝露而造成傷害, 光輻射源之光譜輻射亮度與防止藍光危害加權函數 $B(\lambda)$ 之積分值, 即藍光加權亮度 L_B , 不得超過下列方程式所定義之位準:		P

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	$L_B \cdot t = \sum_{300}^{700} \sum_t L_\lambda(\lambda, t) \cdot B(\lambda) \cdot \Delta\lambda \leq 10^6 \quad \text{J} \cdot \text{m}^{-2} \cdot \text{sr}^{-1}$	for $t \leq 10^4$ s $t_{\max} = \frac{10^6}{L_B}$	N/A
	$L_B = \sum_{300}^{700} L_\lambda \cdot B(\lambda) \cdot \Delta\lambda \leq 100 \quad \text{W} \cdot \text{m}^{-2} \cdot \text{sr}^{-1}$	for $t > 10^4$ s	P
4.3.4	視網膜藍光危害曝露限制— 小型光源		N/A
	角距小於0.011 弧度之光輻射源, 可導出1 個以光譜輻射照度而非以光譜輻射亮度為基礎之簡化方程式。對於眼睛之光譜照度 E_λ , 防止藍光危害加權函數 $B(\lambda)$ 不得超過下列方程式所定義之位準:	see table 4.2	N/A
	$E_B \cdot t = \sum_{300}^{700} \sum_t E_\lambda(\lambda, t) \cdot B(\lambda) \cdot \Delta\lambda \leq 100 \quad \text{J} \cdot \text{m}^{-2}$	for $t \leq 100$ s	N/A
	$E_B = \sum_{300}^{700} E_\lambda \cdot B(\lambda) \cdot \Delta\lambda \leq 1 \quad \text{W} \cdot \text{m}^{-2}$	for $t > 100$ s	N/A
4.3.5	視網膜熱危害曝露限制		P
	為保護視網膜免於熱傷害, 光輻射源之光譜輻射亮度與灼傷危害加權函數 $R(\lambda)$ (參照圖4.2 及表4.2)之積分值, 即灼傷加權亮度 L_R , 不得超過下列方程式所定義之位準:		P
	$L_R = \sum_{380}^{1400} L_\lambda \cdot R(\lambda) \cdot \Delta\lambda \leq \frac{50000}{\alpha \cdot t^{0,25}} \quad \text{W} \cdot \text{m}^{-2} \cdot \text{sr}^{-1}$	(10 μ s \leq t \leq 10 s)	P
4.3.6	視網膜熱危害曝露限制— 針對微弱視覺刺激		N/A
	對於紅外光熱光源或任何近紅外光光輻射源, 所產生之微弱視覺刺激不足以激發眼睛之不適反應(activate the aversion response), 以眼睛觀察近紅外光(780nm 至1400 nm)且曝露期間超過10 秒時, 其輻射亮度應限制在下列方程式所定義之位準:		N/A
	$L_{IR} = \sum_{780}^{1400} L_\lambda \cdot R(\lambda) \cdot \Delta\lambda \leq \frac{6000}{\alpha} \quad \text{W} \cdot \text{m}^{-2} \cdot \text{sr}^{-1}$	t > 10 s	N/A
4.3.7	紅外光輻射對眼睛之曝露限制		P
	為避免對眼角膜產生熱傷害及對眼睛之水晶體造成可能之後遺症(白內障), 在波長範圍780 nm 至3000 nm 之紅外光輻射, 曝露期間小於1000 秒時, 曝露限制不得超過下列方程式所定義之位準:		P
	$E_{IR} = \sum_{780}^{3000} E_\lambda \cdot \Delta\lambda \leq 18000 \cdot t^{-0,75} \quad \text{W} \cdot \text{m}^{-2}$	t \leq 1000 s	N/A
	曝露期間大於1000 秒時, 曝露限制不得超過下列方程式所定義之位準:		P

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	$E_{IR} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta\lambda \leq 100 \quad W \cdot m^{-2}$	t > 1000 s	P
4.3.8	對皮膚之熱危害曝露限制		P
	皮膚對可見光及紅外光輻射之曝露限制, 不得超過下列方程式所定義之位準:		P
	$E_H \cdot t = \sum_{380}^{3000} E_{\lambda}(\lambda, t) \cdot \Delta t \cdot \Delta\lambda \leq 20\,000 \cdot t^{0.25} \quad J \cdot m^{-2}$		P

