



## CMF / CRF Details

**CMF ID: 4366**

**Installing red light running (RLR) cameras for four-way signalized intersection**

**Description: Installing red light running cameras only on the approaches with high potential for crashes**

**Prior Condition: No red light running cameras on any of the signalized intersection approaches**

**Category: Advanced technology and ITS**

**Study: [Red Light Running Camera Assessment, Sperley Ross, 2011](#)**

**Star Quality Rating:**



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

### Crash Modification Factor (CMF)

**Value:** 1.23

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.24

### Crash Reduction Factor (CRF)

**Value:** -23 (This value indicates an **increase** in crashes)

**Adjusted Standard Error:**

**Unadjusted Standard Error:**

24

### Applicability

**Crash Type:**

Angle,Rear end,Sideswipe

**Crash Severity:**

B (minor injury),O (property damage only)

**Roadway Types:**

Major Collector

**Number of Lanes:**

**Road Division Type:**

Undivided

**Speed Limit:**

40

**Area Type:**

Urban

**Traffic Volume:**

**Time of Day:**

Not specified

### *If countermeasure is intersection-based*

**Intersection Type:**

Roadway/roadway (not interchange related)

**Intersection Geometry:**

4-leg

**Traffic Control:**

Signalized

**Major Road Traffic Volume:**

**Minor Road Traffic Volume:**

### Development Details

**Date Range of Data Used:**

2004 to 2009

**Municipality:**

Salem

**State:**

OR

<b>Country:</b>	USA
<b>Type of Methodology Used:</b>	Simple before/after
<b>Sample Size Used:</b>	
<b>Before Sample Size Used:</b>	77
<b>After Sample Size Used:</b>	40

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Dec-06-2012
<b>Comments:</b>	- The report compares the monthly average of crashes.- The before period is 50 months and the after period is 21 months.- This CMF considers crashes on the approaches that have RLR cameras installed.- This CMF covers ONLY a part of the area of influence of these approaches, in order to compare it to the adjacent intersections.

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