



Northeast Energy Efficiency Partnerships

Ish Bulb Part 2: And This Time It's Personal.

2016 Northeast Residential Lighting
Workshop

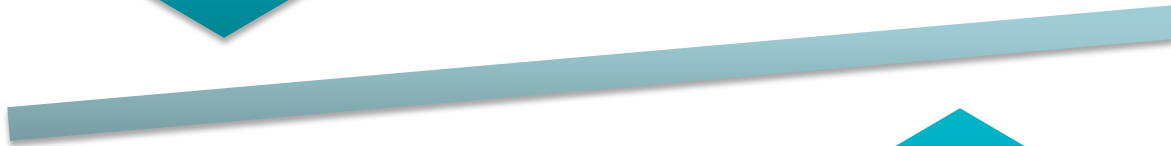
Tuesday, September 20th

10:15am-11:15am

2015 Was a Year of Balancing



Cost



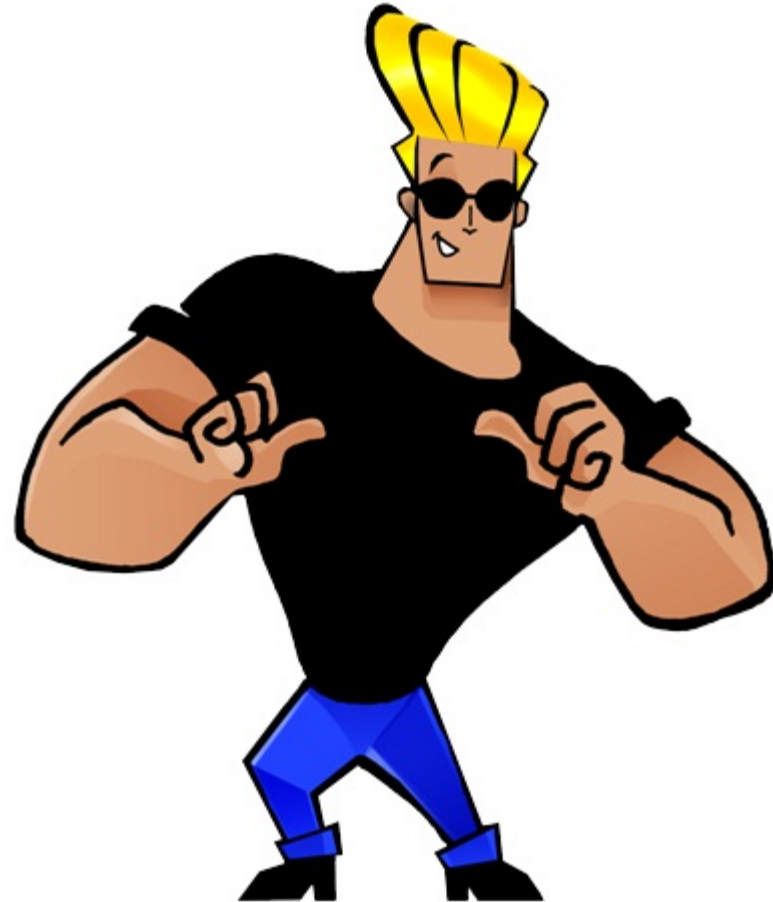
Quality



The Future of Ish?



2015



2016 and beyond
(hopefully)

Speakers

- Taylor Janz-Sell
 - US EPA, ENERGY STAR Program
- Kiersten von Trapp
 - NMR Group
- Stan Mertz
 - CLEAResult