5	光源及光源系統之量測		P
5.1	量測條件		P
	量測條件應與曝露限制評估結果及對應之風險類別 (assignment of risk classification), 一併登載於試驗報告中	產品風險分類為無風險等級 (Exempt Group)	P
5.1.1	枯化點燈 [lamp ageing (seasoning)]		P
	光源應進行適當期間 (period of time) 之枯化點燈。在光源操作之初期 (initial period), 由於元件仍處於平衡調整期間 (come to near equilibrium), 光輻射輸出特性將有所變動。應依對應之 IEC 光源標準, 進行光源之枯化點燈。		P
5.1.2	試驗環境		P
	為維持量測之準確性, 光輻射源應於受控之環境中量測。光輻射源及量測設備受環境因素所影響。對於特定之試驗條件, 參照對應之 IEC 光源標準。		P
5.1.3	外界輻射		P
	應針對外界之輻射或反射源進行查核, 以確保不對量測結果造成顯著影響		P
5.1.4	光源操作		N/A
	試驗光源運作條件的提供必須依照:		N/A
	- 對應 IEC 光源標準, 或		N/A
	- 採行製造廠商所提供之建議條件		N/A
5.1.5	光源系統操作		P
	試驗光源所搭配之控制裝置 (power source), 運作條件的提供必須依照:		P
	- 對應 IEC 光源標準, 或		N/A
	- 採行製造廠商所提供之建議條件	Test Condition Input Voltage: AC 220 V 60 Hz Head of DUT paralleled to optical table for measurement and the measuring distance was 6630 to 6973 mm.	P

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章節	試驗要求	結果-備註	判定
5.2	量測程序		P
5.2.1	輻射照度量測		P
	最小入射孔徑之直徑(minimum input aperture diameter)應為7 mm		P
	最大入射孔徑之直徑(Maximum aperture diameter)應為50 mm		P
	應於光束中能顯現最大讀值之位置進行量測		P
	儀器應適當加以校正, 以利取得每單位接收面積中絕對入射輻射功率之準確讀值		P
5.2.2	輻射亮度量測		P
5.2.2.1	標準方法		P
	以光學系統進行輻射亮度量測		P
	儀器應適當加以校正, 以利取得該儀器平均視場(FOV)上每單位可接收立體角及每單位接收面積中絕對入射輻射功率之準確讀值		P
5.2.2.2	替代方法		N/A
	將輻射照度成像配置(set-up)修改為(alternatively)輻射亮度成像配置, 即將圓形視場光闌置於輻射源之輻射照度量測配置, 可用以進行輻射亮度量測		N/A
5.2.3	輻射源尺寸之量測		P
	為測定輻射源之角距 α , 需測定輻射源中50%之輻射點(emission points)		P
5.2.4	脈衝輻射光源之脈衝寬度量測		N/A
	為測定輻射源之標稱脈衝寬度(nominal pulse duration) Δt , 需測定到達輻射源峰值50%之期間(the time during which the emission is > 50% of its peak value)		N/A
5.3	分析方法		P
5.3.1	加權曲線插值		P
	為使內插值符合標準化, 針對特定之對數值進行線性內插計算, 內插值之反對數值需透過內插加權因數加以換算。	see table 4.1	P
5.3.2	計算		P
	輻射源危害值之計算, 係以合適之函數進行光譜掃描加權(performed by weighting the spectral scan), 計算加權總能量值(total weighted energy)		P
5.3.3	量測不確定度		P
	所有量測結果之品質, 須以不確定度分析加以量化		P

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章節	試驗要求	結果-備註	判定

6	光源之風險分類		P
	登載於報告中之風險類別及光源輻射產生光生物危害值之距離係為重要議題。由於光源從某些觀點可能造成危害，建立分類模式(classification scheme)有助於光生物危害之評估	see table 6.1	P
	- 符合3.11 所定義之一般照明用光源(GLS)，輻射照度及輻射亮度之危害值應登載於報告中，以產生500 lux 照度之距離為基準，惟此距離不得小於200 mm。	一般照明用光源(GLS)	P
	- 對於所有其他種類之光輻射源，包含脈衝輻射光源，應將以200 mm 為基準所得出之危害值登載於報告中		N/A

6.1	連續輻射光源		P
6.1.1	無風險類別		P
	無風險類別之科學基礎，係基於在本標準所規定最極端之曝露限制(end point)下，光源不造成任何光生物危害。滿足本項要求之光源，須符合所有下列條件：		P
	- 在8 小時(30000 秒)內之曝露期間，不造成光化學紫外光危害(E _s)，		P
	- 在1000 秒(約16 分鐘)內之曝露期間，不造成近紫外光危害(E _{UVA})，		P
	- 在10000 秒(約2.8 小時)內之曝露期間，不造成視網膜藍光危害(L _B)，		P
	- 在10 秒內之曝露期間，不造成視網膜熱危害(L _R)，		P
	- 在1000 秒內之曝露期間，不造成對眼睛之紅外光輻射危害(E _{IR})		P
6.1.2	風險類別1(低度風險)		N/A
	風險類別1(低度風險)之科學基礎，係基於在一般之曝露限制(normal behavioral limitations on exposure)下，光源不造成危害。滿足本項要求之光源雖超出無風險類別之限制，惟須符合下列所有條件：		N/A
	- 在10000 秒內之曝露期間，不造成光化學紫外光危害(E _s)，		N/A
	- 在300 秒內之曝露期間，不造成近紫外光危害(E _{UVA})，		N/A

