

Luminaire Performance Metrics

- Light output measured as lumens (lm)
 - The higher the number, the more light is emitted
- Measured input power (watts (W))
 - The higher the number, the less energy used
- Luminaire efficacy (lumens per watt (lpw))
 - The higher the number, the more efficient the product
- Correlated color temperature (CCT) sometimes simply referred to as color temperature is measures in degrees Kelvin (K)
 - “Cool” colors have higher color temperatures (3600-5500K)
 - “Warm” colors have lower color temperatures (2700-3500K)
 - A full moon has a color temperature of about 4150 K
 - **A high pressure sodium street light has a color temperature of about 2000 K**
- Color rendering index (CRI)
 - The higher the CRI, the more accurate the color of illuminated objects appear under the luminaire
 - Natural sunlight = 100 CRI
 - LED light source = 70 – 75 CRI
 - High pressure sodium light source < 25 CRI

