

Spotlight on Safety: Terminal Illumination



ISP78 Meeting

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Market Manager-Europe



The LED lighting revolution _____

History

- Founded in 1892 by George Wordingham
- Family owned Company: Wordingham and Fredrick families
- HQ: Milwaukee, Wisconsin (Home of Harley Davidson!)
- More than 120 employees

Lighting Experience

- 1950's: Above Ground Mining
- 1970's: Marine Vessels
- 1980's: Container Handling Equipment
- 2015 : Phoenix Terminal Solutions



Color Temperature



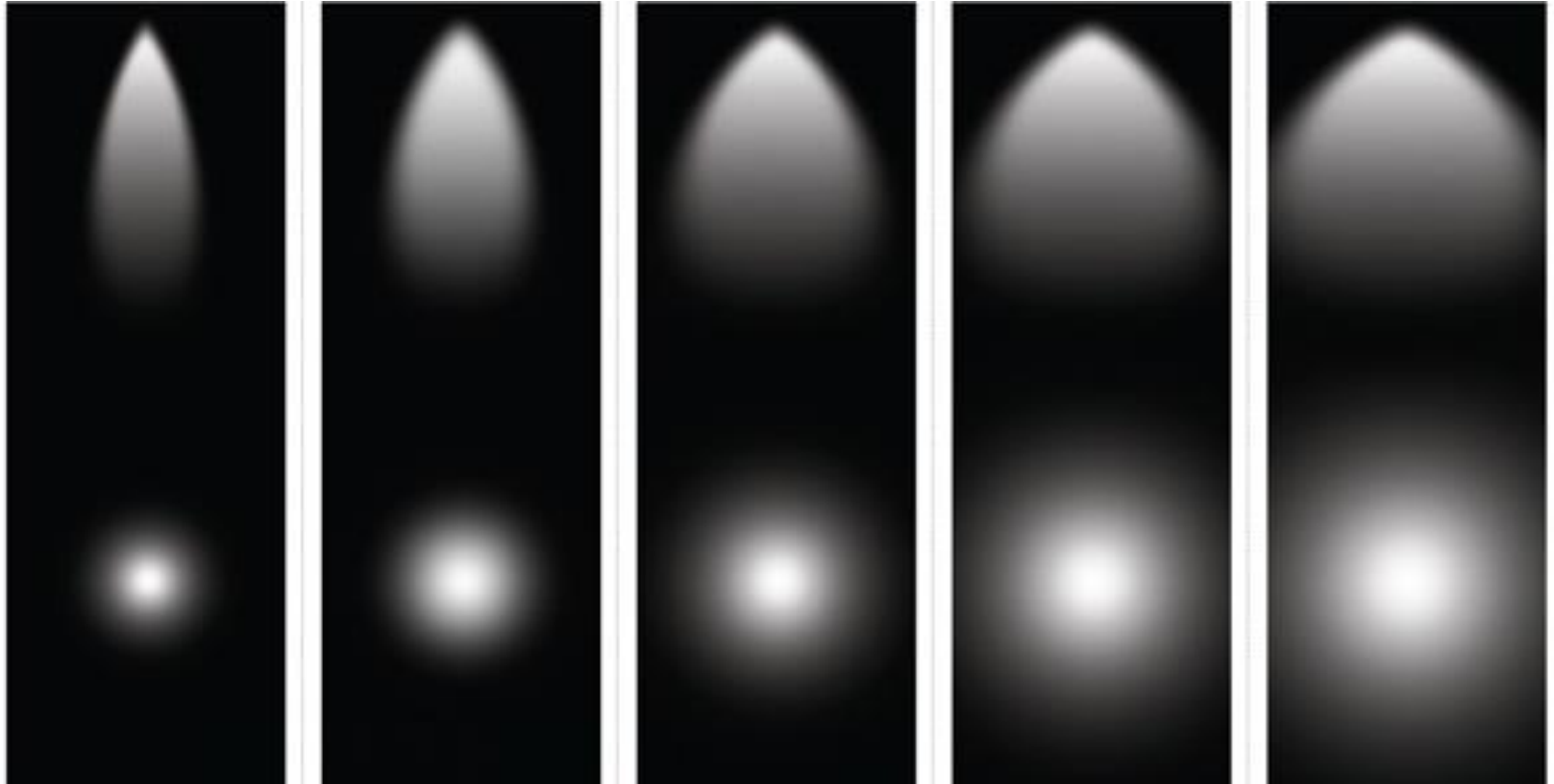
or



Brightness



Control of Light



Instant On



Visibility = Safety



Light
control
from a
distance



Maintenance



Choosing a LED fixture ...