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	- 在100秒內之曝露期間, 不造成視網膜藍光危害(L _B),		N/A
	- 在10秒內之曝露期間, 不造成視網膜熱危害(L _R),		N/A
	- 在100秒內之曝露期間, 不造成對眼睛之紅外光輻射危害(E _{IR})		N/A
	釋放紅外光輻射而不造成強烈視覺刺激(即低於10 cd·m ⁻²), 且在100秒內之曝露期間而不造成近紅外光視網膜危害(L _{IR})之光源, 亦可列入風險類別1(低度風險)		N/A
6.1.3	風險類別2(中度風險)		N/A
	風險類別2(中度風險)之科學基礎, 係基於即使因強光輻射源(bright light sources)造成生理不適(aversion response)或熱不適(thermal discomfort)之反應, 光源仍不造成危害。滿足本項要求之光源雖超出風險類別1(低度風險)之限制, 惟須符合下列所有條件:		N/A
	- 在1000秒內之曝露期間, 不造成光化學紫外光危害(E _s),		N/A
	- 在100秒內之曝露期間, 不造成近紫外光危害(E _{UVA}),		N/A
	- 在0.25秒內之曝露期間(生理不適反應), 不造成視網膜藍光危害(L _B),		N/A
	- 在0.25秒內之曝露期間(生理不適反應), 不造成視網膜熱危害(L _R),		N/A
	- 在10秒內之曝露期間, 不造成對眼睛之紅外光輻射危害(E _{IR})		N/A
	釋放紅外光輻射而不造成強烈視覺刺激(即低於10 cd·m ⁻²), 且在10秒內之曝露期間而不造成近紅外光視網膜危害(L _{IR})之光源, 亦可列入風險類別2(中度風險)。		N/A
6.1.4	風險等級3(高度風險)		N/A
	風險類別3(高度風險)之科學基礎, 係基於即使經短暫期間或瞬間(momentary or brief exposure)之曝露, 光源仍可能造成危害。超出風險類別2(中度風險)限制之光源即列為風險類別3(高度風險)。		N/A
6.2	脈衝輻射光源		N/A
	本節(pulsed lamp criteria)適用於單脈衝及任何脈衝寬度在0.25秒內之脈衝輻射光源		N/A
	脈衝輻射光源應在製造廠商所指定之最高標稱能量負載(highest nominal energy loading)下進行評估。		N/A

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CNS 15592			
章節	試驗要求	結果-備註	判定
	對於每個脈衝，應由輻射源所發射之加權輻射照度或亮度對整個脈衝寬度進行積分所得出，進行下列各項光生物危害評估		N/A
	- 超出曝露限制之光源應列為風險類別3(高度風險)		N/A
	- 對於單脈衝輻射光源，其加權輻射曝露或加權輻射亮度劑量低於EL 時，應列為無風險類別。		N/A
	- 對於重複的脈衝輻射光源(repetitively pulsed lamps)，其加權輻射曝露或加權輻射亮度劑量低於EL 時，以脈衝輻射之時間平均值(time averaged values of the pulsed emission)，依6.1 中針對連續輻射光源之風險類別進行評估		N/A

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Table 4.1 對皮膚及眼睛評估紫外光危害之光譜加權函數

Wavelength ¹ λ , nm	UV hazard function $S_{uv}(\lambda)$	Wavelength λ , nm	UV hazard function $S_{uv}(\lambda)$
200	0,030	313*	0,006
205	0,051	315	0,003
210	0,075	316	0,0024
215	0,095	317	0,0020
220	0,120	318	0,0016
225	0,150	319	0,0012
230	0,190	320	0,0010
235	0,240	322	0,00067
240	0,300	323	0,00054
245	0,360	325	0,00050
250	0,430	328	0,00044
254*	0,500	330	0,00041
255	0,520	333*	0,00037
260	0,650	335	0,00034
265	0,810	340	0,00028
270	1,000	345	0,00024
275	0,960	350	0,00020
280*	0,880	355	0,00016
285	0,770	360	0,00013
290	0,640	365*	0,00011
295	0,540	370	0,000093
297*	0,460	375	0,000077
300	0,300	380	0,000064
303*	0,120	385	0,000053
305	0,060	390	0,000044
308	0,026	395	0,000036
310	0,015	400	0,000030

