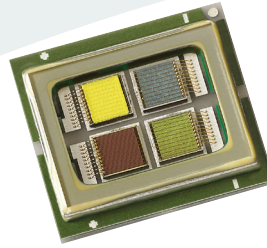




## SBM-160 Big Chip RGBW LED



### Description

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The SBM-160 Color Mix LED can generate 1,000+ color balanced white lumens, and consists of an array of individually addressable Red, Green, Blue and White emitters in a surface mount package. Each chip emits directly to air, which enables the use of proximity optics for color mixing and the elimination of color fringing.

### Features & Benefits

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- Extremely high optical output: up to 265 Red lumens  
up to 640 Green lumens  
up to 84 Blue lumens  
up to 540 White lumens
- High thermal conductivity package - junction to heat sink thermal resistance as low as 1.48 °C/W per die
- Photonic lattice technology for very high surface brightness and uniform emission
- Four Big Chips with emitting area of 4 mm<sup>2</sup> each
- High luminous efficacy
- Lumen maintenance of greater than 70% after 60,000 hours
- Environmentally friendly: RoHS compliant
- Variable drive currents: 1A – 4A to full reliability
- Available in RGBW combination

### Applications

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- Entertainment
- Architectural Lighting
- Medical Lighting
- Spot Lighting
- Fiber Coupled Illumination
- Emergency Vehicle Lighting
- Machine Vision
- Displays and Signage

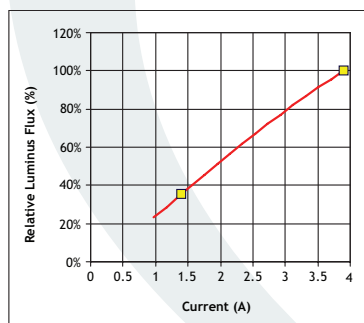
# SBM-160 Big Chip RGBW LED



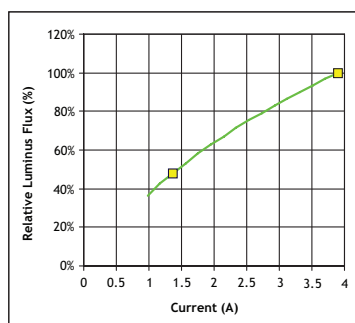
## Product Performance

Product	Emitter	Dominant Wavelength	Chip Emitting Areas	Drive Current Typical (CW)	Lumen Range
SBM-160	Red	621nm	4.0mm <sup>2</sup>	4.0A	160-215 lumens
	Green	527nm	4.0mm <sup>2</sup>	4.0A	400-550 lumens
	Blue	458nm	4.0mm <sup>2</sup>	4.0A	65-90 lumens
	White	6500K CCT	4.0mm <sup>2</sup>	4.0A	440-510 lumens

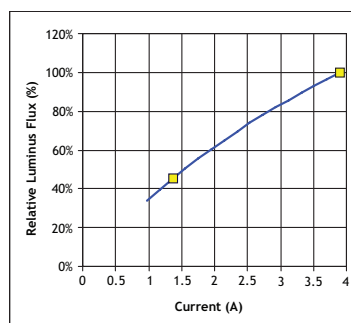
### Red Flux



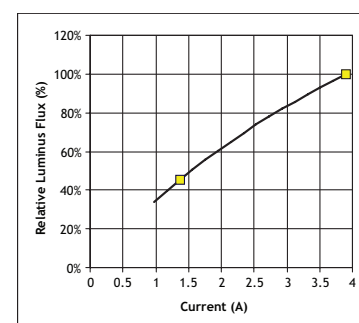
### Green Flux



### Blue Flux



### White Flux



## Where to Buy

### North America:

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

Mouser Electronics, Inc.  
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### Europe, Middle East, Africa:

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