ENERGY STAR Lamps 2.0 Update

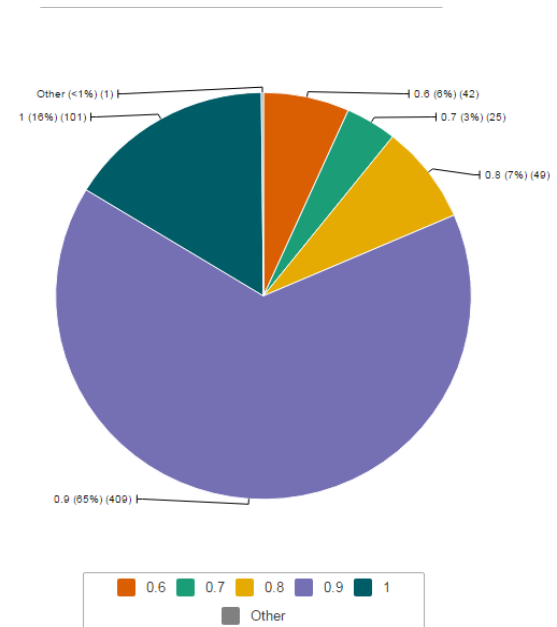
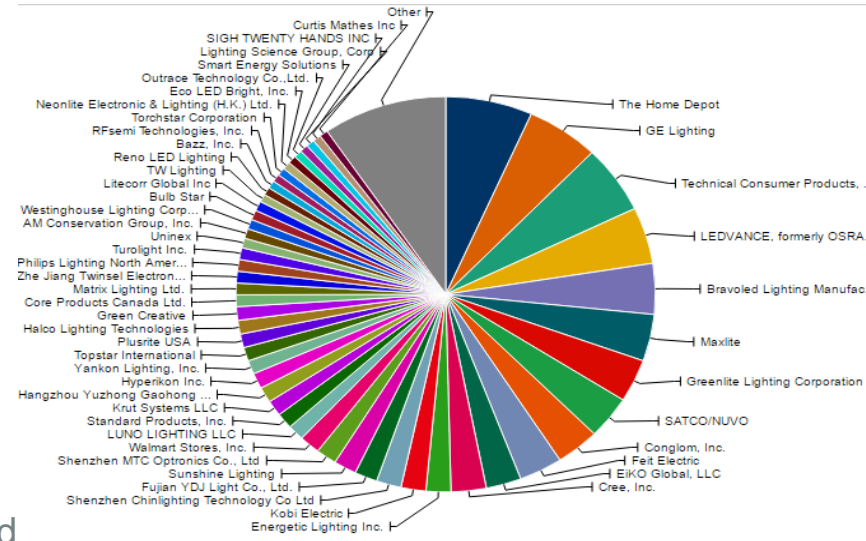
Taylor Jantz-Sell





ENERGY STAR Lamps Version 2.0

- Final December 31, 2015 **OPEN FOR BUSINESS** Effective Jan 2017
- More than **2000** lamps have been certified to Version 2.0!
 - **630+ Omnidirectional**
- Increased efficacy levels for all lamp types.
- **Expanded scope:** connected lamps, color tunable lamps, and self-ballasted induction-driven electrodeless lamps.
- Improved alignment with the Luminaires V2.0 specification.
- Allows for use of DOE test procedures
- Standby limits for connected lamps
- Careful and slight adjustments to omnidirectional lamp criteria to allow for cost reductions while maintaining high levels of quality: omnidirectionality, power factor, lifetime
- **Learn more at energystar.gov/lamps.** Check out the [list](#).



MA Lighting Market Assessment

Kiersten von Trapp



MA Lighting Market Assessment

Study Sponsors:

- The Massachusetts Energy Efficiency Advisory Council
- The Massachusetts Electric Program

Administrators:

- Cape Lighting Compact
- Eversource Energy
- National Grid
- Unitil

BACKGROUND

A Rich Dataset

16

Years of market indicator data

2,153

On-site lighting inventories between 2009 and 2016 across MA and NY

1,435

Massachusetts on-site inventories

718

New York on-site inventories

3

Waves of panel visits in MA

Panel Study

Started in 2013
3 Waves in MA
1 Wave in NY

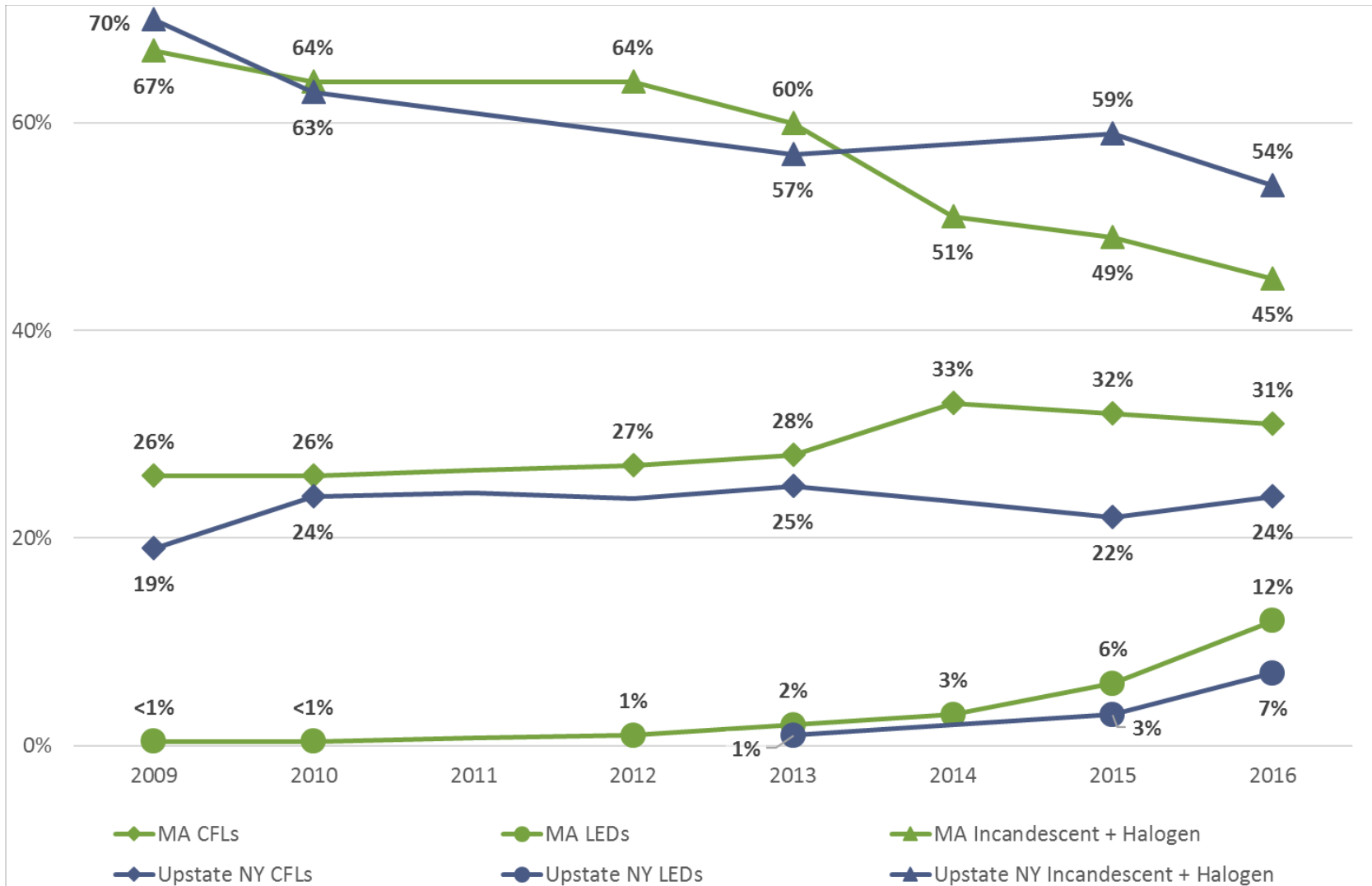
Revisit homes to observe changes

More information:

