



# E39/40 LED High Bay Light

高天井燈介紹

---水銀燈取代最佳選擇---

# 大綱介紹

- 特性
- 規格
- 設計
- 應用
- 測試報告
- 證書





革命性產品!

## 10大特點




1. 超級亮：高光通量18000Lm
2. 節電第一：高功因，高效率設計
3. 使用方便：E40燈頭方便更換
4. 色彩鮮艷：演色性>80
5. 國際認證齊全：  
CNS, CE, CB, SAA, IEC62471, LM80
6. 最安心：護眼設計，光線無閃頻設計
7. 最健康：超低電磁波設計
8. 超長壽命：>50000Hrs
9. 全球最輕：<1.4公斤
10. 快速回收投資：維護費最低，最省電

 NICHIA



# 電氣規格表



Model Name	HB40-90LT-8XX	HB40-120NI-8XX	HB40-150NI-8XX
外型尺寸 Φ*L (mm)	180 x 306mm	180 x 306mm	180 x 306mm
燈頭	E40		
輸入電壓	100~277 VAC	198~277 VAC	198~277 VAC
輸入頻率	50 ~ 60 Hz	50 ~ 60 Hz	50 ~ 60 Hz
功率因數	> 0.95	> 0.95	> 0.95
輸入瓦數	90W ± 10%	120W ± 10%	150W ± 10%
光通量	11000 流明	14500 流明	18000 流明
色溫	5700K (晝白光) / 4000K (Warm 自然光)		
透鏡角度	60 / 90 度		
LED晶片廠商			
演色性	> 80		
保護功能	OVP / OCP / OTP		
LED晶片使用數量	171PCS	171PCS	171PCS
重量	1400 gm	1400 gm	1400 gm
操作溫度	-25°C ~ 50°C	-25°C ~ 50°C	-25°C ~ 50°C
壽命	50000Hrs	50000Hrs	50000Hrs



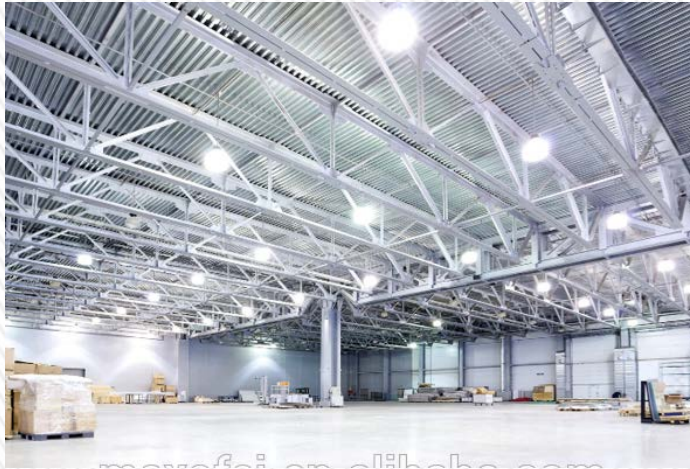


# 與市售LED天井燈比較表

達源與業界一流材料商合作打造世界第一的次世代革命性產品  
以技術領先業界, 以品質讓客戶安心

	 Wight 150W LED High Bay	Conventional 150W LED High Bay 
Lamp Cap	★ E39/E40	NA
Installation Cost	★ Lowest	Highest
Maintenance Cost	★ Lowest	Highest
LED Driver Efficiency	★ > 97%	88~92%
Power Factor	★ > 0.95	>0.9
Lumen Output	★ 18000 Lm	12500~13500Lm
Flicker	★ Flicker Free	Flicker
LED Chips	★ NICHIA	China low cost chip
CRI	★ >80	65~70
System Efficiency	★ >120Lm/W	85~95Lm/W
Protection	★ OTP/OVP/OCP	NA
Anti-Surge Ability	★ 6KV	2KV or NA
Dimension	★ Small	Huge
Weight	★ 1400 gm	>10000gm(10KG)
Life Time	★ 50000Hrs	25000Hrs

