

## Model 40



Incandescent



18 Diode LED

### Amperage Draw – Stop/Turn/Tail Lights

Tail Light Mode – .5 Amps x 4\* = 2.0

Stop & Turn Mode – 2.1 Amps x 4\* = 8.4

.1 Amp x 4\* = .4

.25 Amps x 4\* = 1.0

**80% less**

**88% less**

\* Average truck has 4 lights @ rear

### Why are LEDs so much more efficient?

The reason for the amperage savings is incandescent light bulbs produce light as a by-product of heat. Only 5% of the input energy to incandescent light bulbs is produced as visible light. Thus they are not really light bulbs, they are heat bulbs. Through electronics, LEDs produce direct light with very little heat by-product. Almost 95% of the input energy to LEDs produces visible light.

Summary – Using LEDs saves approximately 80% of amperage draw vs. incandescents, reserving this power for other systems and putting less demand on the charging system. Considering most tractor/trailers have almost 40 lights, that's a lot of power savings if they use primarily LEDs!