Lamps V2.0 Pre Draft 4 Discussion

October 22, 2015
1-2pm EST

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Today's Agenda

- Introduction
- Goals
- Specification Development Process
- Draft 3 Comments
- Market developments

Welcome

- Introductions
  - In-person
- Questions/comments welcome
  - For everyone's benefit, please state name before commenting
  - Can ask questions via the webinar chat at any time

Goals of the Specification Revision

- Increase efficacy levels
- Broaden the scope and features
- Provide for use of DOE's pending LED lamp test method
- Improve harmonization between ENERGY STAR lighting specifications

- *Intended to avoid the need for partners to retest*
- *Capture improvement in LED lamps*

Specification Development Process Overview

- Draft 1
  - Draft 1 released February 13, 2015
- Draft 2
  - Released April 10, 2015
- Draft 3
  - Released August 6, 2015
- Final Specification
  - **Estimated** completion January 2016
- Effective date
  - **Estimated** January 2017

Draft 3 Comments

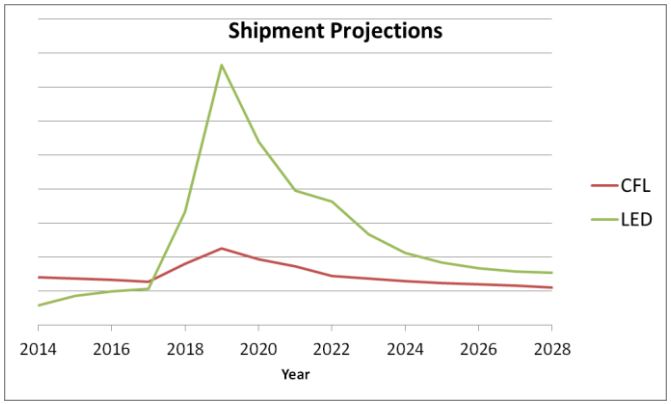
- Providing warranty information via a URL
- TM-30 metrics
- 2200K and 2500K – Decorative only? Nomenclature?
- Request to revise start time test method – considerations for connected products
- Other lamp shapes and bases: wedge, GY6.35, PAR36/AR111 – What is the market for these products?