<http://tinyurl.com/LightingPanel>

<http://tinyurl.com/MALighting2015-16>

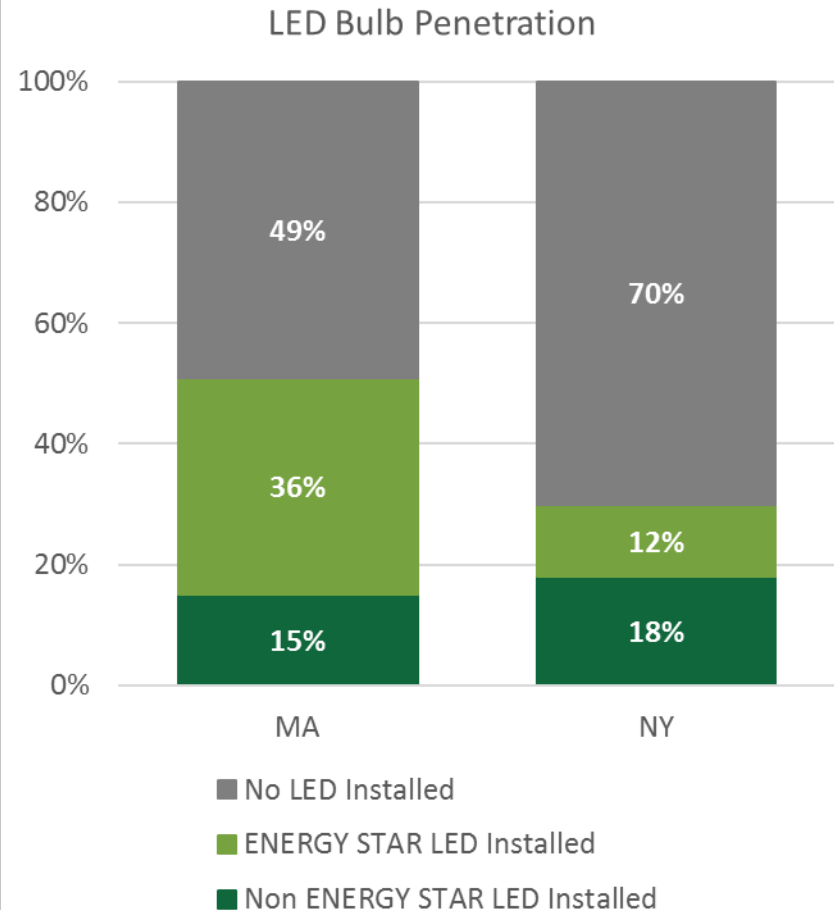
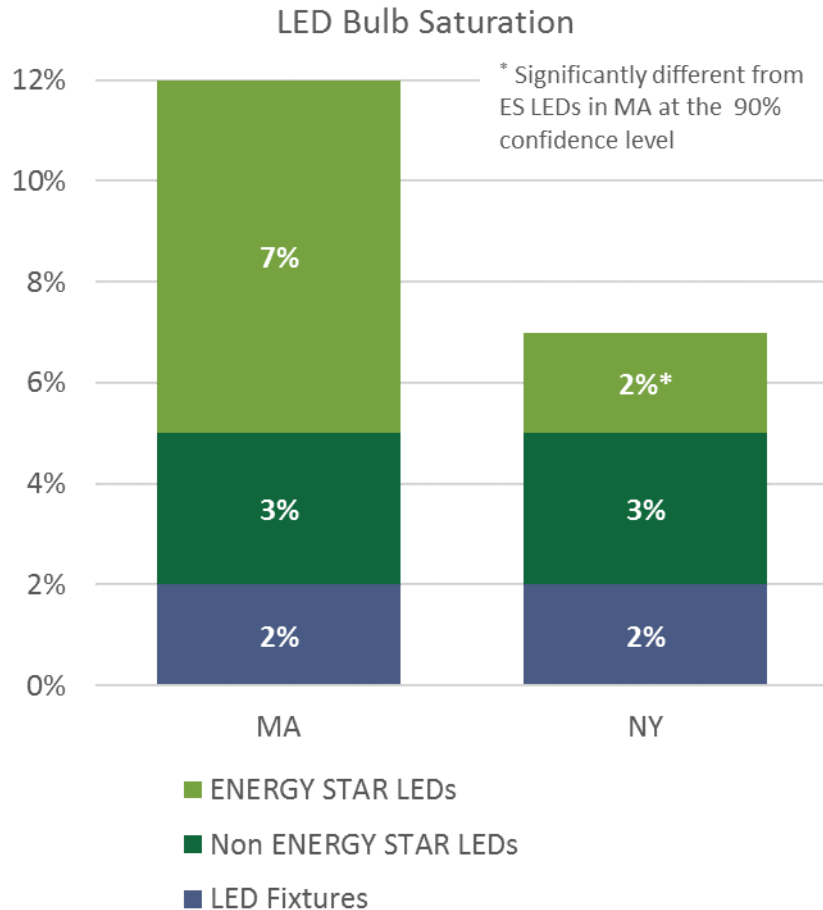
Why New York?



