



## **ANSI C136.17-2005 (R2010)**

### **American National Standard**

for Roadway and Area Lighting  
Equipment—Enclosed  
Side-Mounted Luminaires for  
Horizontal-Burning High-Intensity  
Discharge Lamps—Mechanical  
Interchangeability of Refractors

This is a preview of "ANSI C136.17-2005 (R...)". [Click here to purchase the full version from the ANSI store.](#)

# American National Standard



## *for Roadway and Area Lighting Equipment— Enclosed Side-Mounted Luminaires for Horizontal- Burning High-Intensity Discharge Lamps—Mechanical Interchangeability of Refractors*

Approved October 25, 2005  
Reaffirmed April 4, 2011

Secretariat: National Electrical Manufacturers Association

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Published by  
**National Electrical Manufacturers Association**  
**1300 North 17th Street, Suite 1752, Rosslyn, VA 22209**

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### **1 Scope**

This standard covers the dimensional features and the materials of refractors of the approximate shape shown in Figures 1 through 3, and as described in ANSI C136.14, *American National Standard for Roadway and Area Lighting Equipment—Enclosed Side-mounted Luminaires for Horizontal-burning High-intensity Discharge Lamps*.

### **2 Purpose**

This standard provides:

- a) A description and diagrams of substitute refractors for the original refractor when replacement is necessary.
- b) The dimensions for a good fit for the refractor at the points of contact, the points of attachment, or both, to the reflector or the housing, or to both the reflector and the housing.
- c) Requirements for light distribution acceptable to the user, but not necessarily equal to the original optical system.

NOTE—The optics package consisting of the lamp, the reflector, and the refractor configuration is unique to the individual luminaire. Replacement of a single luminaire component will not guarantee the same optical performance.

The requirements and figures of this standard will help keep the number of refractors needed on service vehicles to a minimum.