¹ 所選擇之波長為具備代表性之波長，波長間之其他數值得以對數內插法計算。

*汞放電之發射光譜線。

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Table 4.2 評估寬頻帶光學輻射源對視網膜危害之光譜加權函數

Wavelength nm	Blue-light hazard function B (λ)	Burn hazard function R (λ)
300	0,01	
305	0,01	
310	0,01	
315	0,01	
320	0,01	
325	0,01	
330	0,01	
335	0,01	
340	0,01	
345	0,01	
350	0,01	
355	0,01	
360	0,01	
365	0,01	
370	0,01	
375	0,01	
380	0,01	0,1
385	0,013	0,13
390	0,025	0,25
395	0,05	0,5
400	0,10	1,0
405	0,20	2,0
410	0,40	4,0
415	0,80	8,0
420	0,90	9,0
425	0,95	9,5
430	0,98	9,8
435	1,00	10,0
440	1,00	10,0
445	0,97	9,7
450	0,94	9,4
455	0,90	9,0
460	0,80	8,0
465	0,70	7,0
470	0,62	6,2
475	0,55	5,5
480	0,45	4,5
485	0,40	4,0
490	0,22	2,2
495	0,16	1,6
500-600	$10^{[(450-\lambda)/50]}$	1,0
600-700	0,001	1,0
700-1050		$10^{[(700-\lambda)/500]}$

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1050-1150	0,2
1150-1200	$0,2 \cdot 10^{0,02(1150-\lambda)}$
1200-1400	0,02

Table 5.4 皮膚表面或角膜之ELs彙整表(輻射照度基準值)

Hazard Name	Relevant equation	Wavelength range nm	Exposure duration sec	Limiting aperture rad (deg)	EL in terms of constant irradiance $W \cdot m^{-2}$
Actinic UV skin & eye	$E_S = \sum E_\lambda \cdot S(\lambda) \cdot \Delta\lambda$	200 – 400	< 30000	1,4 (80)	30/t
Eye UV-A	$E_{UVA} = \sum E_\lambda \cdot \Delta\lambda$	315 – 400	≤1000 >1000	1,4 (80)	10000/t 10
Blue-light small source	$E_B = \sum E_\lambda \cdot B(\lambda) \cdot \Delta\lambda$	300 – 700	≤100 >100	< 0,011	100/t 1,0
Eye IR	$E_{IR} = \sum E_\lambda \cdot \Delta\lambda$	780 – 3000	≤1000 >1000	1,4 (80)	$18000/t^{0,75}$ 100
Skin thermal	$E_H = \sum E_\lambda \cdot \Delta\lambda$	380 – 3000	< 10	2π sr	$20000/t^{0,75}$

Table 5.5 視網膜之ELs彙整表(輻射亮度基準值)

Hazard Name	Relevant equation	Wavelength range nm	Exposure duration sec	Field of view radians	EL in terms of constant radiance $W \cdot m^{-2} \cdot sr^{-1}$
Blue light	$L_B = \sum L_\lambda \cdot B(\lambda) \cdot \Delta\lambda$	300 – 700	0,25 – 10	$0,011 \cdot \sqrt{(t/10)}$	$10^6/t$
			10-100	0,011	$10^6/t$
			100-10000	$0,0011 \cdot \sqrt{t}$	$10^6/t$
			≥ 10000	0,1	100
Retinal thermal	$L_R = \sum L_\lambda \cdot R(\lambda) \cdot \Delta\lambda$	380 – 1400	< 0,25	0,0017	$50000/(\alpha \cdot t^{0,25})$
			0,25 – 10	$0,011 \cdot \sqrt{(t/10)}$	$50000/(\alpha \cdot t^{0,25})$
Retinal thermal (weak visual stimulus)	$L_{IR} = \sum L_\lambda \cdot R(\lambda) \cdot \Delta\lambda$	780 – 1400	> 10	0,011	$6000/\alpha$

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Table 6.1 連續輻射光源之危害等級輻射限制與結果

一. 型號: BA0CCHWW0501 (200W / 6500K)