# 應用



- ◆ 達源LED天井燈可置換400W水銀燈，複金屬燈，高壓鈉燈
- ◆ 超高效率設計，亮度更量，電費更省，同等200W LED天井燈亮度
- ◆ 電源內建不須額外接安定器，直接交流電輸入，免除額外安定器購置維護成本
- ◆ 可應用在6~10米高度之場所，如倉庫，工廠，展覽館，體育場，賣場等等
- ◆ 安裝時避免放入燈罩內，以延長使用壽命



# 應用(配件)

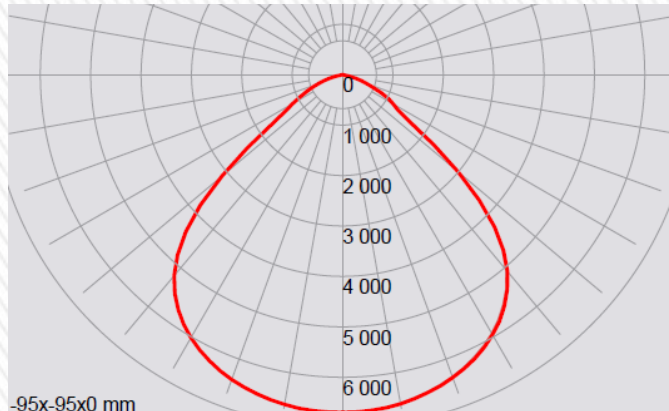


- ◆ 適用現有E40燈座
- ◆ 可選購安全繩來加強工廠環境安全

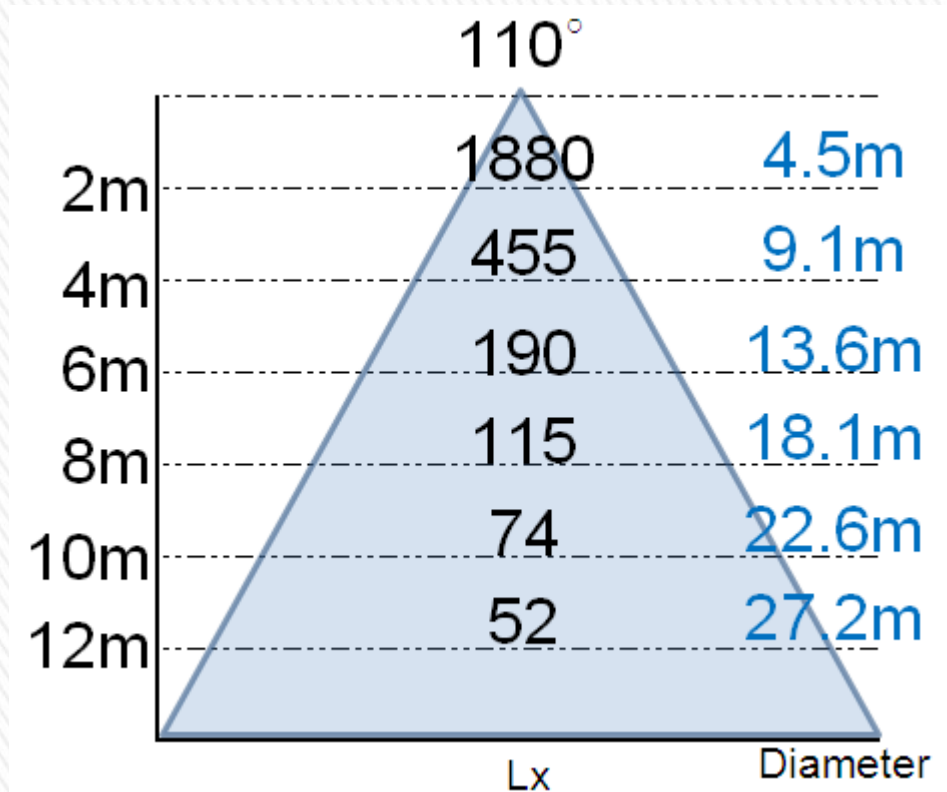


# 應用(光型圖)

可至官網下載IES檔模擬



-95x-95x0 mm  
Manufacturer: EnergyPro Technology Co., LTD.  
Luminaire catalog: 150W Proto  
Luminaire: High Bay Light

