

根據強制性能源效益標籤計劃(強制性標籤計劃)進行的能源表現監察測試結果(發光二極管(LED)燈) - 2026年

Results of Compliance Monitoring Tests on Energy Performance under Mandatory Energy Efficiency Labelling Scheme (MEELS)

(Light Emitting Diode (LED) Lamps) - Year 2026

項目 No.	品牌 Brand	型號 Model Name	接機電工程署編配 參考編號 EMSD Assigned Reference Number	強制性標籤計劃下的能 源效益級別 Energy Efficiency Grade under MEELS	額定發光效率 (流明/瓦) Rated Luminous Efficacy (lm/W)	額定光通量 (流明) Rated Luminous Flux (lm)	額定功率消耗量 (瓦) Rated Power Consumption (W)	測試出的發光效率 (流明/瓦) ^{註A2} Measured Luminous efficacy (lm/W) ^{Note A2}	測試出的光通量 (流明) ^{註A2} Measured Luminous Flux (lm) ^{Note A2}	測試出的功率消耗 量(瓦) ^{註A2} Measured Power Consumption (W) ^{Note A2}	是否符合強制性標籤計 劃的要求? ^{註A1} Conformance with MEELS Requirements? ^{Note A1}	備註 Remark
測試結果發放日期: 2026年09月 Test Results Release Date: September 2026												
1	陽光 SUNSHINE	LUFOB-20B22T	A240486	2	100	2000	20	103.99	1940.30	18.66	是 Yes	
2	飛利浦 PHILIPS	9290030067	A230010	2	97	580	6	122.93	691.25	5.62	是 Yes	
3	FL	FL-A65-12W-E27-30K	A240533	1	110	1320	12	111.25	1228.68	11.05	是 Yes	
4	歐麗 Omni	LLG45E14-4W-2K	A240522	1	110	440	4	116.94	459.85	3.93	是 Yes	
5	飛利浦 PHILIPS	9290019719 2715lm	A240388	1	113	2715	24	117.28	2644.40	22.55	是 Yes	

- 註: A1. 如LED燈某表列型號的測試結果符合以下標準 (產品能源標籤實務守則 2024 (守則) 第15.10.1段) 的要求, 則該表列型號會獲接納為符合有關規定:
- (a) 樣本中每個單獨測試的 LED 燈所量度出的初始光通量不得比額定光通量少 10%以上。所有受測試的燈所量度出的初始光通量的平均值不得比額定光通量少 7.5%以上;
 - (b) 樣本中每個單獨測試的 LED 燈所量度出的初始功率消耗量不得比額定功率消耗量多 10%以上。所有受測試的燈所量度出的初始功率消耗量的平均值不得比額定功率多 7.5%以上;
 - (c) 在備用模式時, 其電燈所量度出的初始備用功率消耗量的平均值不得多於 0.5瓦;
 - (d) 樣本中每個單獨測試的 LED 燈所量度出的顯色指數 (初始值及在 6 000 小時結束時的數值) 均不得少於 80;
 - (e) 樣本中每個單獨測試的 LED 燈所量度出的色度分布 (初始值及在 6 000 小時結束時的數值) 須維持於 6 階麥克亞當橢圓 (MacAdam ellipse) 之內;
 - (f) 若額定功率超過 2 瓦和少於或等於 5 瓦, 平均位移因數不得低於 0.4; 若額定功率超過 5 瓦和少於或等於 25 瓦, 平均位移因數不得低於 0.7; 若額定功率超過 25 瓦, 平均位移因數不得低於 0.9;
 - (g) 對於額定電燈壽命超過或等於 30 000 小時的 LED 燈, 每個單獨測試的 LED 燈的開關循環次數須超過或等於 15 000 次。對於額定電燈壽命少於 30 000 小時的 LED 燈, 每個單獨測試的 LED 燈的開關循環次數須超過或等於額定電燈壽命的一半 (以小時計) ;
 - (h) 在 6 000 小時後量度出的流明維持率平均值不得低於 80%;
 - (i) 在 6 000 小時後量度出的電燈存活率不得低於 90%; 及
 - (j) 在監察測試中所計算出的能源效益級別, 相等於指明人士向署長呈交的測試結果所釐定的能源效益級別或較該級別為佳。
- A2. 表列的數值經四捨五入方式顯示。

- Note: A1. A listed model of LED lamp will be accepted as conformance if the test results of the listed model meet the following criteria (clause 15.10.1 of the Code of Practice on Energy Labelling of Products 2024 (the Code)):
- (a) The initial luminous flux of each individual LED lamp in the measured sample shall not be less than the rated luminous flux by more than 10%. The average of the measured initial luminous flux of all tested lamps shall not be less than the rated luminous flux by more than 7.5%;
 - (b) The initial power consumed by each individual LED lamp in the measured sample shall not exceed the rated power by more than 10%. The average of the measured initial power consumption of all tested lamps shall not exceed the rated power by more than 7.5%;
 - (c) The average of the measured initial standby power consumption shall be no more than 0.5W in standby mode;
 - (d) The colour rendering index of each individual LED lamp in the measured sample shall not be less 80 in the initial measurement and at the end of 6 000 hours;
 - (e) The spread of chromaticity of each individual LED lamp in the measured sample shall fall within a 6-step MacAdam ellipse in the initial measurement and at the end of 6 000 hours;
 - (f) For rated power that is greater than 2W and less than or equal to 5W, the average displacement factor shall not be less than 0.4; for rated power that is greater than 5W and less than or equal to 25W, the average displacement factor shall not be less than 0.7; for rated power that is greater than 25W, the average displacement factor shall not be less than 0.9;
 - (g) For rated lamp life that is greater than or equal to 30 000 hours, the number of switching cycles of individual tested LED lamp shall be greater than or equal to 15 000 cycles; for rated lamp life that is less than 30 000 hours, the number of switching cycles of individual tested LED lamp shall be greater than or equal to half the rated lamp life in hours;
 - (h) The average measured lumen maintenance at the end of 6 000 hours shall not be less than 80%;
 - (i) The measured lamp survival factor at the end of 6 000 hours shall not be less than 90%; and
 - (j) The energy efficiency grade calculated in the compliance monitoring testing being equal to or better than the energy efficiency grade determined by the test results submitted to the Director by the specified person.
- A2. All values are rounded figures.