測試電性: AC 220 V 60 Hz

Risk	Action spectrum	Symbol	Units	Emission Measurement					
				Exempt		Low risk		Mod risk	
				Limit	Result	Limit	Result	Limit	Result
Actinic UV	$S_{UV}(\lambda)$	E_s	$W \cdot m^{-2}$	0,001	4.17E-04	0,003	-	0,03	-
Near UV		E_{UVA}	$W \cdot m^{-2}$	10	2.31E-04	33	-	100	-
Blue light	$B(\lambda)$	L_B	$W \cdot m^{-2} \cdot sr^{-1}$	100	5.48E+01	10000	-	4000000	-
Blue light, small source	$B(\lambda)$	E_B	$W \cdot m^{-2}$	1,0*	n/a	1,0	-	400	-
Retinal thermal	$R(\lambda)$	L_R	$W \cdot m^{-2} \cdot sr^{-1}$	$28000/\alpha = 954074.34$	6.53E+02	$28000/\alpha$	-	$71000/\alpha$	-
Retinal thermal, weak visual stimulus**	$R(\lambda)$	L_{IR}	$W \cdot m^{-2} \cdot sr^{-1}$	$6000/\alpha = 204444.5$	n/a	$6000/\alpha$	-	$6000/\alpha$	-
IR radiation, eye		E_{IR}	$W \cdot m^{-2}$	100	4.24E-01	570	-	3200	-

*小型光源之角距 < 0.011 弧度。10000 秒之視場為 0.1 弧度。

**包含非 GLS 光源 (GLS source) 之評估。

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Table 6.1 連續輻射光源之危害等級輻射限制與結果

二. 型號: BA0CLHHWW0501 (200W / 5700K)

測試電性: AC 220 V 60 Hz

Risk	Action spectrum	Symbol	Units	Emission Measurement					
				Exempt		Low risk		Mod risk	
				Limit	Result	Limit	Result	Limit	Result
Actinic UV	$S_{UV}(\lambda)$	E_s	$W \cdot m^{-2}$	0,001	2.92E-04	0,003	-	0,03	-
Near UV		E_{UVA}	$W \cdot m^{-2}$	10	1.47E-04	33	-	100	-
Blue light	$B(\lambda)$	L_B	$W \cdot m^{-2} \cdot sr^{-1}$	100	4.91E+01	10000	-	4000000	-
Blue light, small source	$B(\lambda)$	E_B	$W \cdot m^{-2}$	1,0*	n/a	1,0	-	400	-
Retinal thermal	$R(\lambda)$	L_R	$W \cdot m^{-2} \cdot sr^{-1}$	$28000/\alpha = 990044.92$	6.31E+02	$28000/\alpha$	-	$71000/\alpha$	-
Retinal thermal, weak visual stimulus**	$R(\lambda)$	L_{IR}	$W \cdot m^{-2} \cdot sr^{-1}$	$6000/\alpha = 212152.48$	n/a	$6000/\alpha$	-	$6000/\alpha$	-
IR radiation, eye		E_{IR}	$W \cdot m^{-2}$	100	3.76E-01	570	-	3200	-

*小型光源之角距 < 0.011 弧度。10000 秒之視場為 0.1 弧度。
 **包含非 GLS 光源 (GLS source) 之評估。

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Table 6.1 連續輻射光源之危害等級輻射限制與結果

三. 型號: BA0CTHHWW0501 (200W / 4000K)

測試電性: AC 220 V 60 Hz

Risk	Action spectrum	Symbol	Units	Emission Measurement					
				Exempt		Low risk		Mod risk	
				Limit	Result	Limit	Result	Limit	Result
Actinic UV	$S_{UV}(\lambda)$	E_s	$W \cdot m^{-2}$	0,001	5.74E-05	0,003	-	0,03	-
Near UV		E_{UVA}	$W \cdot m^{-2}$	10	7.83E-06	33	-	100	-
Blue light	$B(\lambda)$	L_B	$W \cdot m^{-2} \cdot sr^{-1}$	100	3.24E+01	10000	-	4000000	-
Blue light, small source	$B(\lambda)$	E_B	$W \cdot m^{-2}$	1,0*	n/a	1,0	-	400	-
Retinal thermal	$R(\lambda)$	L_R	$W \cdot m^{-2} \cdot sr^{-1}$	$28000/\alpha = 1003426.02$	4.07E+02	$28000/\alpha$	-	$71000/\alpha$	-
Retinal thermal, weak visual stimulus**	$R(\lambda)$	L_{IR}	$W \cdot m^{-2} \cdot sr^{-1}$	$6000/\alpha = 215019.86$	n/a	$6000/\alpha$	-	$6000/\alpha$	-
IR radiation, eye		E_{IR}	$W \cdot m^{-2}$	100	5.15E-01	570	-	3200	-

*小型光源之角距 < 0.011 弧度。10000 秒之視場為 0.1 弧度。
 **包含非 GLS 光源 (GLS source) 之評估。

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Table 6.1 連續輻射光源之危害等級輻射限制與結果

四. 型號: BA0CWHHW0501 (200W / 3000K)