Methodology

- Massachusetts n = 420
 - 150 new visits
 - 270 panel visits
 - Upstate New York n = 150
 - 70 new visits
 - 80 panel visits
- LED model numbers
 - ENERGY STAR[®]-qualified list
 - Separated LED saturation into:
 - ENERGY STAR qualified
 - Non-ENERGY STAR qualified
 - Integrated LED fixtures

MA & NY LED Bulb Saturation and Penetration 2016 with ENERGY STAR LEDs



Bulb Type Familiarity

Familiarity of bulb type	MA	NY
<i>Sample size</i>	478	398
LED Familiarity	57%	57%
CFL Familiarity	78%	79%
Halogen Familiarity	57%	66%*

- Similar levels of LED and CFL familiarity
- Increased familiarity with halogen among NY households

NMR Lighting Reports & Presentations

- **2015-2016 Lighting Market Assessment Consumer Survey and On-site Saturation Study**
- **IEPEC 2015:**
 - A Lighting Study to Stand the Test of Time: Exploring the Results of a Residential Lighting Study Designed to Produce Lasting Data
 - We Know What You Did Last Summer: Revelations of a Multi-Year Lighting Panel Study
- **ACEEE 2016:**
 - Back to the Future: Why Lighting Programs May Have Never Been More Important

Mad Max New England

The Post V2.0 world as it exists

Stan Mertz

Value Line as a bridge



June 2015 – Construction began on the “ish Bridge” that would allow programs to claim savings on low cost LEDs outside of ENERGY STAR

Bridges being considered across the country



After ENERGY STAR V2.0 was released



January 2016 after the earthshaking release of V2.0

Stanley Mertz

Director of Retail Strategies

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We change the way people use energy™

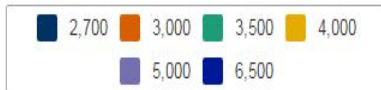
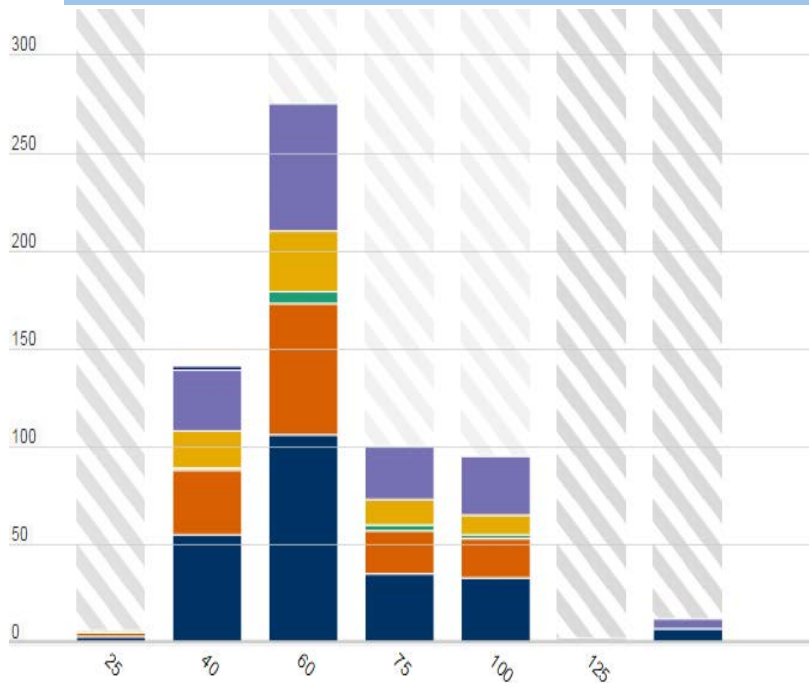
So What Happened...