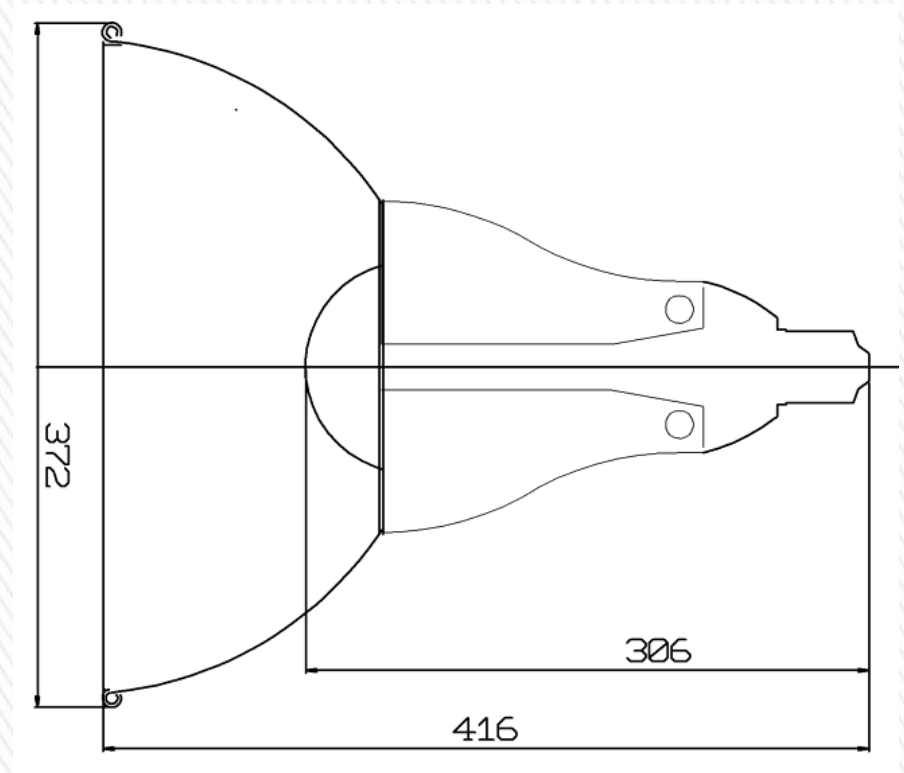
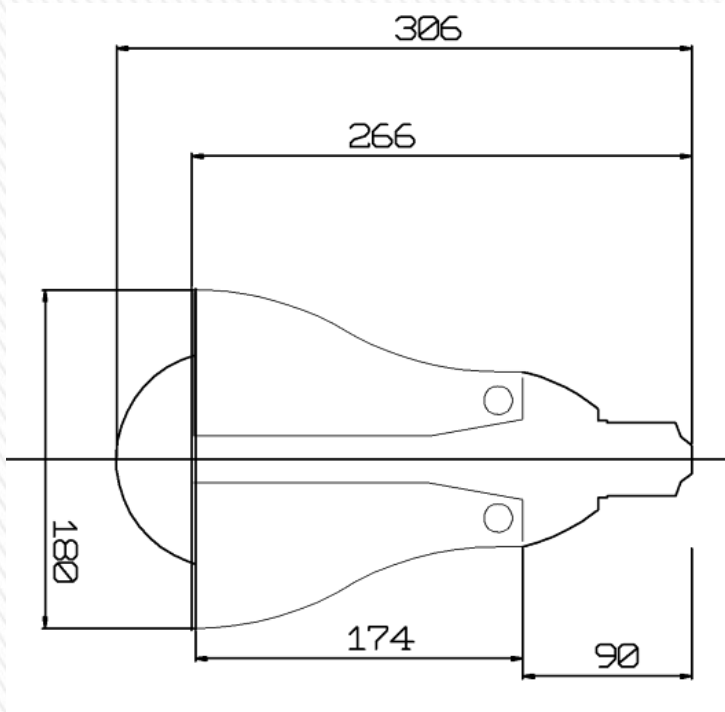