測試電性: AC 220 V 60 Hz

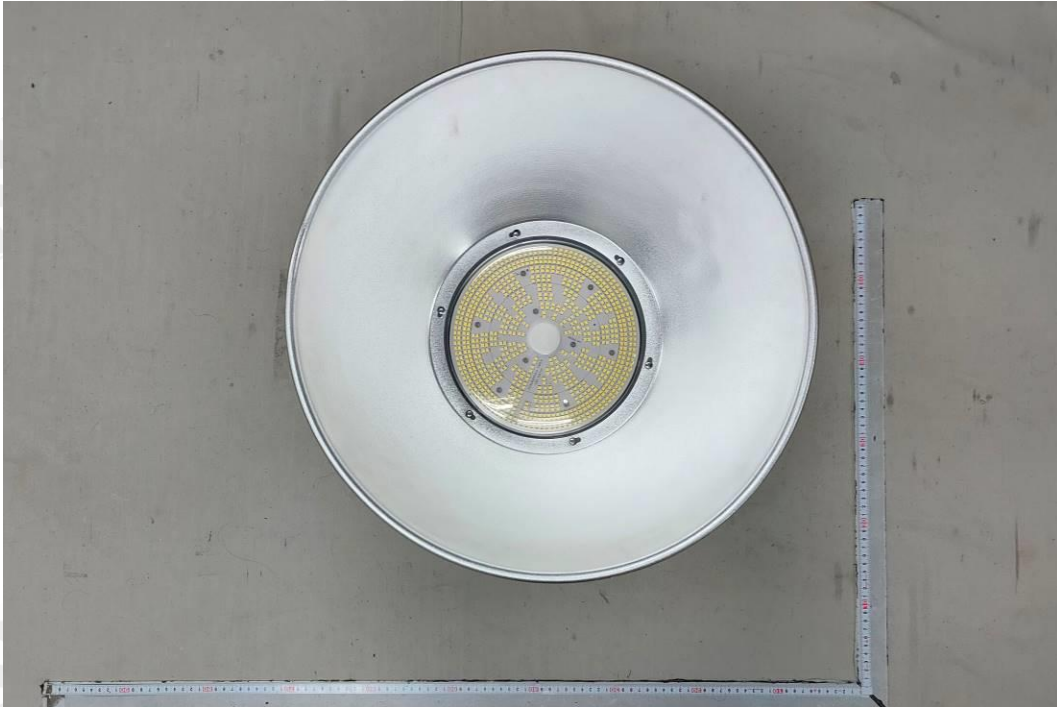
Risk	Action spectrum	Symbol	Units	Emission Measurement					
				Exempt		Low risk		Mod risk	
				Limit	Result	Limit	Result	Limit	Result
Actinic UV	$S_{UV}(\lambda)$	E_s	$W \cdot m^{-2}$	0,001	3.31E-04	0,003	-	0,03	-
Near UV		E_{UVA}	$W \cdot m^{-2}$	10	1.30E-04	33	-	100	-
Blue light	$B(\lambda)$	L_B	$W \cdot m^{-2} \cdot sr^{-1}$	100	1.85E+01	10000	-	4000000	-
Blue light, small source	$B(\lambda)$	E_B	$W \cdot m^{-2}$	1,0*	n/a	1,0	-	400	-
Retinal thermal	$R(\lambda)$	L_R	$W \cdot m^{-2} \cdot sr^{-1}$	$28000/\alpha = 964721.61$	2.65E+02	$28000/\alpha$	-	$71000/\alpha$	-
Retinal thermal, weak visual stimulus**	$R(\lambda)$	L_{IR}	$W \cdot m^{-2} \cdot sr^{-1}$	$6000/\alpha = 206726.06$	n/a	$6000/\alpha$	-	$6000/\alpha$	-
IR radiation, eye		E_{IR}	$W \cdot m^{-2}$	100	6.09E-01	570	-	3200	-

