

1  
towards a  
circular  
economy

LEDs are totally different from HPS street lights



HPS luminaires  
(High Pressure Sodium) use  
a **single bulb**

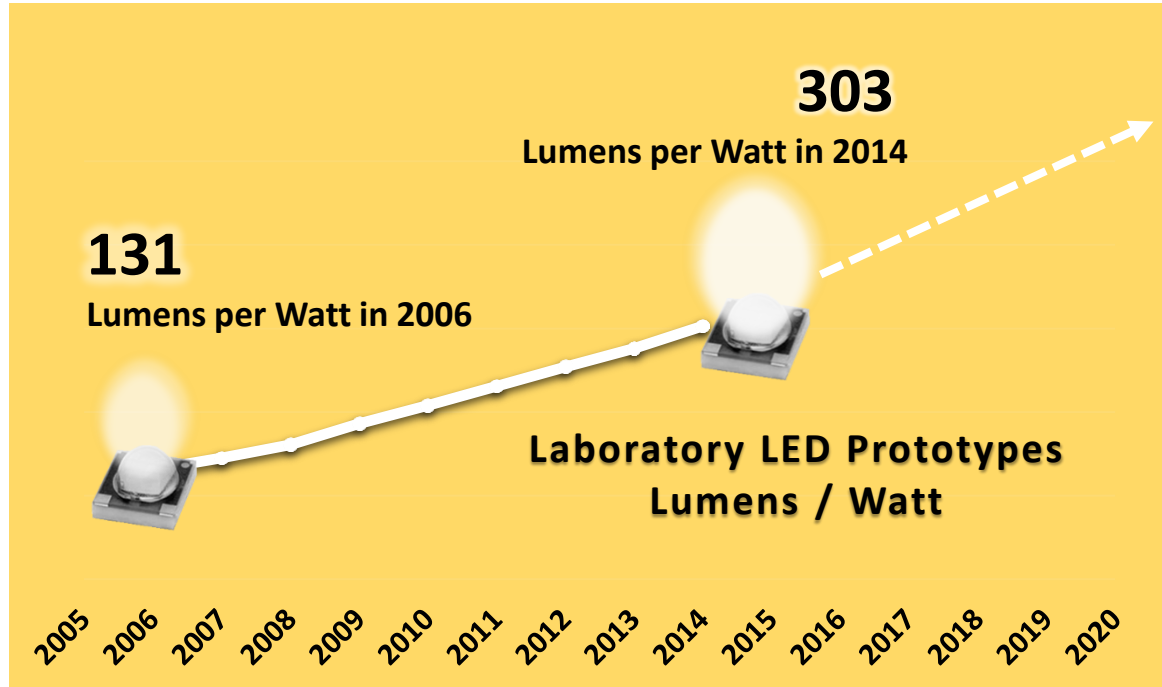


LED luminaires use an **array of  
light emitters**



circular economy towards a **2**

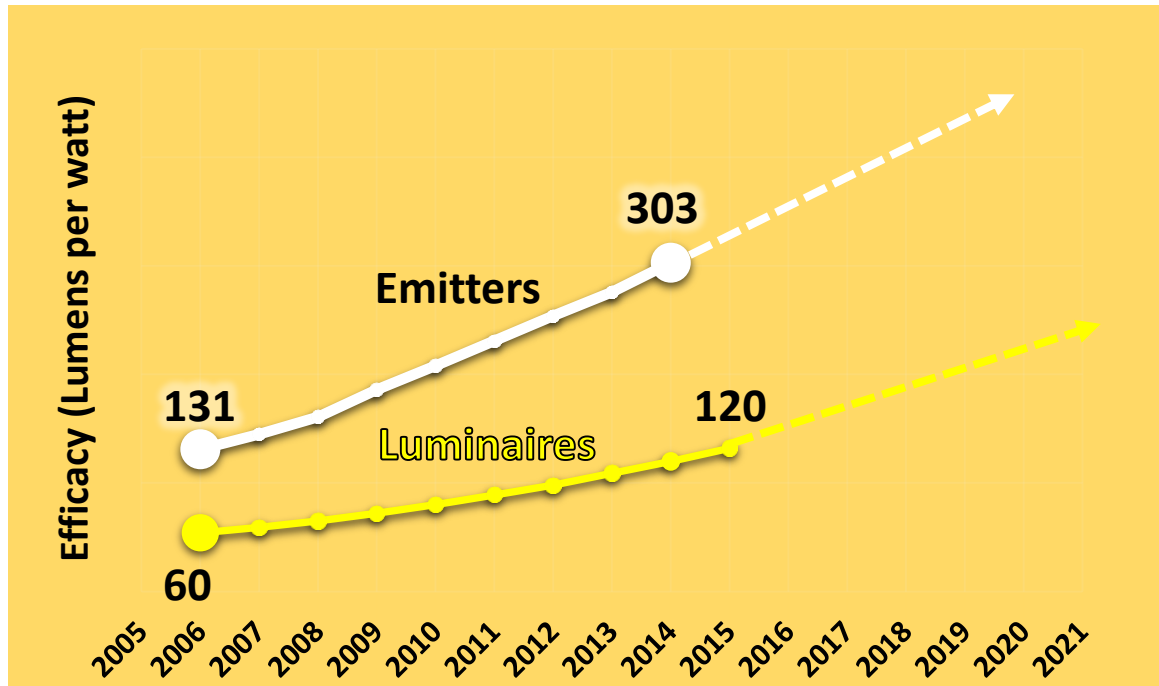
