designing with LED

PURDUE ROAD SCHOOL – MARCH 2018
Longer Lasting/ Lower Maintenance

No ballasts to replace
Expect 20 years
Not all created equally*

White Light vs Yellow Light

Better visibility/peripheral vision
More represents daylight

Numerous Possibilities

Tilt
Symmetric/Assymmetric
Different Lumen packages
**EARLY LED**

- Used much less energy
- > produced less light
- Not good distributions
- No High Mast Options
- Much more expensive than HPS

**CURRENT**

- Use slightly more energy
- > better light output
- Better coverage
- High Mast Options
- Price is evening out

**Improvement in Technology . Good for ALL applications**
IES RP-8-14 updates

- Luminaire Classification System (LCS/BUG Ratings)
- Luminance vs Illuminance
- Increased Pedestrian Guidance
- Veiling Luminance
- Adaptive Lighting
luminaire classification system

BUG Ratings
LED
unique design challenges

- Glare
  - Case Study
- LLF and Design Life
- Multiple Options
  - Requires more coordination
- Utility Rates
  - Metered services points
LED unique lighting benefits

- Dimming
- Adaptive/Controls
- Color Control
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