

Technical Information and Dimming Guide

120v Dimming Guide:

EmeryAllen offers two types of dimmable bulbs, “limited dimmable” and “fully dimming”. Fully dimmable bulbs are only available in 4.5w and 5.0w and have a tail code on the model number designated by a “D”. All 2.3w and 3.0w are limited in their dimming due to their size. The components required to make these bulbs fully dimmable do not physically fit into the 2.3w and 3.0w bulbs.

120v “Fully Dimmable” Bulb Dimmer Compatibility:

- Most LED compatible dimmers
- Incandescent or “Triac” dimmers
- Ceiling fan remote dimmers

120v “Limited Dimmable” Bulbs:

- These types of bulbs can only be dimmed with LED compatible dimmers (i.e. Luton C/L series dimmers).
- Do not use incandescent or “Triac” dimmers as they will quickly cause the bulbs to fail (even in the “Full On” position).
- Do not use these types of bulbs with ceiling fan remotes.

12v Dimming Guide:

EmeryAllen offers a line of low voltage LED bulbs which are dimmable with most magnetic transformers. MAGNETIC TRANSFORMERS do not have a minimum load requirement whereas ELECTRONIC TRANSFORMERS may have a minimum load requirement for them to function properly. Please be certain the minimum load rating on electronic transformers and dimmers are being met when using EmeryAllen 12v LED bulbs.

Consult manufacturer’s specification sheet(s) for minimum load requirements when installing LED bulbs with electronic transformers and dimmers. If the minimum load is not met, the bulb(s) will flash on/off. This may cause the bulbs will fail prematurely. Always be certain the proper dimmer is used while dimming 12v LED products. Electronic Low Voltage (ELV) dimmers are required for electronic transformers and Magnetic Low Voltage (MLV) dimmers are required for magnetic transformers. Please contact EmeryAllen if you have any questions about your dimming application.

HI/LO/OFF Switches:

A HI/LO/OFF switch is not an acceptable dimming device for any LED bulb. If you are installing an LED bulb on a fixture with a HI/LO/OFF switch, make sure the switch setting is only operated on the “HI” setting. The fixture can only be dimmed if it is hard wired into an LED comparable wall switch.

Night Light Switches:

Switches which incorporate a “night light” feature may cause the LED bulbs to glow when they are turned off. Some light switches run a small amount of current through the bulbs even while “off” to power small devices such as a timer, motion sensor or night light.

Motion Sensor Switches:

Motion Sensing or occupancy sensors must be LED compatible.



Damp Location & Enclosed Fixture