IES 模擬





# 機構外型



# 光學量測

## Great One Global Certification Co.

Product: 150W LED High Bay Light  
Manufacturer: EnergyPro Technology  
Sample No.: 12-3 (initial)  
Tested By: Kevin Wang

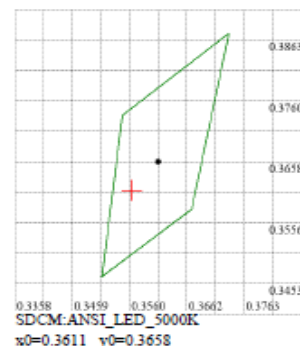
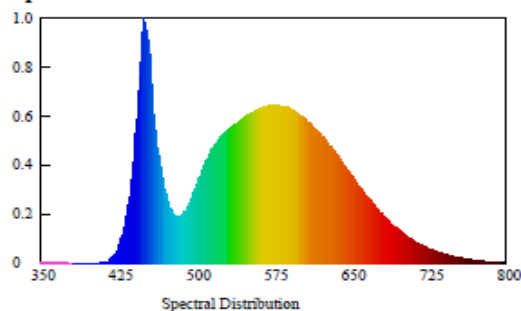
Date: 02-26-2015  
Reviewed By: David Yuan

### Test Condition

Temperature: 25.23.0°C  
Spectrum Range: 350-800 nm

RH: 54.0%  
Scan Step: 5 nm

### Spectroradiometric Parameters



Chromaticity Coordinates:  $x=0.3565$   $y=0.3610$   $u'=0.2155$   $v'=0.4909$

Correlated Color Temperature: 4920.2 K

Dominant Wavelength: 574.0 nm(E)