LED Emitter Performance is Improving Year by Year



Source data: March 26, 2014 CREE First to Break 300 Lumens-Per-Watt Barrier (CREE is a leading US based LED developer and manufacturer)

circular economy towards a **3**

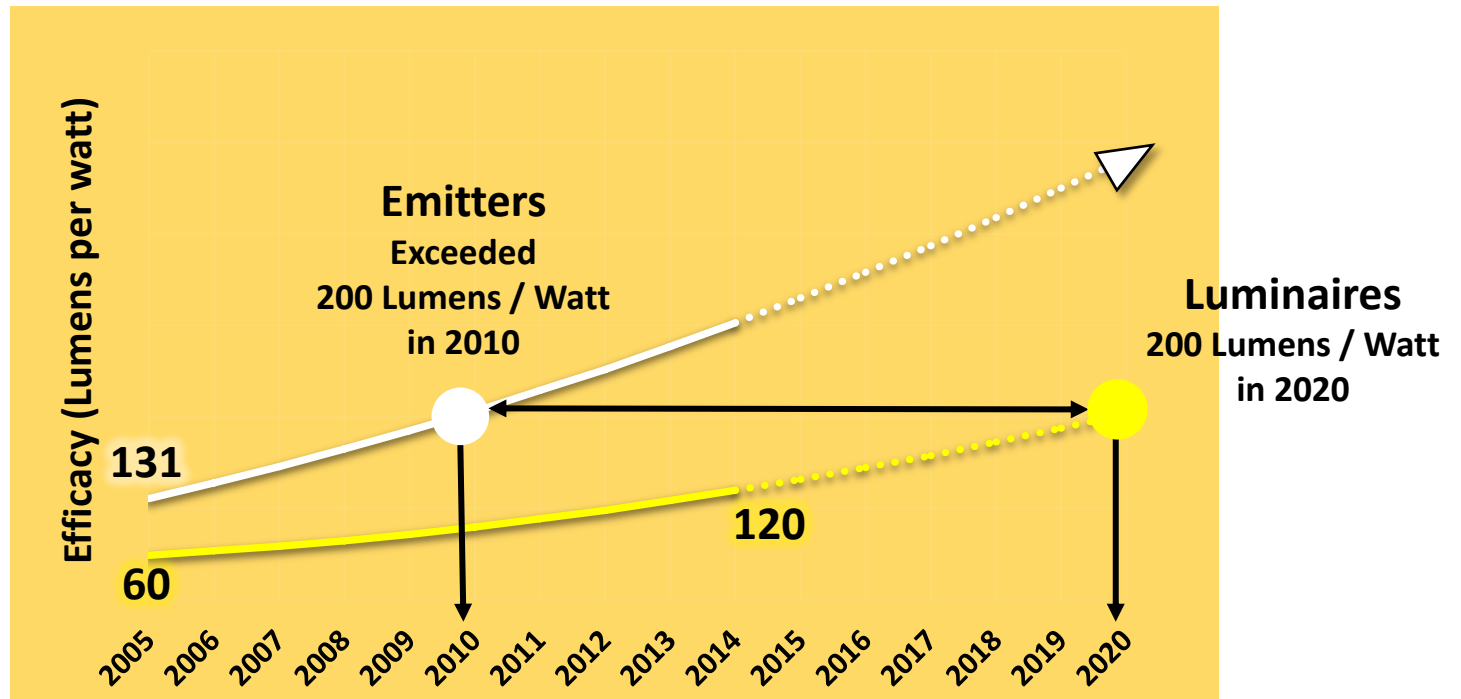
Today's Best Luminaires are 10 Years Behind the Best Emitters