California Energy Commission Comments

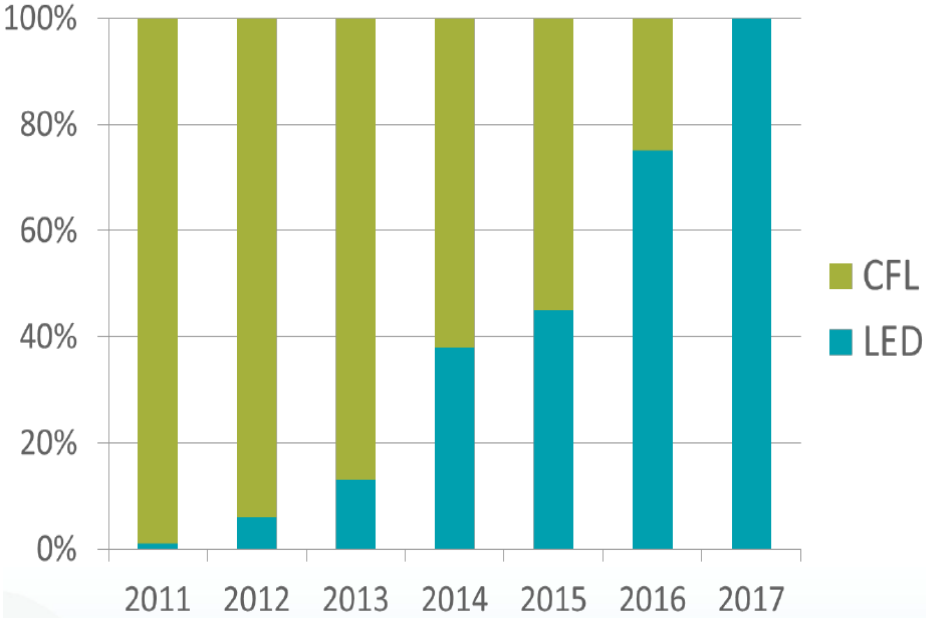
Ken Rider

CFL and LED sales mix in the Northwest in 2014

MSB Omnidirectional shipment Projections in CA