Luminous Flux: 17881.2 lm

Purity: 0.1526

Chromaticity Difference: +0.00029Duv

Peak Wavelength: 451.4 nm

Color Ratio:  $K_r=34.8\%$   $K_g=55.4\%$   $K_b=9.8\%$

Color Tolerance: 0.0 SDCM

Bandwidth: 21.3nm

Radiant Flux: 39.46 W

Rendering Index:  $R_a=82.2$

R1=81 R2=87 R3=89 R4=81 R5=80 R6=79 R7=89 R8=71

R9=20 R10=67 R11=79 R12=52 R13=82 R14=94 R15=78

### Electric Parameters

Voltage: 220.00 V

Current: 0.69 A

Power Factor: 0.9772

Power: 148.2 W

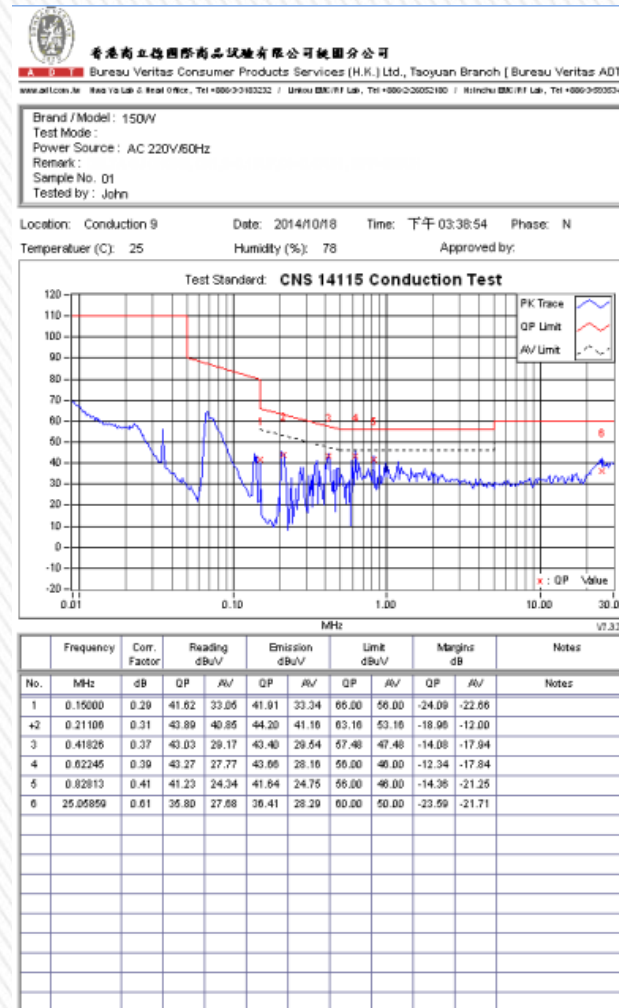
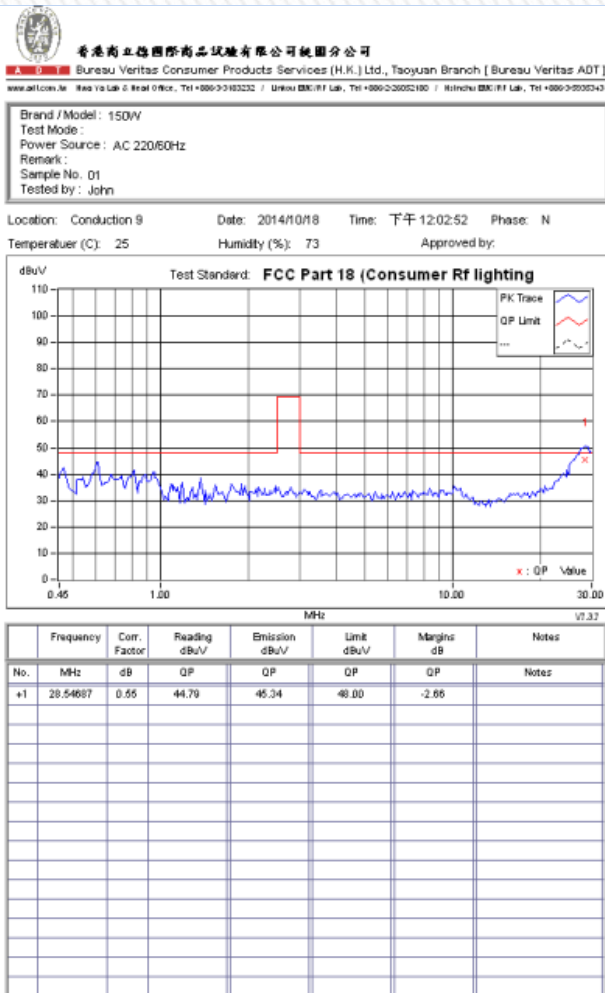
Luminous Efficacy: 120.66 lm/W



# EMC 低電磁波報告

## FCC part 18

## CNS 14115



# IEC62471 無藍光報告



Report #: SQJTB14032601L-23E

日亞化官方授  
權達源報告書

## PHOTOBIOLOGICAL SAFETY EVALUATION OF LED PRODUCTS

Prepared for

EnergyPro Technology Co.,LTD

The signer of this document certifies on behalf of Nichia Corporation that, to the best of Nichia Corporation's knowledge the product below was tested and evaluated by Nichia Corporation in compliance with IEC 62471(2006) assigned to the risk group specified as follows:

### CLASSIFICATION

Part Description: WHITE LED  
 Part Number: NF2W757DRT-V1  
 Risk Group: Exempt Group (for general lighting service (GLS) lamps)  
 Risk Group 2 (for all other light sources)  
 [ $I_e = 200$  mADC, Absolute Maximum Ratings]