Disposal





Environmental Considerations

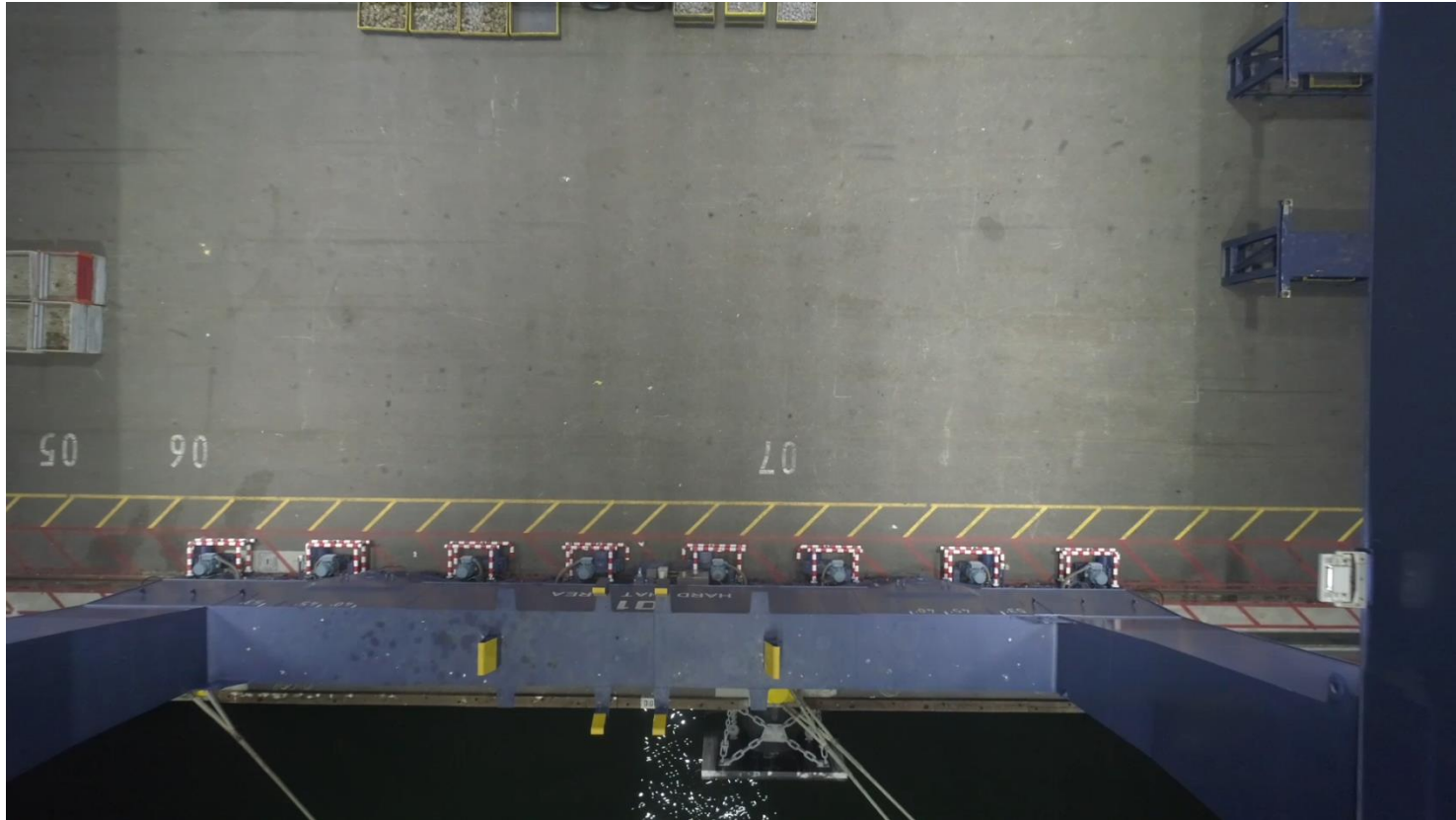
Light Pollution



Energy Consumption



Port Lighting in Action

