LED Street & Park Lighting Conversion

City Manager's Announcements
October 27, 2016

City of Tempe
PUBLIC WORKS

LED Program

Evolution of Technology	• High Pressure Sodium (HPS) • Induction • LED
Asset Management	• Condition of assets • Evaluate options • Consider return on investment
Environmental Stewardship	• Reduce carbon footprint • Council energy reduction goal • 100,000 hour lasting fixtures
Good Government	• Initiated pilot program • Held public meetings to gather input • Sensitive to varying locations in city; 1 size does not fit all
Implementation Plan	• Phase 1- Residential (4000 HPS lights to LED over 4 years) • Phase 1 - Parks (900 HPS lights to LED over 9 years) • Phase 2 - Arterials (5500 HPS lights to LED)

Key Considerations

- Light Quality
- Energy Use
- Maintenance
- Impact on public safety
- Costs

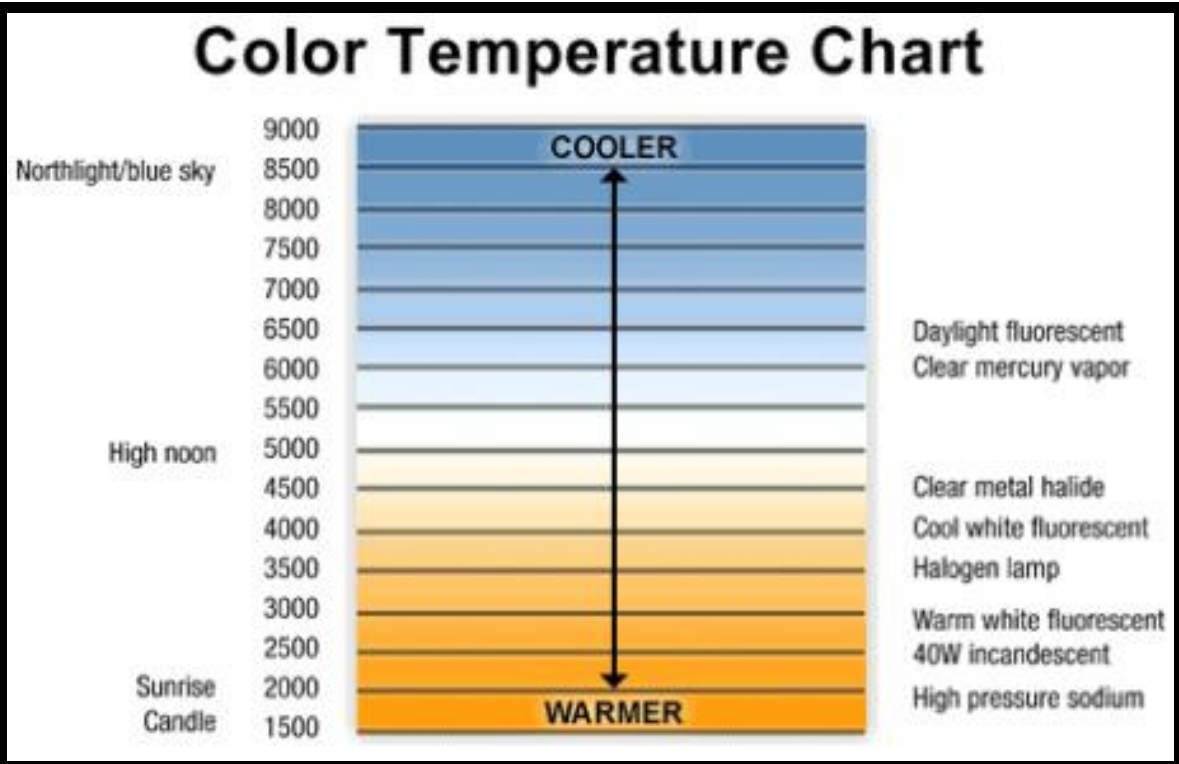
Three Distinct Color Temperatures

- Existing 2200 Kelvin HPS

- 3000 Kelvin

- 4000 Kelvin

LED Color Temperature Facts



3000 Kelvin Temperature

- Decreased blue light wavelength
- Warmer color temperature closer to HPS
- Recommended by the International Dark Sky Association

Staff Recommendation and next steps

- Install 3000K in residential areas over 4 year period
- Test 3000K & 4000K lights in the parks
- Evaluate return on investment for arterial roadways