### DETAILS OF EVALUATION

#### Characteristics

Apparent source size	Luminous Flux [ $I_e = 150$ mADC]
1.25 mm	133.9 lm (Rank P19)

#### Evaluation Results:

Hazard Name	Symbol	Measurement Value <sup>*1</sup>	Emission Limits			Units	Risk Group
			Exempt	Low-Risk	Mod-Risk		
Actinic UV	$E_U$	"	$10^{-3}$	$3 \times 10^{-3}$	$3 \times 10^{-2}$	W/m <sup>2</sup>	Exempt Group <sup>*3</sup>
Near UV	$E_{UV-A}$	"	10	33	$10^2$	W/m <sup>2</sup>	Exempt Group <sup>*3</sup>
Retinal blue-light <sup>*6</sup>	$I_B$	N/A	$10^2$	$10^4$	$4 \times 10^6$	W/m <sup>2</sup> /sr	N/A
Retinal blue-light, small source	$E_B$	$3.75 \times 10^{-4}$ <sup>*4</sup> $1.12$ <sup>*5</sup>	1	1	$4 \times 10^2$	W/m <sup>2</sup>	Exempt Group <sup>*4</sup> Risk Group 2 <sup>*5</sup>
Retinal thermal	$I_R$	$5.07 \times 10^{-4}$ <sup>*4</sup> $1.52 \times 10^{-5}$ <sup>*5</sup>	$7.4 \times 10^6$ <sup>*4</sup> $4.5 \times 10^6$ <sup>*5</sup>	$7.4 \times 10^6$ <sup>*4</sup> $4.5 \times 10^6$ <sup>*5</sup>	$1.9 \times 10^{14}$ <sup>*4</sup> $1.1 \times 10^{15}$ <sup>*5</sup>	W/m <sup>2</sup> /sr	Exempt Group <sup>*4</sup> Exempt Group <sup>*5</sup>
Retinal thermal, weak visual stimulus	$I_{R,w}$	"	$5.5 \times 10^3$ <sup>*4</sup> $5.5 \times 10^3$ <sup>*5</sup>	$5.5 \times 10^3$ <sup>*4</sup> $5.5 \times 10^3$ <sup>*5</sup>	$5.5 \times 10^5$ <sup>*4</sup> $5.5 \times 10^5$ <sup>*5</sup>	W/m <sup>2</sup> /sr	Exempt Group <sup>*3</sup>
IR radiation, eye	$E_{IR}$	"	$10^2$	$5.7 \times 10^2$	$3.2 \times 10^3$	W/m <sup>2</sup>	Exempt Group <sup>*3</sup>

\*1 Only if the hazard is considered when determining the Risk Group(s) assigned to the product, the measurement value for this hazard is provided.

\*2 This product has not been evaluated for the hazard due to no emission in the applicable wavelength range.

\*3 This product has been classified as Exempt Group due to no emission in the applicable wavelength range.

\*4 For general lighting service lamps. Measurement distance: 334 mm, Aperture size: 7 mm, Angular subtense: 3.76 mrad, Ambient: 25°C/40%RH

\*5 For all other light sources. Measurement distance: 200 mm, Aperture size: 7 mm, Angular subtense: 6.28 mrad, Ambient: 25°C/40%RH

\*6 This product is not applicable to this hazard.

### NOTES

In accordance with the classification for lamps intended for general lighting service (GLS), this product was classified as Exempt Group. The measurement value for each hazard was below the emission limit for Exempt Group.

In accordance with the classification for all other light sources, this product was classified as Risk Group 2 (Mod-Risk). The retinal blue-light hazard (by small source) value exceeded the emission limit for Risk Group 1 (Low-Risk).

This report shows the LED evaluation results. When using a LED as a component of equipment, please evaluate the equipment that incorporates the LED.

Issue Date: March 20, 2015

Signature:

Name / Title:

Hitoshi TOHYAMA, Manager, Quality Assurance Dept., Optoelectronics Products BU.