Connecticut's Retail Lighting Mix



North East Portfolios

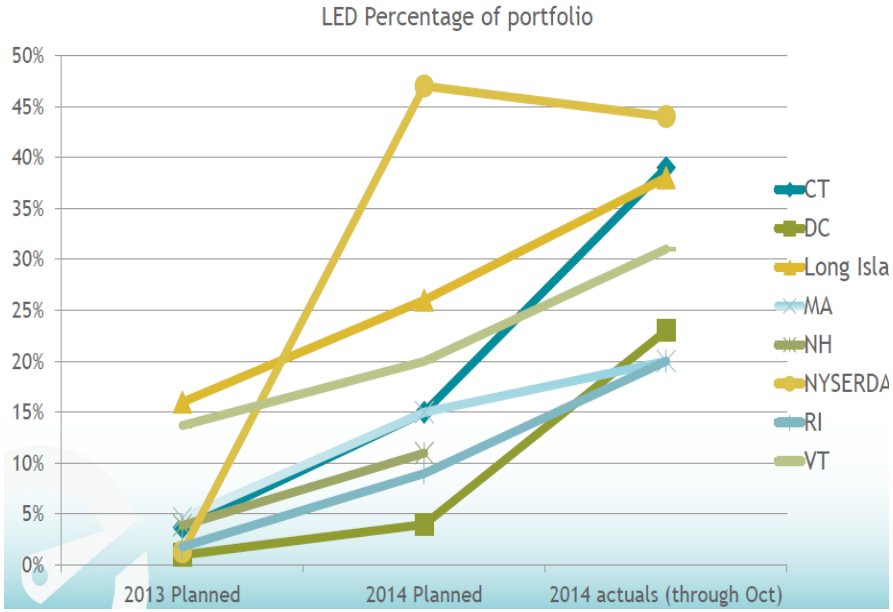
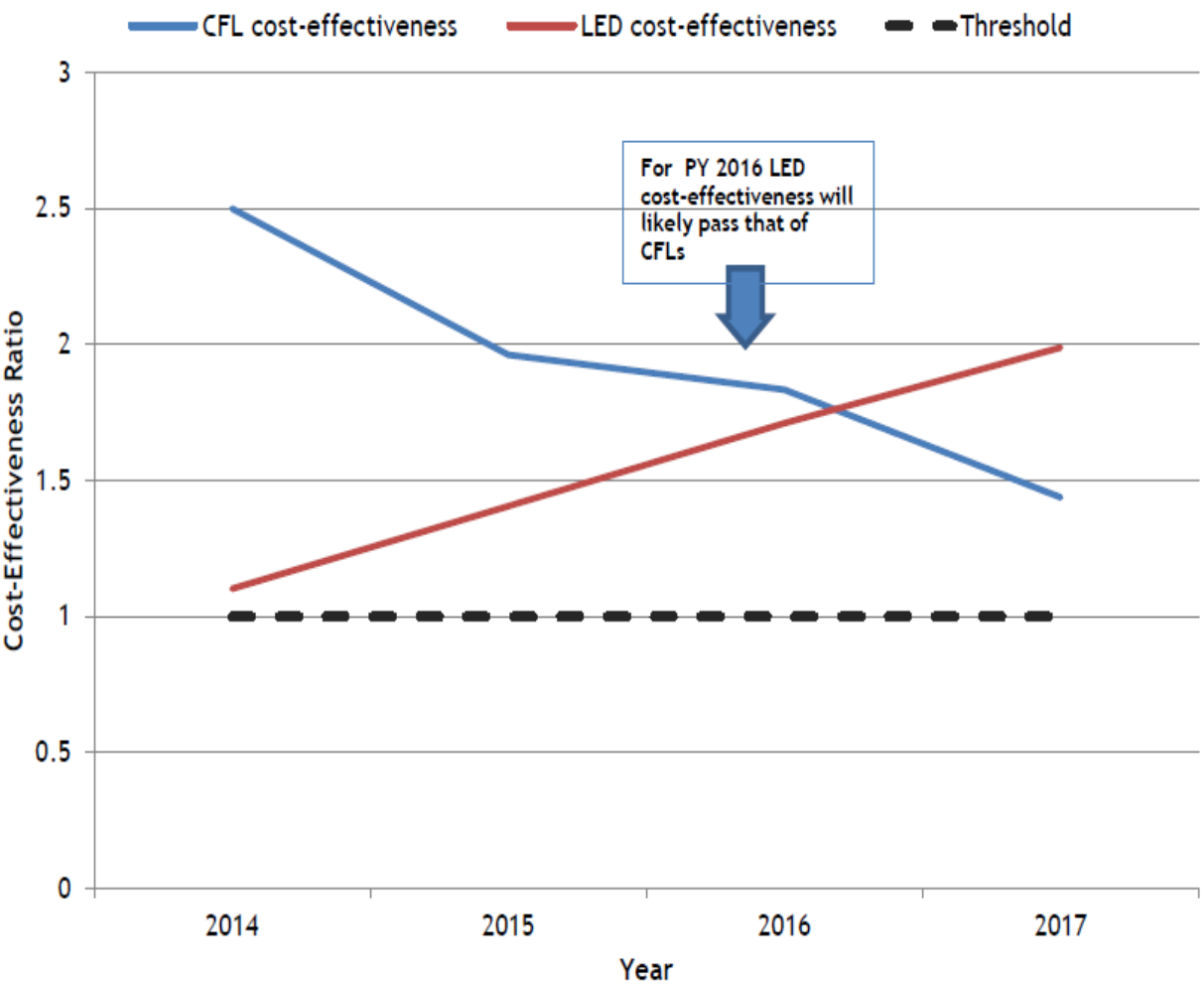
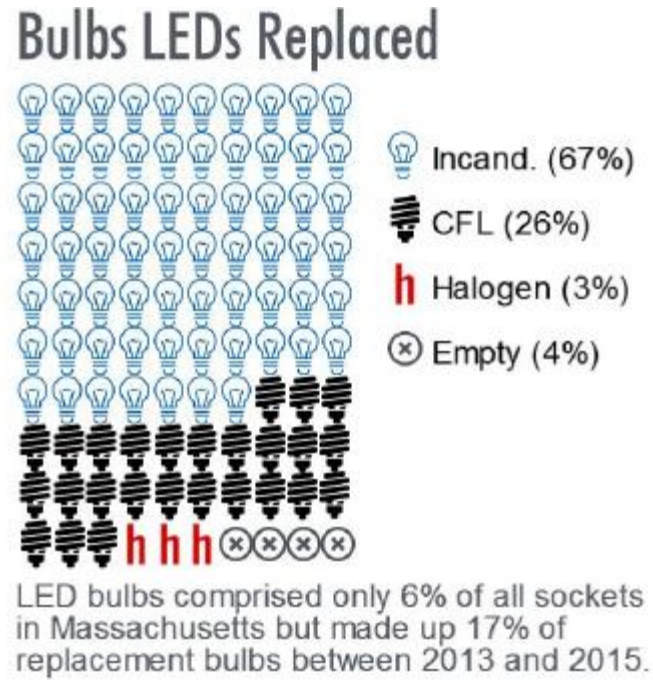


