



CMF / CRF Details

CMF ID: 7784

Install lighting

Description:

Prior Condition: Roadways without street lighting

Category: Highway lighting

Study: [Validation and Application of Highway Safety Manual \(Part D\) in Florida, Abdel-Aty et al., 2014](#)

Star Quality Rating:

4 Stars

[\[View score details\]](#)

Crash Modification Factor (CMF)

Value: 0.62

Adjusted Standard Error:

Unadjusted Standard Error: 0.12

Crash Reduction Factor (CRF)

Value: 38 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error: 12

Applicability

Crash Type: Rear end

Crash Severity: All

Roadway Types: Minor Arterial

Number of Lanes: 4,6

Road Division Type: All

Speed Limit:

Area Type: Urban

Traffic Volume:

Time of Day: Night

If countermeasure is intersection-based

Intersection Type:

Intersection Geometry:

Traffic Control:

Major Road Traffic Volume:

Minor Road Traffic Volume:

Development Details

Date Range of Data Used: 2006 to 2010

Municipality:

State: FL

Country: USA

Type of Methodology Used: 2

Sample Size Used:

Other Details

Included in Highway Safety Manual?

No

Date Added to Clearinghouse:

Mar-08-2016

Comments:

CMFs of adding lighting on urban 4-lane and 6-lane principal and minor arterials. The number of crashes in the after period were not reported in this study, however, they have been recorded as 300 to give 10 points as a benefit of doubt for one or more of the following: (1) number of miles/sites in the reference/treatment group, (2) number of crashes in the references/treatment group, (3) reporting AADTs for the aggregate dataset but not for the disaggregate dataset used for CMF development.

This site is funded by the U.S. Department of Transportation Federal Highway Administration and maintained by the University of North Carolina Highway Safety Research Center

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