



CMF / CRF Details

CMF ID: 4365

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:	
<input type="text" value="✘ Star"/>	[View score details]

Crash Modification Factor (CMF)	
Value:	1.774
Adjusted Standard Error:	
Unadjusted Standard Error:	0.49

Crash Reduction Factor (CRF)	
Value:	-77.4 (This value indicates an increase in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	49

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
Country:	USA

Type of Methodology Used:	3
Sample Size Used:	
Before Sample Size Used:	31
After Sample Size Used:	23

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Dec-06-2012
Comments:	- 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 and covers the full area of influence these approaches.

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