

# 可調光譜之固態照明光源

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## 摘要

目前市面上最新的趨勢就是用固態照明取代傳統照明，然而單一照明設備也只侷限於固定光譜的單一色溫上，所以如果能透過在照明設備上獨立調整各色發光二極體的強弱，進而達到改變照明光源的色溫，讓照明設備有更廣泛的使用空間。本實驗挑選現今市售各種波長的發光二極體，設計出排列位置組合進行混光，經由簡單的電路改變電流大小得以調整強弱。透過改變各發光二極體亮度的強弱，進而調整照明光源之色溫，並進一步探討相同色溫，但光譜不同的照明光源特性。最後從現色性來討論調整照明光源對其中之差異，比較是否有辦法能夠利用調整來提升現色性指數，使得照明能有更飽和及真實的色彩呈現。

關鍵詞：固態照明光源、現色性、現色性指數

## 目錄

目錄	封面	內頁	簽名頁	授權書	英文摘要	v	致謝	vi	目錄	vii	圖目錄	ix	表目錄	xii	第一章	序																																																													
論	.....	1	1.1 研究背景	.....	1	1.2 研究動機與目的	.....	2	1.3 論文大綱	.....	3	第二章 發光二極體與照明原理	.....	4	2.1 發光二極體原理	.....	4	2.2 光度學簡介	.....	6	2.3 色度學簡介	.....	8	2.4 標準照明體	.....	11	2.5 色溫與相關色溫	.....	11	2.6 現色性	.....	14	2.7 固態光源介紹	.....	18	第三章 實驗前置作業	.....	20	3.1 實驗器材	.....	20	3.2 以直徑5 mm圓形發光二極體測試	.....	21	3.3 實驗用發光二極體選用	.....	28	3.4 實驗用發光二極體量測	.....	30	3.4.1 發光二極體電流對電壓(I-V)特性量測	.....	30	3.4.2 發光二極體發散角量測	.....	34	3.4.4 發光二極體輻射效率圖	.....	39	3.4.5 預計混光之現色性指數比較圖	.....	44	第四章 實驗結果與討論	.....	46	4.1 發光二極體預想排列組合	.....	46	4.2 可調光譜之量測與距離關係	.....	48	第五章 結論	.....	59	參考文獻	.....	60

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