Figure 11: LED and CFL Cost-Effectiveness Modeling through 2017



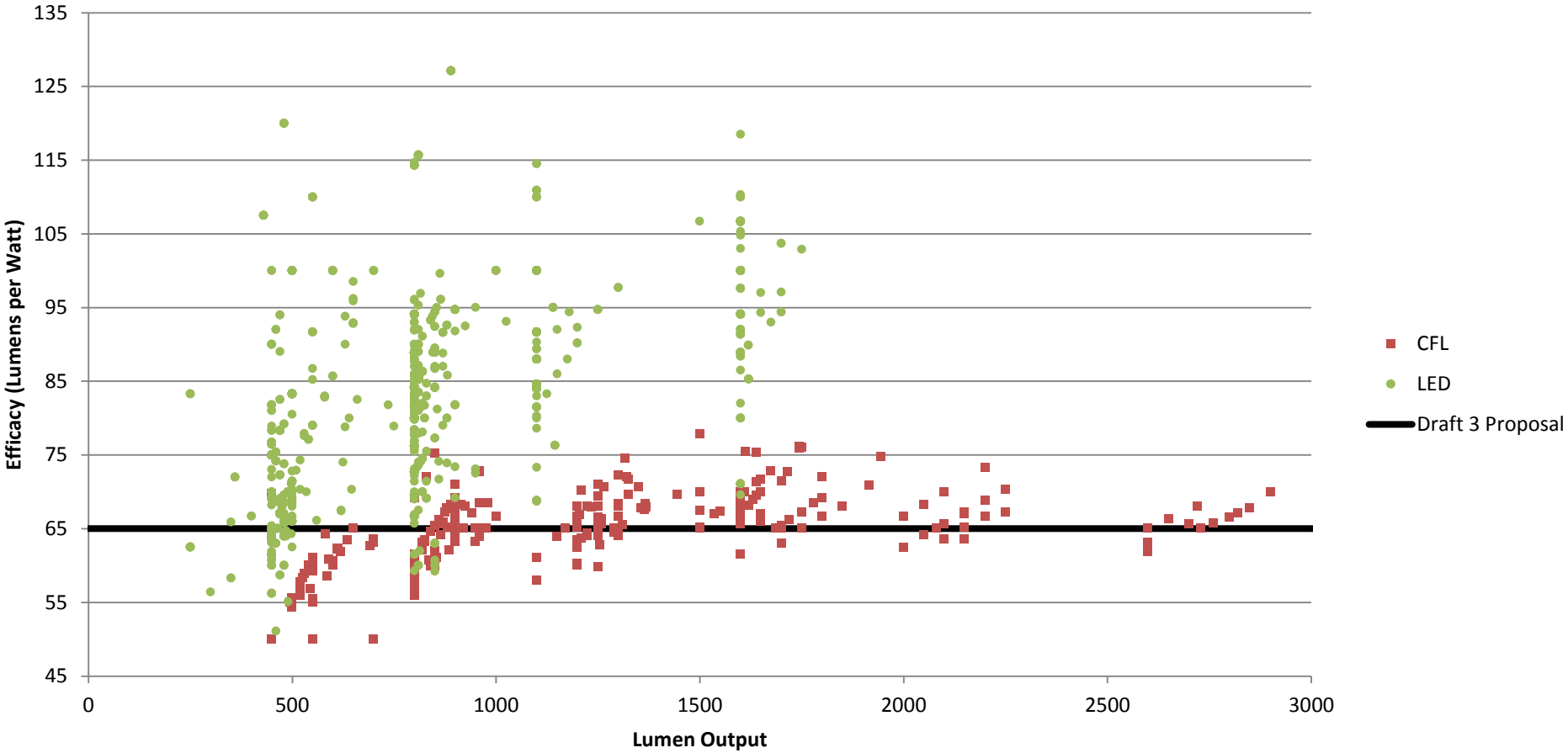
Source: Northeast Residential Lighting Strategy: 2014-2015 Update, December 2014

- A significant number of LED replace CFLs



Source: Massachusetts Residential Lighting Market Assessment.

