



CMF / CRF Details

CMF ID: 9148

Install parallelogram-shaped pavement markings on approaches to unsignalized pedestrian crosswalks

Description: Install parallelogram-shaped pavement markings approaches to pedestrian crosswalks to provide optical illusion to drivers approaching pedestrian crosswalks.

Prior Condition: *No Prior Condition(s)*

Category: Pedestrians

Study: [Effects of parallelogram-shaped pavement markings on vehicle speed and safety of pedestrian crosswalks on urban roads in China, Guo et al., 2016](#)

Star Quality Rating:	
8 Stars	[View score details]

Crash Modification Factor (CMF)	
Value:	1.054
Adjusted Standard Error:	
Unadjusted Standard Error:	0.029

Crash Reduction Factor (CRF)	
Value:	-5.4 (This value indicates an increase in crashes)
Adjusted Standard Error:	

Unadjusted Standard Error:	2.86
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Applicability

Crash Type:	Rear end
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Crash Severity:	All
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Roadway Types:	Not specified
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Number of Lanes:	3-directional
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Road Division Type:	Divided by Median
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Speed Limit:	60 km/h
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Area Type:	Urban
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Traffic Volume:	
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Time of Day:	All
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If countermeasure is intersection-based

Intersection Type:	Roadway/pedestrian crossing (eg, midblock crossing)
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Intersection Geometry:	No values chosen.
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Traffic Control:	Not specified
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Major Road Traffic Volume:	6989 to 27035 Annual Average Daily Traffic (AADT)
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Minor Road Traffic Volume:	
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Development Details

Date Range of Data Used:	2008 to 2013
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Municipality:	Nanning
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State:	
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Country:	China
Type of Methodology Used:	7
Sample Size Used:	

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Jan-17-2018
Comments:	

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