### EnabLED Licensing Program for LED Luminaires and Retrofit Bulbs

## Update: New technologies added





# Refresh 50+

New Innovations from basic LED controls to product-level technologies





#### LED glare reduction

Application: Where comfortable LED light output is required



#### Asymmetric LED light output

Application: Asymmetrical, directed LED light applications



#### Filament based LED products

Application: Using LEDs and filament forms to generate light

New technologies examples



#### \$10M L Prize winning technology

Application: LED lamps with omnidirectional light and award winning reliability



#### Uniform mixed LED colors output

Application: Multi color or tunable white LED



#### Warm dimming incandescent emulation

Application: Using LEDs to emulate warm dimming features of incandescent bulbs



## LED-based Lamp for Replacing TL Fluorescent Lamp with safety features

Application: general illumination and specialty applications



#### Connected LED lighting technology

Application: System of networked LED lighting products with Radio Frequency (RF) connectivity

## Additional patents



Inventions from

250+ - 400+



Granted from

**1650+ → 2600+** 



Pending from

200+ → 500+