*小型光源之角距 < 0.011 弧度。10000 秒之視場為 0.1 弧度。
 **包含非 GLS 光源 (GLS source) 之評估。

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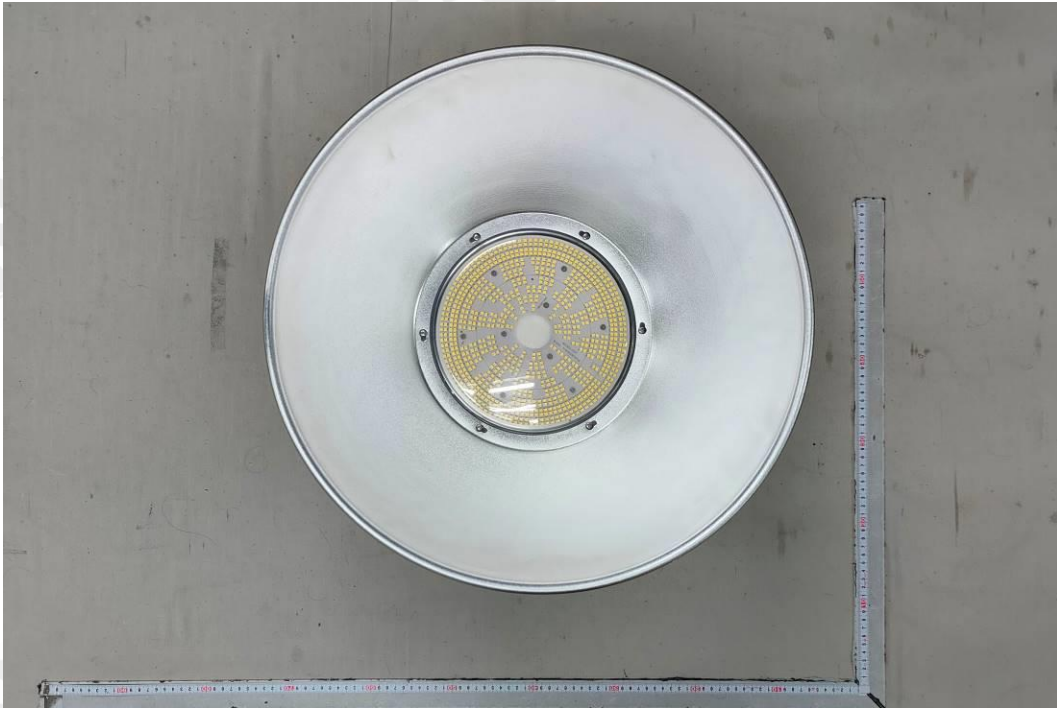
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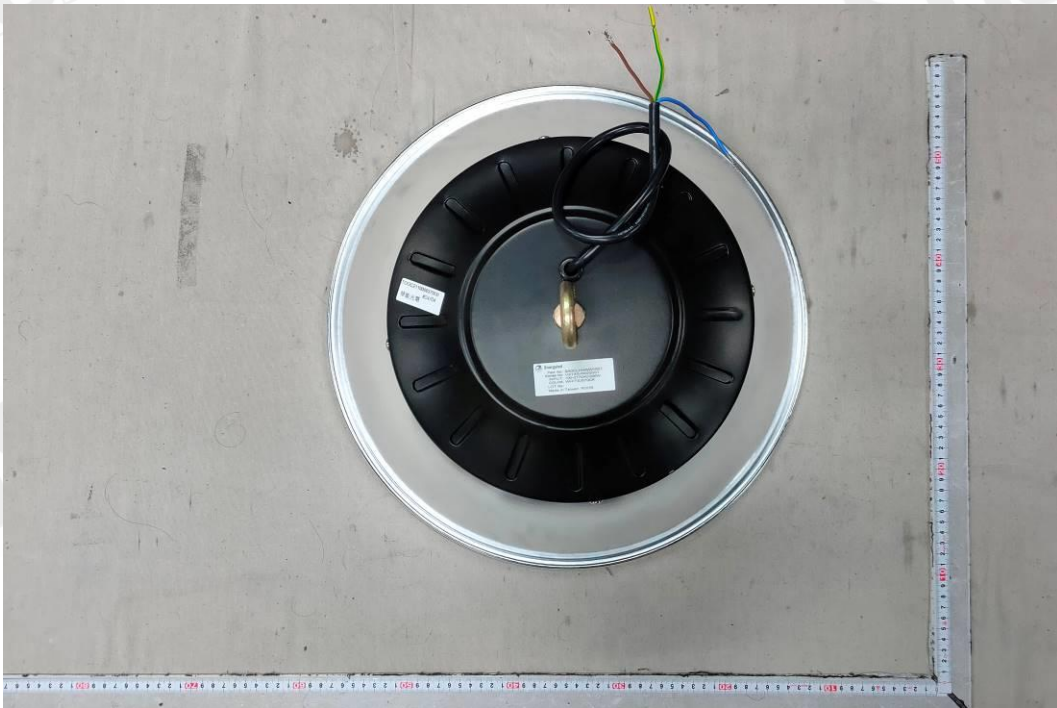
BA0CCHWW0501 - Top ViewBA0CCHWW0501 - Back View

