



CMF / CRF Details

CMF ID: 8859

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: 0.978

Adjusted Standard Error:

Unadjusted Standard Error: 0.055

Crash Reduction Factor (CRF)

Value: 2.2 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error:

Applicability

Crash Type: Angle

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:

State:	FL
Country:	USA
Type of Methodology Used:	2
Sample Size Used:	

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Nov-17-2017
Comments:	Disaggregated CMF for total entering volume $\geq 40,000$ veh/day 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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