- ...to ENERGY STAR 2.0 Uptake?

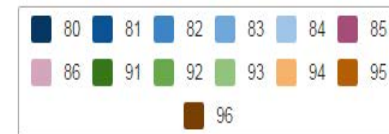
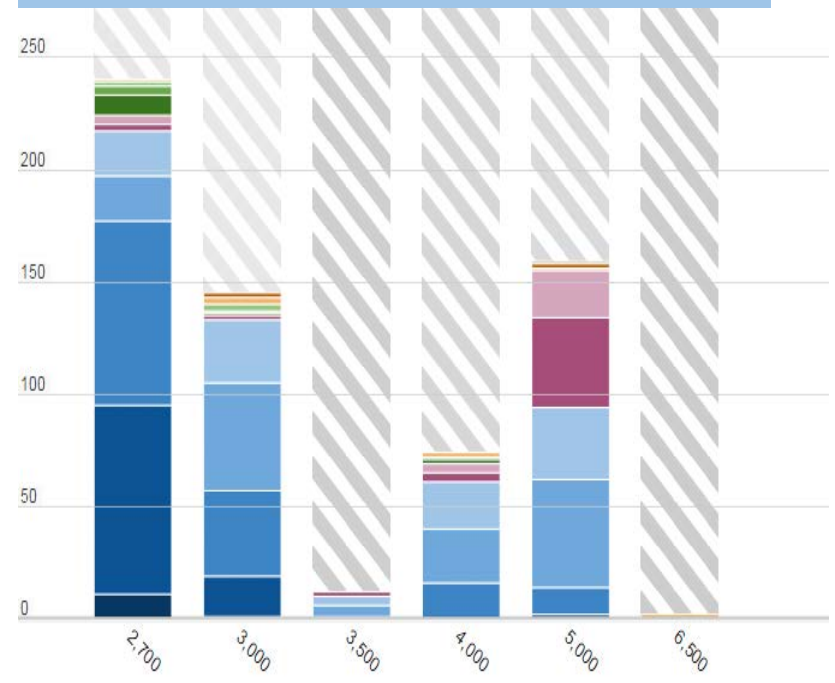