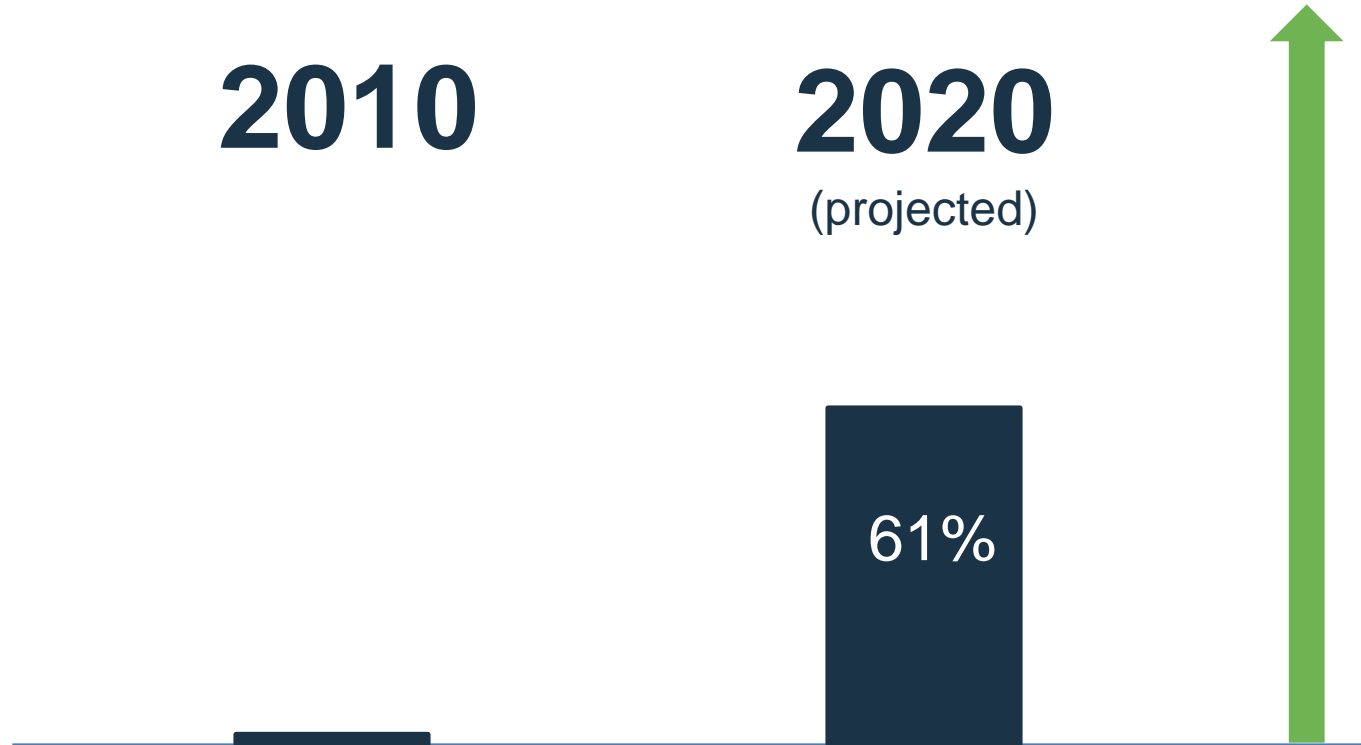


Thank you

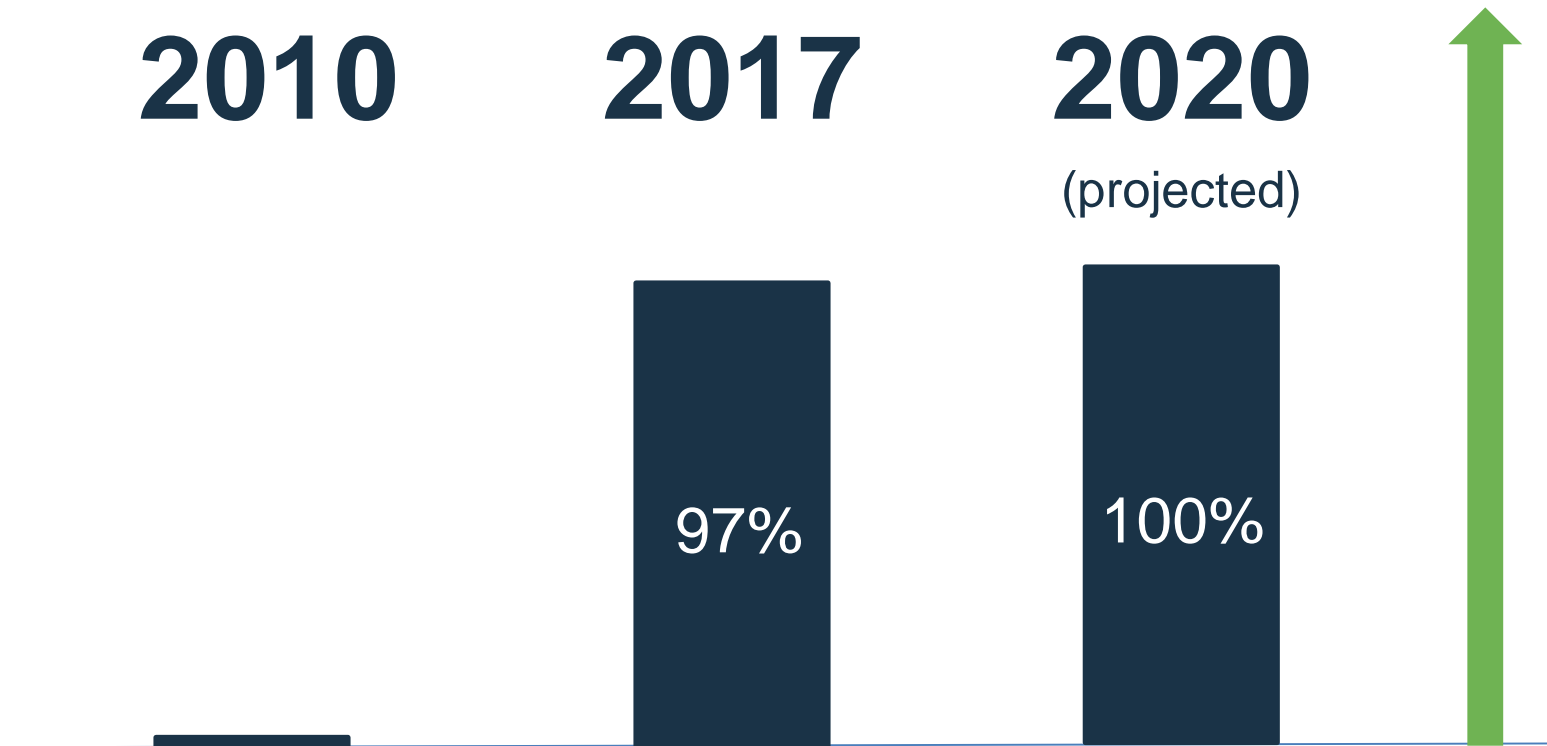
wafifi@phoenixterminalsolutions.com



Overall LED Lighting Market