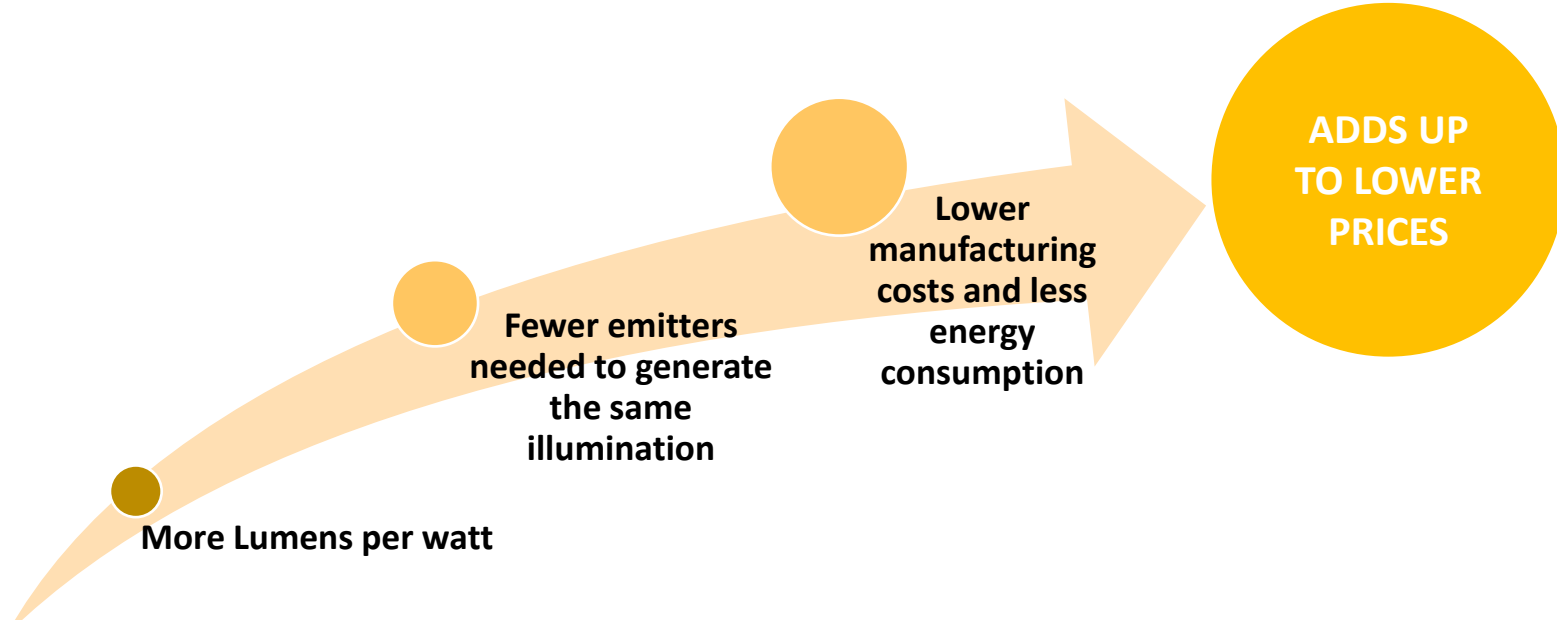
Source data: LED luminaire data from Street Light Program archives

4  
Circular economy towards a

By 2020 LED Luminaires could easily Exceed 200 Lumens / Watt



economy towards a  
**5**  
circular



By 2020 Prices of Luminaires Drop by 40 – 50%