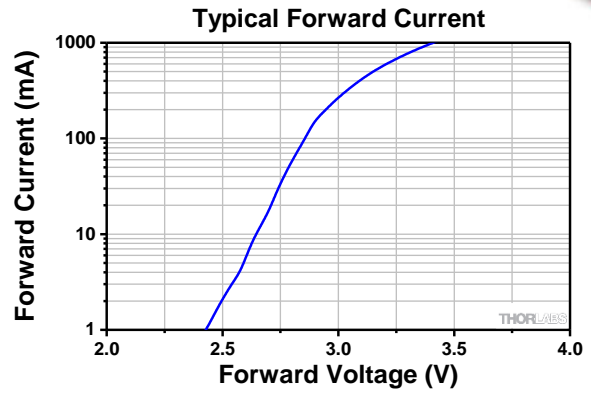
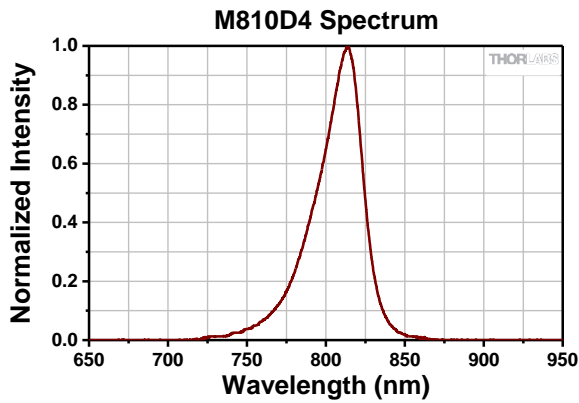
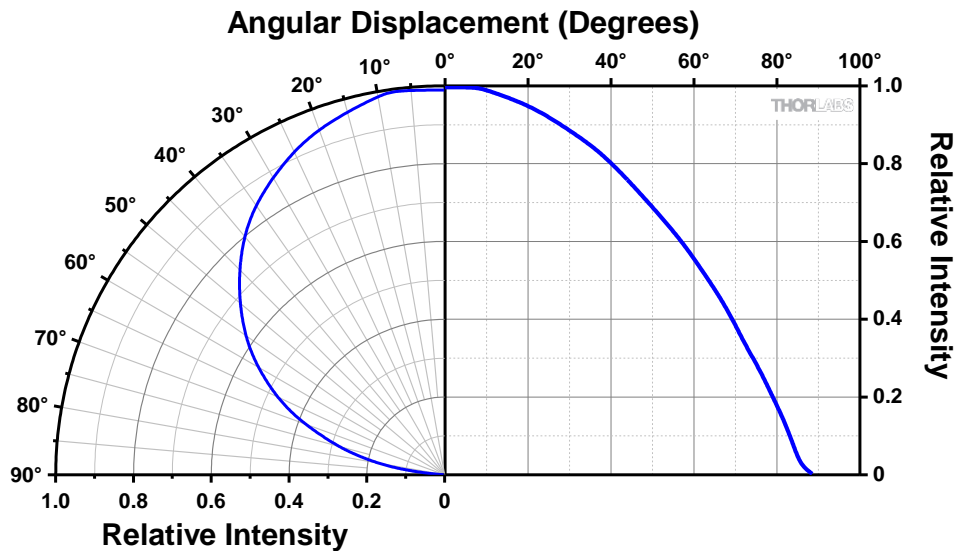


Typical Performance Plots

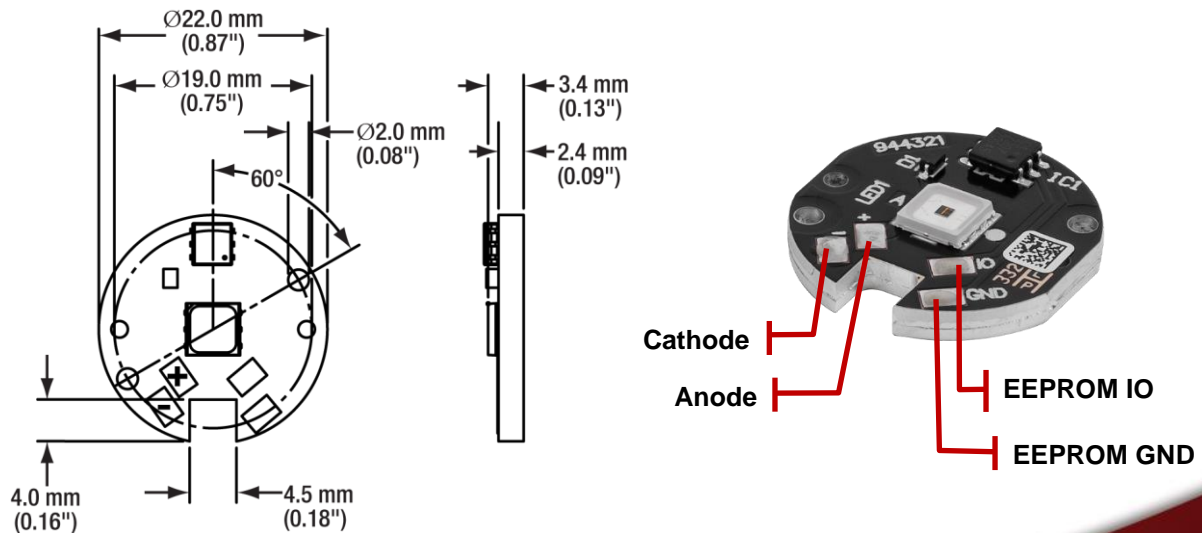


M810D4 Spatial Radiation Distribution



Data Refers to Bare LED

Drawings



January 17, 2023

MTN031562-S01, Rev A

www.thorlabs.com/contact

Power Supply

Please see the Thorlabs website for the available LED drivers. When selecting the LED driver, ensure that:

- The operating current never exceeds the maximum current specified in the LED specification table.
- Sufficient forward voltage is supplied.

If you decide to use your own DC source, please ensure that the correct connection is made to Pins 1 and 2.

Maintenance and Service

This LED is not water resistant and must be protected from adverse weather conditions. To avoid damage, do not expose it to spray, liquids, or solvents. This LED does not contain any parts serviceable by the user and does not require regular user maintenance. Do not open the enclosure. If a malfunction occurs, contact Thorlabs for return instructions.

Warnings and Safety

During normal operations, the PCB temperature may exceed ambient temperature. To prevent higher PCB temperatures, the product should be operated without anything hindering air movement around the cooling system attached by the customer.

Please note that this product is not suitable for household room illumination.

This LED must not be operated in explosive environments and should only be used with shielded connection cables.

All statements regarding safety of operation and technical data only apply when the unit is operated correctly according to its specifications. The safety of any system incorporating the equipment is the responsibility of the assembler of the system.

Inappropriate use of any LED product may result in permanent eye damage. To prevent injury, use this product in accordance with the International Standard "Photobiological Safety of Lamps & Lamp Systems" IEC 62471. This product falls under Risk Group RG0 - Exempt Group in accordance to the standard IEC 62471:2006.

If using this LED in a microscope application as a replacement for a mercury vapor lamp, the same precautions should be taken.

CAUTION!

TO ENSURE PROPER HEAT MANAGEMENT,
MOUNT THE METAL CORE PRINTED CIRCUIT
BOARD (MCPCB) TO AN ADEQUATE HEAT SINK

