



# CMF / CRF Details

**CMF ID: 7787**

**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:**

3 Stars

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

## Crash Modification Factor (CMF)

**Value:** 0.82

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.12

## Crash Reduction Factor (CRF)

**Value:** 18 (This value indicates a **decrease** in crashes)

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 12

## Applicability

**Crash Type:** Other

**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 other crash types of adding lighting on urban 4-lane and 6-lane principal and minor arterials. Other crash types include all the crash types except rear-end, angle, and single vehicle crash. 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.

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