

# FY 2010 RESEARCH PROBLEM STATEMENT

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**TITLE** ([more info](#))

**Development of Guidance on Effective Lighting of Pedestrian Crossings**

**PROBLEM (Description of need)** ([more info](#))

ODOT does not have any adopted standards or guidance for lighting pedestrian crossings. Effective lighting of pedestrian crossings is dependant on a number of variables that are difficult for local agencies and ODOT Tech Centers to access and requires specialty knowledge not resident in most city, county and ODOT engineering departments.

According to FHWA study Safety Effects of Marked Versus Unmarked Crosswalks at Uncontrolled Locations (HRT - 04 \_100) a disproportionate number of pedestrian crashes occur at nighttime. In other words, fewer pedestrians are crossing the street at night, yet those that do represent a disproportionate fraction of pedestrian crashes. ODOT crash analysis has confirmed this result. The study goes on to recommends providing adequate nighttime lighting at pedestrian crossings.

**PROPOSED RESEARCH, DEVELOPMENT OR TECHNOLOGY TRANSFER ACTIVITY** ([more info](#))

A recent FHWA publication (Informational Report on Lighting Design for Midblock Crosswalks FHWA - HRT - 08 - 053) recommends "Testing a variety of combinations of mounting heights and luminaire types will allow an agency to establish standard recommendations for typical crosswalk scenarios."

This research project would test standard or commonly used luminaires and mounting configurations in typical crosswalk environments and provide guidance on best crosswalk lighting practices.

## BENEFITS ([more info](#))

Improved safety and visibility of pedestrians reduces crashes. Guidance on best lighting practices will streamline and reduce costs of the design and construction of pedestrian crossings.

### CONTACT INFORMATION:

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Problem Statement Number: