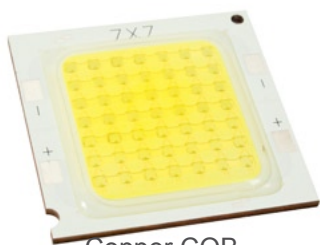


# Copper COB Light Engine Series 銅基板光引擎

# Ceramic COB Light Engine Series 陶瓷基板光引擎

ProLight Copper or Ceramic COB series are a compact high flux density light source with multi-chips in array. Featuring copper or ceramic(direct bonding copper) PCB, the COB LEDs are designed for large, open area lighting, including street, wide area, high/low bay, and commercial lighting, speeding up the replacement of halogen, incandescent and fluorescent conventional light sources.



Copper COB  
Light Engine Series  
銅基板光引擎



Ceramic COB  
Light Engine Series  
陶瓷基板光引擎

## Main Applications

- Street light · 路燈
- High/low bay · 工廠/礦用/天井燈
- Commercial lighting · 商業照明

## Features

- Compact high flux density light source · 高強度的光源
- High quality uniform illumination · 均勻且優質的光效
- Industries lowest thermal resistance · 業界最低熱阻
- Available in copper and ceramic PCB · 銅基板或陶瓷基板選擇
- Combine with heatsink by soldering · 基板能與燈具銲接

## PCB type analysis of performance/ PCB 基板功能分析

PCB Type 基板種類	Cost / \$USD	Break Down Voltage 耐高壓	Soldering to Heatsink 燈具銲接	Thermal Conductivity 熱傳導能力	Impact Strength 耐衝擊(裂)
MPCB - Aluminum (Metal Core Printed Circuit Board) 鋁基板	1	△	×	×	✓
COB - Aluminum (Chip on Board) 鑲空鋁基板	1.5	×	×	✓	✓
COB - Copper (Chip on Board) 銅基板	2	×	✓	✓	✓
DPC - Thin Film(Direct Plate Copper) 薄膜陶瓷基板	6	✓	✓	✓	×
LTCC (Low-Temperature Co-fired Ceramic) LTCC(低溫燒結)陶瓷基板	5	×	✓	✓	×
DBC - Thick Film(Direct Bonding Copper) 厚膜陶瓷基板	3	✓	✓	✓	✓

## Copper COB Light-Engine LEDs

Part Number	Color	CCT(K)	Vf (V) (Typ.)	Test Current (mA)	Watts	Flux(lm) (Typ.)	CRI	Lm/W
PU77-60LWP	White	4100~10000K	22.8	2450	55W	5000	70	90
PU77-40LWP	White	4100~10000K	21.7	1750	40W	2750	70	99
PU77-60LVP	Warm White	2650~4100K	22.8	2450	55W	3600	80	65
PU77-40LVP	Warm White	2650~4100K	21.7	1750	40W	2800	80	74

## Ceramic COB Light-Engine LEDs

Part Number	Color	CCT(K)	Vf (V) (Typ.)	Test Current (mA)	Watts	Flux(lm) (Typ.)	CRI	Lm/W
PE77-60LWP	White	4100~10000K	22.8	2450	55W	5000	70	90
PE77-40LWP	White	4100~10000K	21.7	1750	40W	2750	70	99
PE77-60LVP	Warm White	2650~4100K	22.8	2450	55W	3600	80	65
PE77-40LVP	Warm White	2650~4100K	21.7	1750	40W	2800	80	74

Add : 3F No. 12, Kung-Yeh 10th Rd., Ping Chen Industrial Zone,  
Ping Chen, 324, Taoyuan Hsien, Taiwan

TEL : +886-3-4192099 <http://www.prolightopto.com>

FAX : +886-3-4192377 E-mail : [sales@prolightopto.com](mailto:sales@prolightopto.com)