

**STATE OF NEW JERSEY  
DEPARTMENT OF TRANSPORTATION  
TRENTON, NEW JERSEY 08625**

**METRIC SPECIFICATIONS FOR DIGITAL PHOTOMETER**

N. J. Specification No. EBM-DP

Effective Date: July 1, 2001

New Jersey Department of Transportation Specifications for a Digital Photometer.

The purpose of these specifications is to describe minimum acceptable design and operating requirements for a digital photometer.

**GENERAL - I**

The digital photometer shall be compact, and shall utilize a 9 volt battery and shall have an external power socket allowing use of commercially available 9 volt, 7 milliamp DC power supplies. This instrument is intended for the measurement of the intensity of light radiation corrected to the human eye response.

**PHOTOMETER SPECIFICATIONS - II**

The photometer shall be responsive to the illumination ranges of:

0.01 to 99 900 lux

The meter shall have an accuracy of:

±2% of recording

±1 digit in last display position

The receptor shall be detachable and provided with two extension cables of at least 1 meter and 10 meters.

The receptor shall have a silicon photo cell.

The receptor shall provide cosine correction for angle of incidence up to 80 degrees.

**INSTRUCTIONS AND GUARANTEE - III**

Upon request, one wiring diagram manual shall be provided with each unit.

No changes or substitution in these requirements will be accepted unless authorized in writing. Inquiries regarding this specification shall be addressed to the Manager, Office of Traffic Signal and Safety Engineering, New Jersey Department of Transportation, 1035 Parkway Avenue, P.O. Box 613, Trenton, NJ 08625.

Each unit shall be provided with a two-year warranty from date of delivery against any imperfections in workmanship or materials.

The company agrees upon the request of the Manager, Office of Traffic Signal and Safety Engineering to deliver to the Office, a sample of the unit to be supplied in compliance with these specifications for inspection and test before acceptance. After completion of the test the sample shall be returned.

Any repairs made by a manufacturer or representative shall be documented and returned with units when warranty repaired. This documentation shall include an explanation of the exact repairs made and identification of parts replaced by part number and circuit number. All warranty repairs must be made within thirty days upon receiving equipment.