ENERGY STAR Lamps Version 2.0: Click link for updated tables

Wattage equivalency & CCT



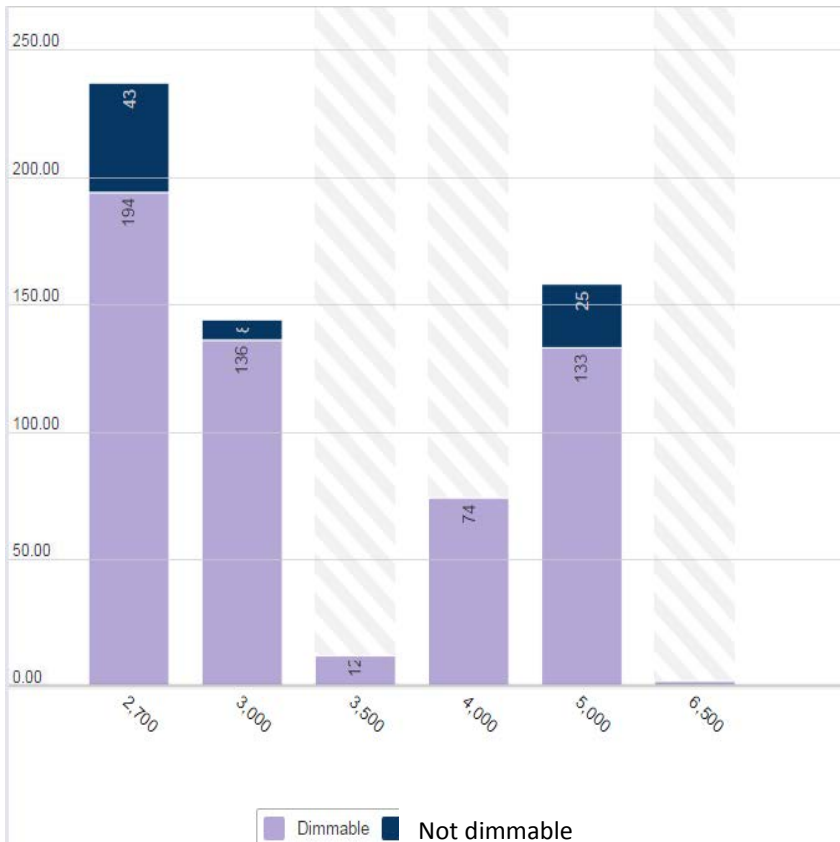
CCT and CRI



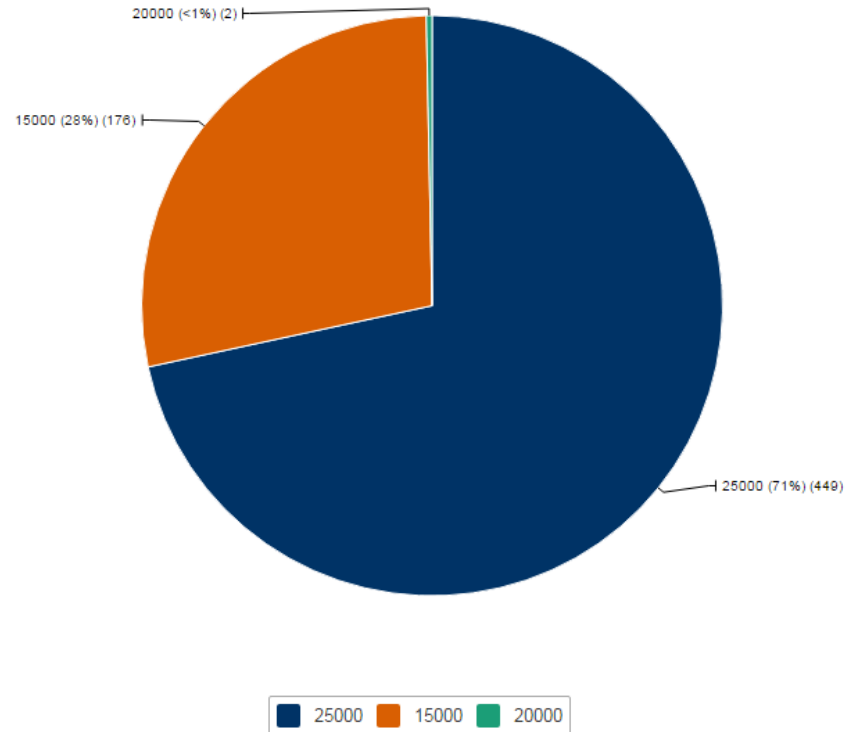


ENERGY STAR Lamps 2.0 Update Sept 2016

Dimmable A Lamps 87%



Lifetime



Discussion

- What future do ish bulbs have
 - In programs?
 - For manufacturers?
 - On retail shelves?
- What impact may ish bulbs have on 2015/2016 evaluations?
- What impact do these bulbs have on the transforming market?

