



## CMF / CRF Details

CMF ID: 8852

### Install Red-light indicator lights

**Description:** Red-light indicator lights are mounted on the signal head or on the mast arm. The indicator activates simultaneously with the red interval, allowing an enforcement officer downstream to identify if a vehicle has violated the red interval.

**Prior Condition:** 4-legged signalized intersection without RLIL

**Category:** Advanced technology and ITS

**Study:** [Safety Evaluation of Red-Light Indicator Lights in Florida, Himes et al., 2017](#)

Star Quality Rating:



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

### Crash Modification Factor (CMF)

**Value:** 0.858

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.041

### Crash Reduction Factor (CRF)

**Value:** 14.2 (This value indicates a **decrease** in crashes)

**Adjusted Standard Error:**

**Unadjusted Standard Error:**

### Applicability

**Crash Type:**

All

**Crash Severity:**

All

**Roadway Types:**

Not specified

**Number of Lanes:**

**Road Division Type:**

**Speed Limit:**

**Area Type:**

Not specified

**Traffic Volume:**

**Time of Day:**

All

#### *If countermeasure is intersection-based*

**Intersection Type:**

Roadway/roadway (not interchange related)

**Intersection Geometry:**

4-leg

**Traffic Control:**

Signalized

**Major Road Traffic Volume:**

5900 to 80500 Annual Average Daily Traffic (AADT)

**Minor Road Traffic Volume:**

845 to 62666 Annual Average Daily Traffic (AADT)

### Development Details

**Date Range of Data Used:**

2003 to 2012

**Municipality:**

<b>State:</b>	FL
<b>Country:</b>	USA
<b>Type of Methodology Used:</b>	Before/after using empirical Bayes or full Bayes
<b>Sample Size Used:</b>	

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Nov-17-2017
<b>Comments:</b>	Disaggregated CMF for less than 20% of total entering volume from minor approaches

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