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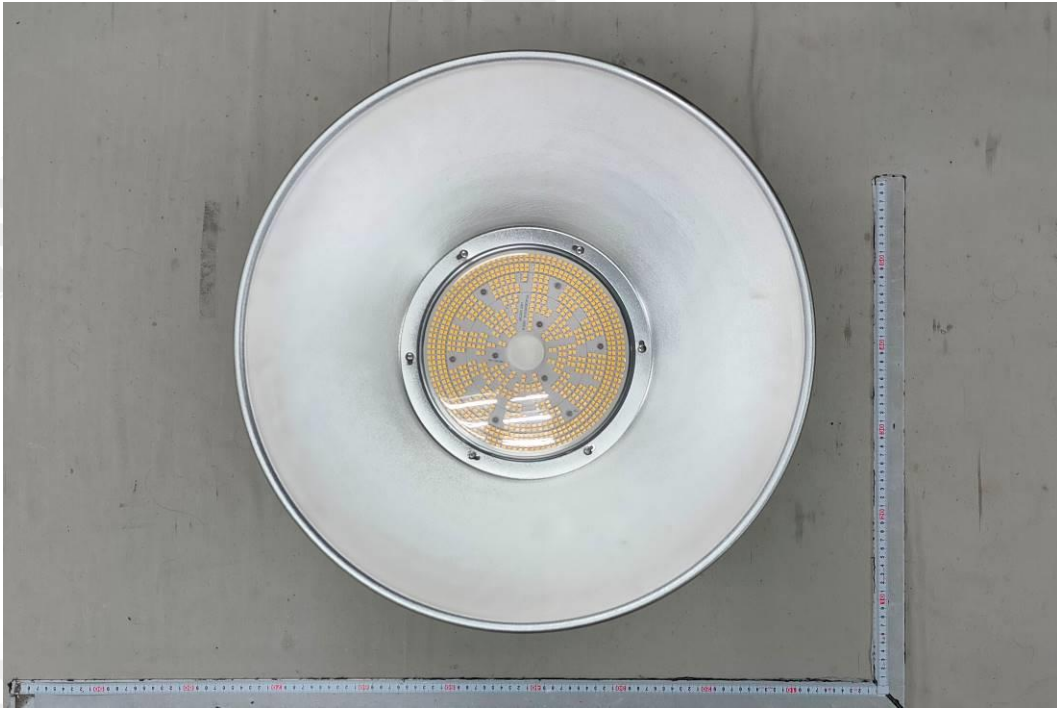
BA0CLHHWW0501 - Top View



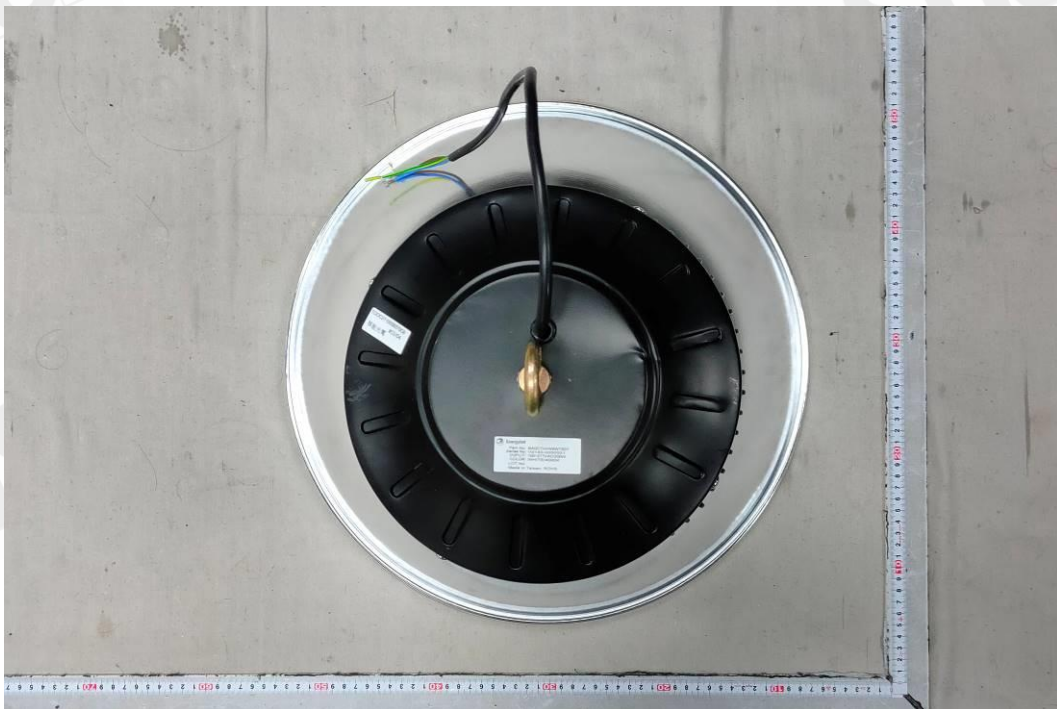
BA0CLHHWW0501 - Back View

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BA0CTHHWW0501 - Top View



BA0CTHHWW0501 - Back View

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BA0CWHHWW0501 - Top View



BA0CWHHWW0501 - Back View

- 以下空白 -

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