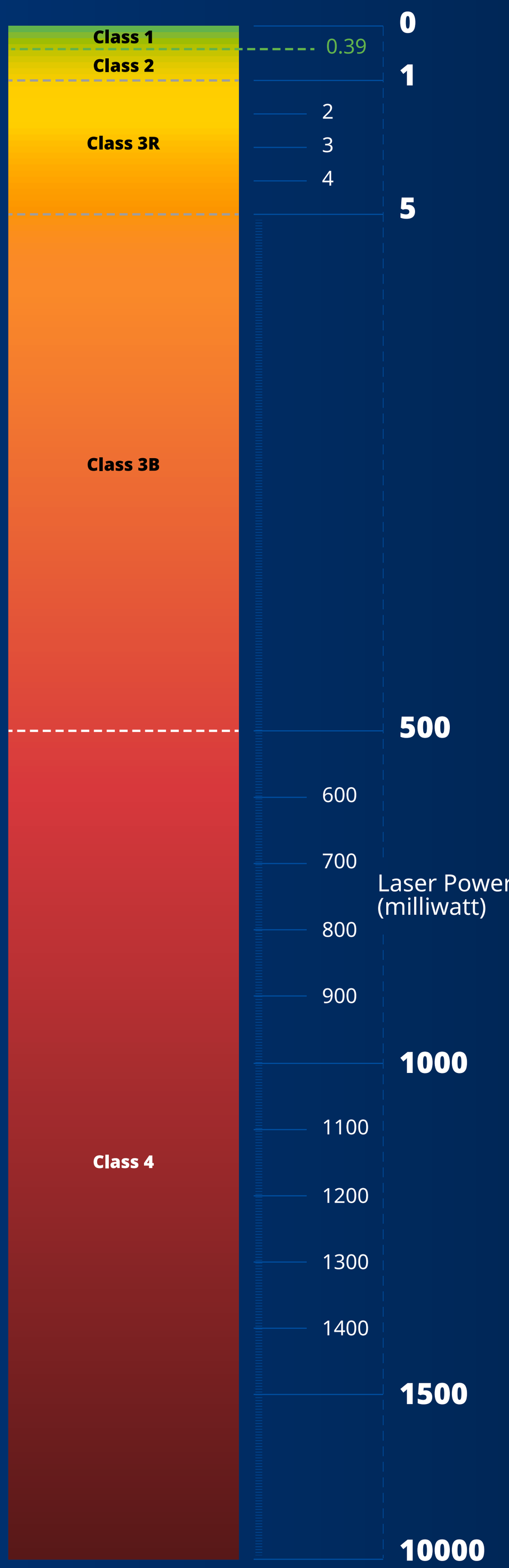
Laser Hazard Classes



Class 1: These lasers are considered safe under normal operating conditions.

Class 1M: This class includes lasers or laser systems that emit visible laser radiation that is safe under normal operating conditions. However, viewing the laser beam using an optical instrument may cause an eye injury.

Class 2 : These lasers are visible lasers that emit radiation in the visible spectrum (400-700 nm). They are considered safe for accidental exposure because the human blink reflex limits exposure time.

Class 2M: Similar to Class 2 lasers, these lasers emit visible radiation and are safe for accidental exposure. However, viewing the beam with magnifying optics may pose a hazard.

Class 3R: Considered safe under normal operating conditions but may pose a risk if viewed directly for extended periods. They can potentially cause injury to the eye if viewed directly, especially when using optical instruments.

Class 3B: These lasers can cause eye injuries if viewed directly. Protective eyewear is typically required when working with Class 3B lasers.

Class 4: High-power lasers that can cause severe eye injuries and skin burns. They present a significant hazard and require strict safety measures, including proper training, protective eyewear, and controlled access.

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