

FlexRad®  
**BOARD  
ON COIL™**  
MINNIE

## Small, Powerful Directional LED

MetroSpec Technology has leveraged its novel BoardOnCoil™ (BOC) technology to create the BOC Minnie. This new geometry can be used for pendant downlights, spot lights, sconces, acrylic rod lighting, and a wide variety of single-sided and double-sided directional fixtures. At less than 40 mm in diameter and under 20 mm in depth (including optic and heat sink), this light source is extremely compact. Powered up to 8 watts and capable of over 160 lumens per watt, the module is entirely self-cooled, requiring no separate heat sink.

### Lightweight and Compact

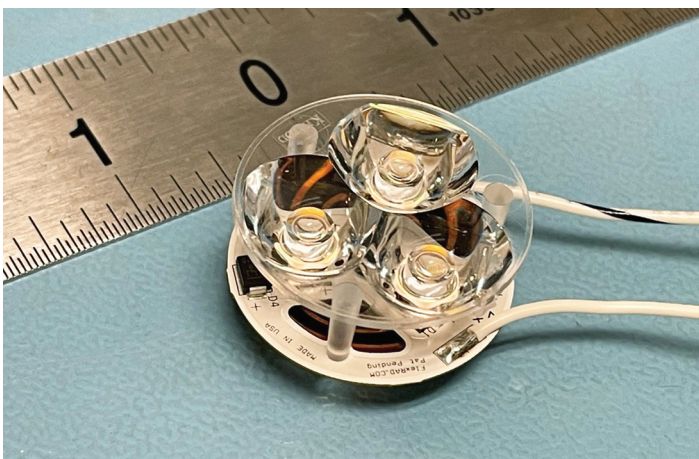
The BOC Minnie's extreme power-to-size ratio is enabled by direct bonding of a copper coil and a clear path of air flow through the center of the assembly. The assembly with optics weighs less than 20 grams. Available in almost



every color and color temperature, as well as a variety of LED types, BOC Minnie fits neatly into, or allows the miniaturization of, a variety of light fixtures.

### Open Center Mounting

Because of its open center coiled fin design, BOC Minnie allows air to freely pass through for self cooling without any kind of external protrusion. This makes it perfect for mounting in cylinders, pendants, or sconces - without making tradeoffs. With an optic, light can be focused to as little as a 9 degree beam angle.



## A P P L I C A T I O N S

Downlights	Commercial/Office
Cylinders	Architectural
Sconces	Direct/Indirect
Pendants	Up/Down and Both



## Trusted Manufacturer of Patented FlexRad® High-Intensity LED Light Circuits

MetroSpec Technology® manufactures FlexRad® LED light sources exclusively for light fixture manufacturers needing the best efficiency, highest reliability, and most cost-effective solutions. For more than a decade, MetroSpec has been providing lighting OEMs with the finest LED technology and services to help them quickly and confidently pursue LED fixture sales.

### Strong Personal Relationships

Partnerships are the center of MetroSpec's business. We collaborate with our customers, enabling them to win more projects and grow their businesses. Using our patented technology and industry expertise, we act as navigators to guide our customers through the challenges of LED light engine design.

### Speed and Efficiency

Delivering customized LED light circuit technology quickly is one of our strongest attributes. We understand the urgency of orders and the need for quick delivery. It is our priority to rapidly fulfill custom orders to exact specifications by maintaining a complete inventory of critical components.

### Customers Control Their Own Designs

Our customers have complete control over their designs every step of the way. Private label LED light sources are never discontinued or changed without permission, therefore eliminating costly redesigns and new testing. MetroSpec is a trusted supplier and not a competitor.



### Strong and Stable Supplier

For more than a decade, MetroSpec has been specializing in quality LED solutions for light fixture manufacturers. Our well-established and patented FlexRad solid state lighting technology has proven to be extremely reliable in a wide range of applications. Millions of FlexRad circuits are installed worldwide and installations grow by miles every week.

### Made in America

FlexRad is manufactured in Minnesota assuring direct communication and fast response. MetroSpec's lean, US-based manufacturing guarantees shorter lead times, highest quality, and lowest overall costs. With processes based on ISO and IPC standards, every FlexRad circuit is inspected and tested to ensure exceptional quality and near zero defects. Our customers are confident FlexRad is the best LED solution.



### Superior LED Light Circuit Technology

- High-Performing Flexible Circuits
- Reel and Trim Capability
- Superior Heat Dissipation
- Exceptional Performance at Low Cost

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**Made in the U.S.A.**  
using highest quality LEDs.