BUILDING AND SITE LIGHTING ASSESSMENTS

ABOUT ME

• Partner at Alaska Architectural Lighting
• Manager of lighting controls and specification
• Been in the industry for 12 years
GOAL - WHAT ARE WE TRYING TO ACCOMPLISH

• Increased efficiency
• Reduced Maintenance
  - What is L70?
• Increased Function
• Safety
• Increased educational outcomes

INTERIOR ASSESSMENTS

• Equipment required?
• Survey of existing
• Definition of space
INTERIOR ASSESSMENTS

• Fixture replacement – What tools do we have?
  - Approximate equivalencies?
  - Software

EXTERIOR ASSESSMENTS

• Equipment required?

• Survey of existing

• Fixture replacement – What tools do we have?
  - Approximate equivalencies?
  - Software
EXTERIOR ASSESSMENTS

• To what level does this area need to be lit to?

• Can we determine the LZ?
  - Does it need to change?

ECONOMIC ANALYSIS

• Energy isn’t the only variable

• Available resources
ALASKA REGIONAL HOSPITAL – CASE STUDY

HID LIGHTING

GROUND VIEW  ROOF VIEW
EXISTING

• Unmaintained HID lighting.
• Existing lighting consisted of (89) 1000w fixtures and (43) 250w fixtures
• Existing line voltage photocell

ANALYSIS OF AREA

• Existing fixture wattage for the complete site was 111kW.
• Accepted lighting retrofit solution consisted of 23kW.
• Based on their annual usage this retrofit is saving them $30,000.00 per year on energy.
• Not only did this improvement save the hospital money, but it increased the safety in the lot.
POSSIBILITY FOR INCREASED SAVINGS

• Lighting control strategies
  • Dimming
  • Occupancy sensing

QUESTIONS?