Kentucky Method 64-201-08
Dated 2/4/08
Supersedes KM 64-201-03
Dated 2/5/03

EVALUATION OF RETROREFLECTIVITY ON INTERSECTION PAVEMENT MARKINGS USING PORTABLE HAND-OPERATED INSTRUMENTS

1. SCOPE:

    1.1. This method covers the evaluation of retroreflectivity on pavement markings using portable hand-operated instruments.

    1.2. It is intended to provide standards of intersection pavement markings to assure that adequate retroreflectivity for the driver is provided by newly applied markings.

    1.3. Thermoplastic intersection pavement markings will be evaluated in a period of not less than 15 to no more than 45 days after the date the materials are applied.

2. TERMINOLOGY: Retroreflectivity: a standard of measure for pavement markings. The units for these readings are millicandelas per square meter per lux ($mcd/m^2/lx$).

3. SUMMARY OF SPECIFICATION:

    3.1. Perform a visual inspection and bond checks for each marking.

    3.2. Perform retroreflectivity tests at each intersection on at least 2 markings.

    3.3. For the purpose of evaluating retroreflectivity, each marking will be considered separately with 2 readings taken on each marking evaluated. Readings will not be taken on portions of the marking that are in the wheel track or where build up of road debris such as oil, grease, etc. would provide readings not representative of the quality of the work.

4. PERFORMANCE REQUIREMENTS:

    4.1. Retroreflectivity: The pavement marking will be evaluated for acceptance within the time period detailed in section 1.3.

    4.2. If all four readings taken in an intersection meet or exceed the required minimum retroreflectivity values established for the materials that are being measured, the intersection markings that are being evaluated will be accepted.

    4.3. If any of the readings taken in an intersection are below the required minimum retroreflectivity values established for the materials that are being measured, additional readings will be taken within the intersection that is being evaluated.

4.4. Taking additional readings: At the discretion of the engineer, additional readings may be taken to assess which markings within an intersection need to be replaced or repaired.

5. REPORTING:

5.1. Include the following in the inspection report:

5.1.1. Printout of the readings taken with the hand-operated instrument (which should show date and time of test and zero reading and calibration).

5.1.2. Date and time of application of the pavement marking from the Contractors Daily Report.

5.1.3. Location (County, intersection, marking tested and any special information).

5.2. Readings shall be recorded in millicandelas per square meter per lux ($mcd/m^2/lx$).

5.3. Measurement shall be reported for each intersection of markings per day.

APPROVED _____
Director
DIVISION OF MATERIALS

DATE _____2/4/08_____

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