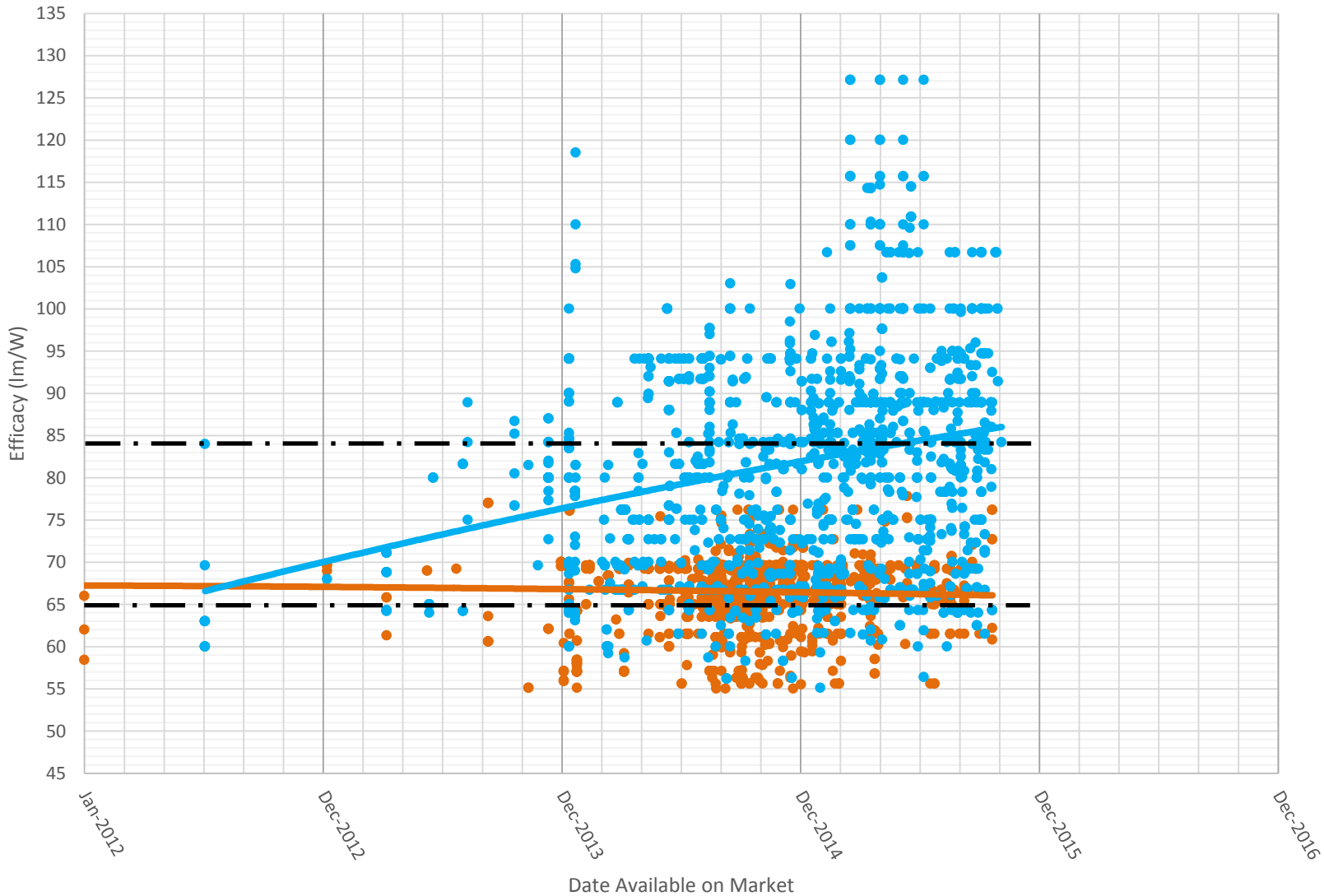
ENERGY STAR Omnidirectional General Purpose Replacement Lamps