# LM80 低光衰報告



## LM-80 Test Report NFSL757D

Issue Date: July 1, 2013      Revision Date: August 8, 2014  
Test Initiation Date: April 26, 2013      Test Completion Date: -  
Test Duration: 10,000 hours      Report Number: SQETMNS47101

### Customer Information:

Company Name: Nichia Corporation  
Address: 491-100, Oka, Kaminaka-cho, Anan-shi, Tokushima, 774-8601, JAPAN

### Description of Test Samples:

Classification: LED Package  
Model Name: Warm White LED  
Model Number: NFSL757D (Nominal CCT: 2700 K)

### Test Summary:

Data Set	Case Temperature [T <sub>c</sub> ]	Ambient Temperature [T <sub>a</sub> ]	Drive Current [I <sub>v</sub> ]	Lumen Maintenance at 10,000 hours	Chromaticity Shift [Δu'v'] at 10,000 hours	TM-21 Projection L <sub>50</sub> (10K)
1	55 °C	> 50 °C	65 mA	97.9 %	0.0011	> 60300 hours
2	55 °C	> 50 °C	150 mA	99.0 %	0.0014	> 60300 hours
3	55 °C	> 50 °C	180 mA	99.3 %	0.0013	> 60300 hours
4	85 °C	> 80 °C	65 mA	96.5 %	0.0010	> 60300 hours
5	85 °C	> 80 °C	150 mA	97.0 %	0.0014	> 60300 hours
6	85 °C	> 80 °C	180 mA	97.0 %	0.0017	> 60300 hours
7	105 °C	> 100 °C	65 mA	92.5 %	0.0012	> 60300 hours
8	105 °C	> 100 °C	150 mA	93.8 %	0.0020	> 60300 hours
9	105 °C	> 100 °C	180 mA	93.6 %	0.0024	> 60300 hours



Approved Signatory:

Hitoshi TOHYAMA, Lab Manager

Nichia Corporation LED Testing Laboratory  
1-1, Tatsumi-Cho, Anan-Shi, TOKUSHIMA 774-0001, JAPAN



# CNS報告

**SGS** 報告號碼: 01-2015-70147 第 1 / 17 頁

**型式試驗報告**  
CNS 15436  
安定器內藏式螢光二極體燈泡  
(一般照明用) - 安全性要求

報告號碼: 01-2015-70147  
報告簽署人: 鄒蕙明  
測試人員: 陳慶輝

報告發行日期: 2015年10月12日  
總頁數: 17  
測試實驗室: 台灣檢驗科技股份有限公司 光學實驗室  
地址: 24886 新北市五股區(新北產業園區)五權路33號  
TAF 認可編號: 2253  
申請者名稱: 亞世融企業股份有限公司  
地址: 臺北市中山區林森北路135巷16號1樓

測試規格:  
標準: CNS 15436 : 101 年版  
測試模式: 型式試驗  
非標準測試方法: 無

測試項目敘述: E40 式吊燈

商標: earthlong  
製造商: 亞世融企業股份有限公司

型號/型式參考: 主型號: HB40-120NI-857 CR; 系列型號: HB40-120NI-857 CR, HB40-90LT-857 CR, HB40-150NI-857 AL, HB40-120NI-857 AL, HB40-90LT-857 AL

額定值: 220-240 Vac, 50/60 Hz, 140 W, 0.65 A;  
HB40-150NI-857 CR, HB40-150NI-857 AL  
220-240 Vac, 50/60 Hz, 120 W, 0.56 A;  
HB40-120NI-857 CR, HB40-120NI-857 AL

SGS Taiwan Ltd. 35, Wu-Chuan Road, Wu-Hsi District, New Taipei City, Taiwan 106 台北市五權路33號  
台灣檢驗科技股份有限公司 | (886-2) 2296-9200 | (886-2) 2296-9209 www.sgs.com.tw Member of SGS Group

