



## CBT-90 Big Chip White LED



### Description

---

Designed for high brightness specialty lighting applications, the CBT-90 is engineered for illumination systems that require maximum lumens/mm<sup>2</sup> at the source. Featuring a low profile window and direct chip-to-air emission, the CBT-90 is optimized for coupling to proximity optics and optical fiber.

### Features & Benefits

---

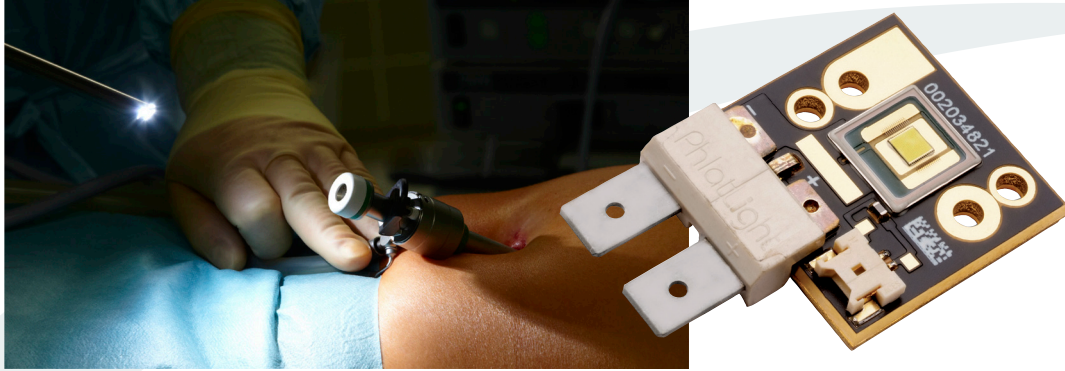
- Over 2,250 lumens
- Thermal resistance of only 0.92 °C/W
- Lumen maintenance of greater than 70% after 60,000 hours
- Environmentally friendly: RoHS compliant
- High reliability

### Applications

---

- Medical illumination
- Fiber Coupled Illumination
- Entertainment Wash Lighting
- Microscopy
- Automotive Forward Lighting

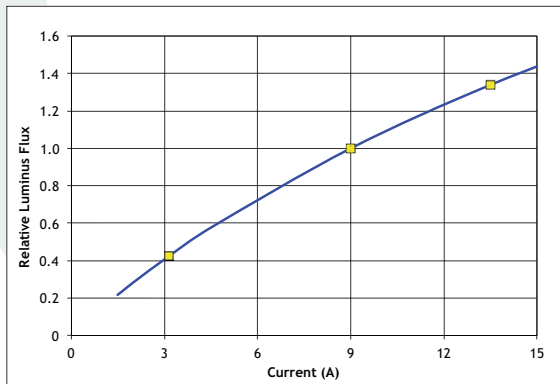
# CBT-90 Big Chip White LED



## Product Performance

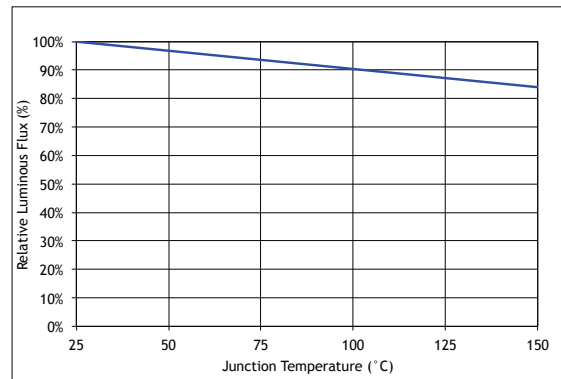
Product	Max. Lumens	Color	Typical CRI	Input Power	Typical Voltage, Current
CBT-90	1,700	5,700K	93	3W to 60W	3.6V, 9.0A
	2,250	6,500K	73	3W to 60W	3.6V, 9.0A

## Relative Luminous Flux vs. Forward Current ( $T_j = 25^\circ\text{C}$ )



Yellow squares indicate reference drive conditions

## Relative Luminous Flux vs. Junction Temperature ( $I_f = 1.0\text{A}$ )



## Where to Buy

### North America:

Avnet Electronics Marketing  
Tel: +1 480.643.8329  
phlatlight@avnet.com  
www.em.avnet.com

Mouser Electronics, Inc.  
Tel: +1 800.346.6873  
Sales@mouser.com  
www.mouser.com

### Europe, Middle East, Africa:

EBV Elektronik GmbH & Co.KG  
Tel: +49 8121.774 0  
generallighting@ebv.com  
www.ebv.com

Mouser Electronics, Inc.  
Tel: +1 800.346.6873  
Sales@mouser.com  
www.mouser.com

### Japan:

Marubun Corporation  
ytaniguc@marubun.co.jp  
www.marubun.co.jp

Mouser Electronics, Inc.  
Tel: +1 800.346.6873  
Sales@mouser.com  
www.mouser.com

### Asia-Pacific:

Avnet Asia (HQ -Singapore)  
Tel: +65 6580.6000  
asean@avnet.com  
www.em.avnetasia.com

Comex Technology  
Tel: +852 3113.0105  
steve.ho@comex-tech.com  
www.comex-tech.com

Mouser Electronics, Inc.  
Tel: +1 800.346.6873  
Sales@mouser.com  
www.mouser.com