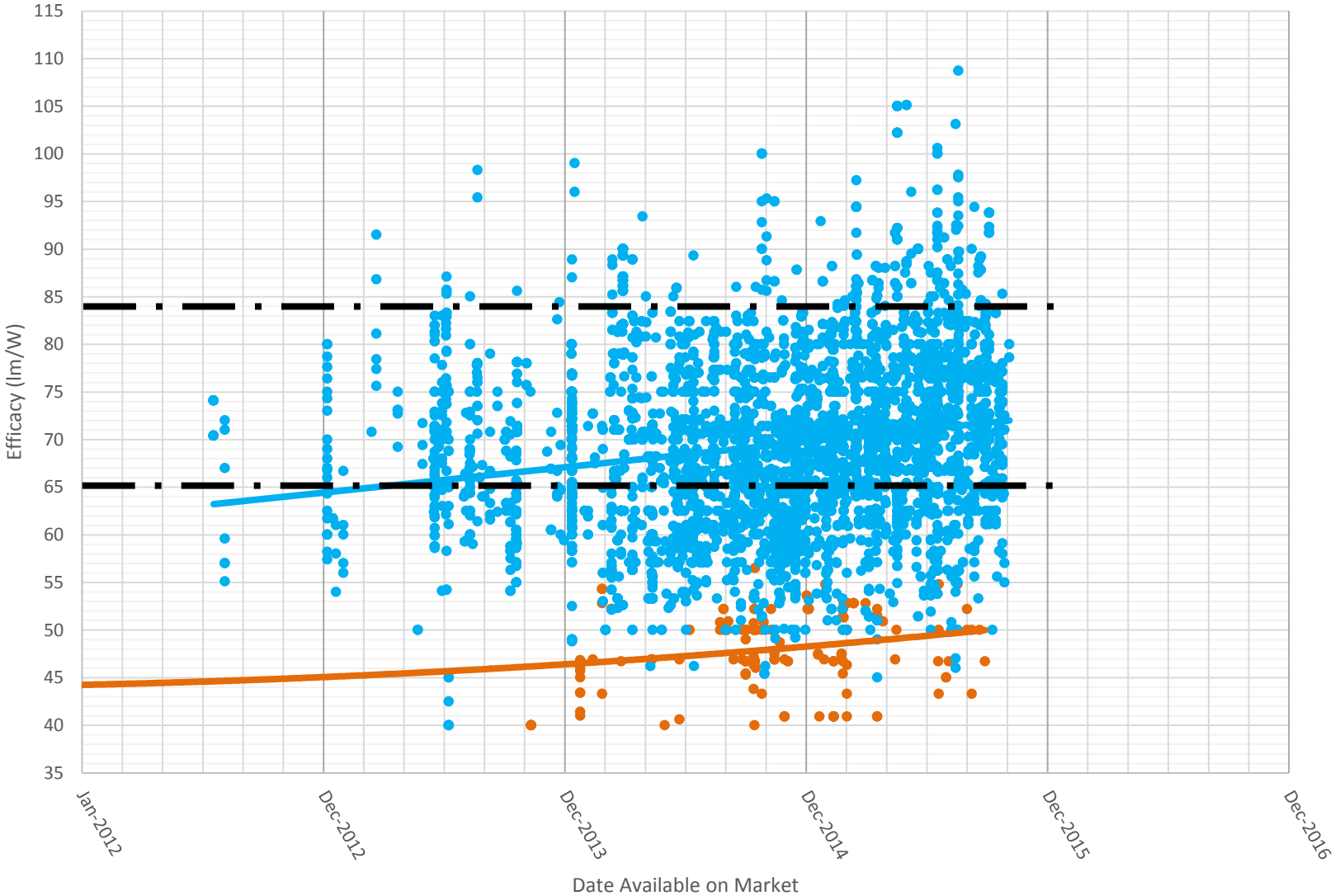
Current proposal is:

- Below average efficacy for CFLs even when considering non-ENERGY STAR CFLs (with the exception of 40 watt replacements)
- Well below average efficacy for LED lamps.
- Set at the same level as version 1.1 for higher wattage lamps