CNS 15436  
安全性要求

**SGS** 台灣檢驗科技股份有限公司 電子通訊實驗室  
報告號碼: EM/2015/79108 頁數: 1 of 42

**商品電磁相容試驗報告**

產品名稱: E40 式吊燈  
申請廠商: 亞世融企業股份有限公司  
製造廠商: 亞世融企業股份有限公司  
名稱標示及主要特性: AC 220-240V; 50/60Hz  
型號: HB40-150NI-857 AL  
系列型號: HB40-120NI-857 AL, HB40-90LT-857 AL, HB40-150NI-857 CR, HB40-120NI-857 CR, HB40-90LT-857 CR

該產品樣品試驗  
依據之試驗標準: CNS 14115:93 年版  
試驗結果: 合格

台灣檢驗科技股份有限公司 電子通訊實驗室  
SGS Taiwan Ltd. - Electronics & Communication Laboratory  
BSMI 認可編號代號: SL2-LI-E-0025

日期: 中華民國 104 年 11 月 04 日

報告簽署人/溫進雄 副理  
台灣檢驗科技股份有限公司

SGS Taiwan Ltd. 35, Wu-Chuan Road, Wu-Hsi District, New Taipei Industrial Park, White Clouds, New Taipei City, Taiwan 24886 台北市五權路33號  
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CNS 14115  
電磁相容

**SGS** 報告號碼: 01-2015-70149 第 1 頁, 共 24 頁 報告號碼: 154-4-101-071

**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: 01-2015-70149  
報告發行日期: 2015年10月12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: 亞世融企業股份有限公司  
地址: 臺北市中山區林森北路135巷16號1樓

委託測試產品: CNS 15592 C4529 光源及光源系統之光生物安全性 (Photobiological safety of lamps and lamp systems) (中華電 101年11月18日)  
試驗標準: NA  
測試方法: NA  
產品名稱: E40 吊燈  
品牌名稱: SANCHUNG LIGHTING  
製造商/試驗商: 亞世融企業股份有限公司  
產品型號/編號: HB40-150NI-857 AL, HB40-150NI-857 AL, HB40-90LT-857 CR, HB40-120NI-857 CR  
產品電壓規格: AC (220 to 240) V (50 / 60) Hz, 140 / 120 W

試驗結果: 符合測試之試驗標準, 符合上述標準之試驗結果 (Exempt Group)

SGS Taiwan Ltd. 35, Wu-Chuan Road, Wu-Hsi District, New Taipei City, Taiwan 106 台北市五權路33號  
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CNS 15592  
光生物安全



# CE 報告



SGS Reference No: EM/2015/70106C

## VERIFICATION OF EMC COMPLIANCE

Verification No. : EM/2015/70106C  
Representative Model No. : BLBU-140AB-340V04A  
Added Model(s) : BLBU-120AB-340V035A, BLBU-90AB-340V025A  
Product Name : E40 base high bay light  
Brand Name : EnergyPro Technology.  
Applicant : EnergyPro Technology. All Rights Reserved.  
Address of Applicant : 1F., No.16, Ln. 138, Linsen N. Rd., Zhongshan Dist., Taipei City 104, Taiwan (R.O.C.)  
Test Report Number : EM/2015/70106  
Date of Issue : **Aug. 28, 2015**  
Applicable Standards : EN 55015 : 2013  
EN 61000-3-2 : 2006+A1:2009+A2:2009, EN 61000-3-3 : 2008  
EN 61547 : 2009, IEC 61000-4-2 : 2008  
IEC 61000-4-3: 2006+A1:2007+A2:2010  
IEC 61000-4-4: 2012, IEC 61000-4-5: 2005+corr.October:2009  
IEC 61000-4-6: 2013, IEC 61000-4-11: 2004

### Conclusion

The apparatus meets the requirements of the above standards. In addition, this verification is only valid for the equipment and configuration described and in conjunction with the test report as detailed above.



Authorized Signatory:  
**Original is signed**

SGS TAIWAN LTD.  
Victor Wen  
Technical Asst. Manager



達源技術有限公司

EnergyPro Technology Co., Ltd.

