



# LED versus HID Light Sources

A Visual Comparison



This information is part of the the AIA CES Course:

*Outdoor Lighting-LED versus HID and Human Vision*

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# Understanding LED vs. HID

- This presentation will provide you with a visual comparison of LED light sources versus HID (High Pressure Sodium)
  - Three LED color temperatures
  - See how combinations of distribution and color temperature effect visual acuity

## 100-watt High Pressure Sodium Lamp Source

- 10-foot mounting height
- 2100K color temperature
- 21 CRI
- 24,000 hour lamp life
- 9500 Initial Lamp lumens
- 130 System watts
- 66 Lumens per watt



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## 46-watt LED Light Engine, 3500K

- 10-foot mounting height
- 3500K color temperature
- >80 CRI
- > 60,000 hours lamp life
- 3910 Lamp lumens - 41% of 100w HPS
- 46 System watts (400mA) - 35% of 100w HPS
- 85 Lumens per watt



## 46-watt LED Light Engine, 4000K

- 10-foot mounting height
- 4000K color temperature
- >80 CRI
- >60,000 hours lamp life
- 5014 Lamp lumens - 53% of 100w HPS
- 46 System watts (400mA) - 35% of 100w HPS
- 109 Lumens per watt



## 46-watt LED Light Engine, 5000K

- 10-foot mounting height
- 5000K color temperature
- >80 CRI
- >60,000 hours lamp life
- 5290 Lamp lumens - 56% of 100w HPS
- 46 System watts (400mA) - 35% of 100w HPS
- 115 Lumens per watt



# Comparison

100-watt HPS - 9500 Initial Lamp Lumens



46-watt 3500K - 3910 Lamp Lumens



46-watt 4000K - 5014 Lamp Lumens



46-watt 5000K - 5290 Lamp Lumens







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