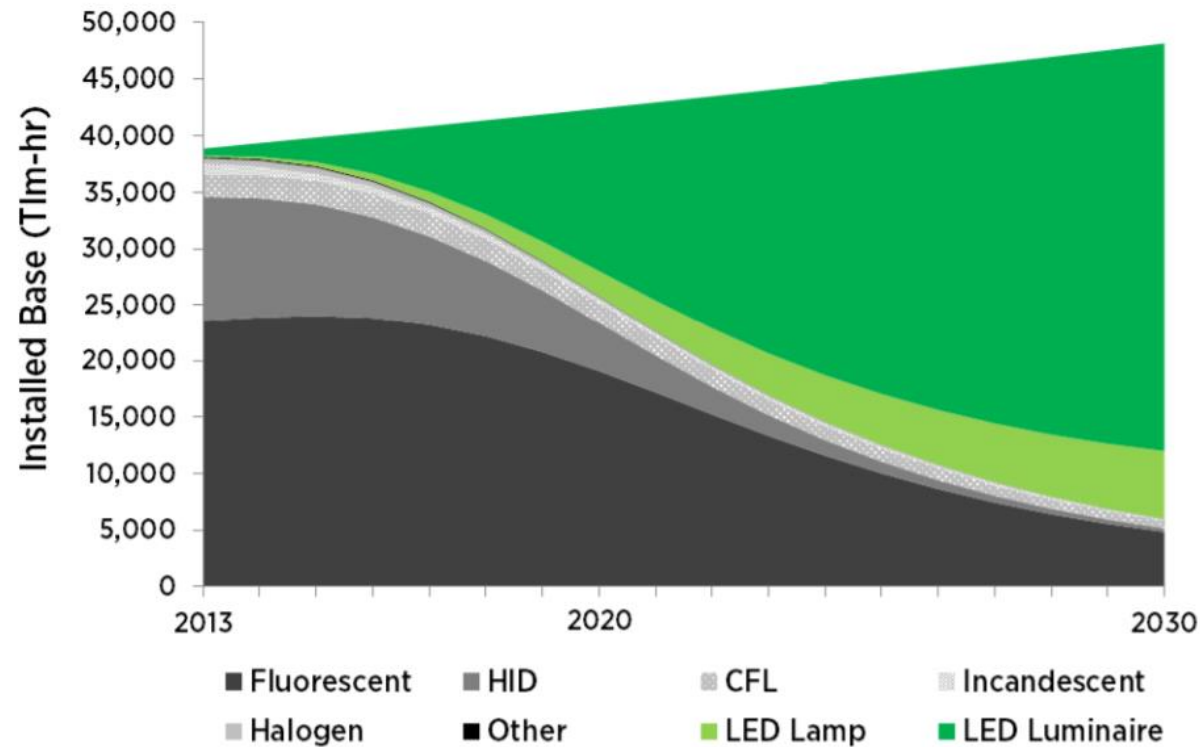


Port Lighting Market



Lighting Industry Trends

62% LED generated illumination by 2020



US Department of Energy - 2014