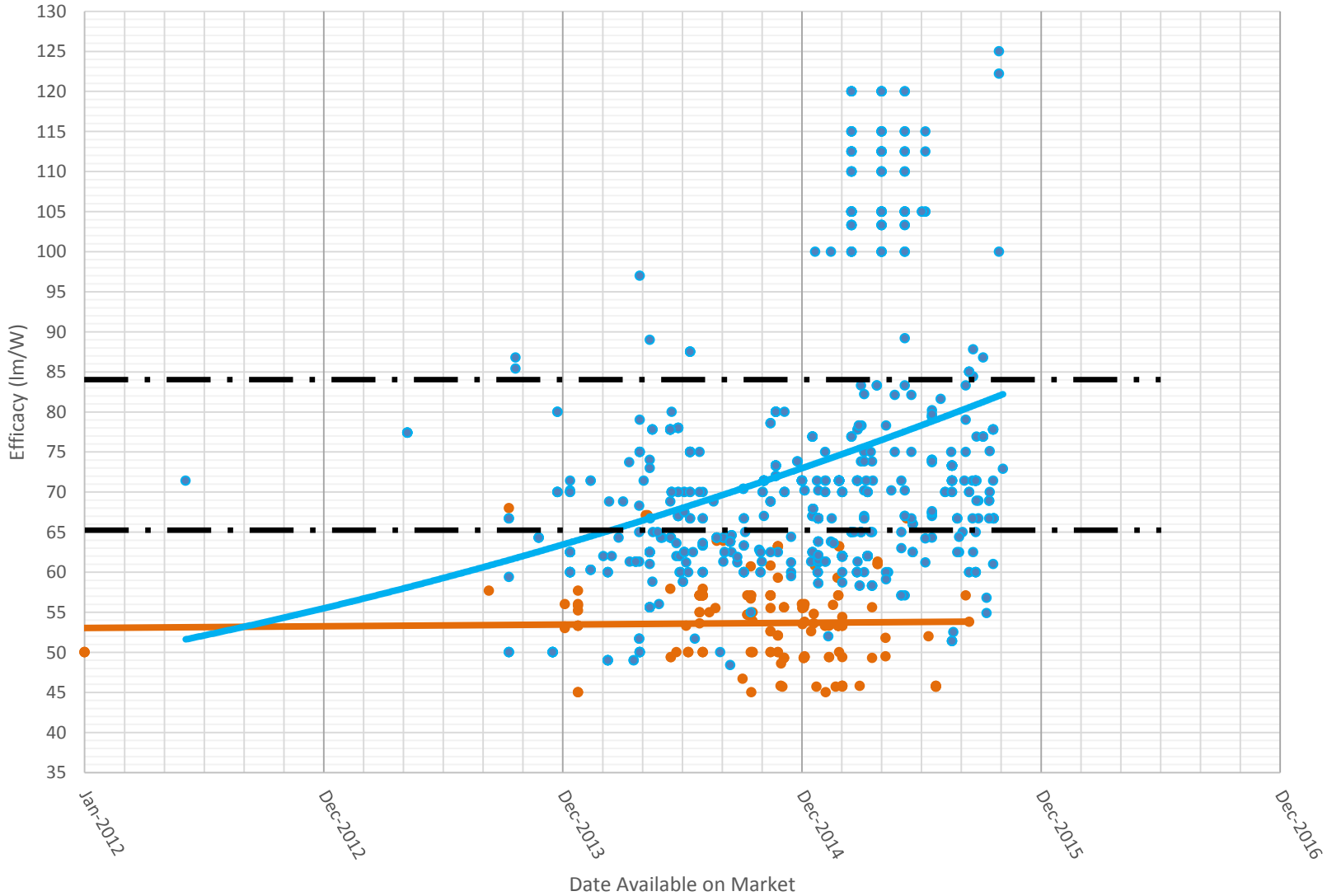
Efficacy Over Time: Omnidirectional



Efficacy Over Time: Directional



Efficacy Over Time: Decorative



Northeast Energy Efficiency Partnerships

Claire Miziolek

Outcomes from the Oct 1 2015 Northeast Residential Lighting Workshop

Biggest opportunities and barriers to transforming the Res Lighting Market:

- The high cost of efficient technologies. (LED technology is great was a major opportunity)
- Consumer education/awareness (a major barrier and a major opportunity)

Biggest metrics of priority:

People are very split on what they think is most important for the value bulbs, but in general people are most worried about (in order):

- Omnidirectionality
- Efficacy
- Dimming (which isn't a requirement for all LEDs in the current spec, I think people forget that)
- Lifetime
- Color rendering

- Not as concerned about Power Factor or Instant Start up

Next Steps: Specification Development Process Overview

Draft 4 Preparation

Data collection, research

October 2015

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Draft 4 Release
November 2015

→

Draft 4 Comments due
Nov/Dec, 2015

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Final Draft Expected
Dec 2015

→

Anticipated Final Specification Release
Jan 2016

→

Effective Date
January 2017

Discussion Time

- Questions?

- Send comments and questions after the meeting to:

  lighting@energystar.gov