ANSI C136.15-2004
Revision of ANSI C136.15-1986 (R1997)

# American National Standard

## *For Roadway and Area Lighting Equipment – High-intensity Discharge and Low-pressure Sodium Lamps in Luminaires—Field Identification*

Approved November 8, 2004 Secretariat: National Electrical Manufacturers Association

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## 1 Scope

The intent of this standard is to provide a simple, uniform method for identifying the type and wattage rating of a high-intensity discharge or low-pressure sodium lamp(s) installed in a luminaire used for roadway and area lighting.

## 2 Normative references

This standard incorporates by undated reference provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed below. For undated references, the latest edition of the publication referred to applies (including amendments).

ANSI C136.6-1997, *American National Standard for Roadway and Area Lighting Equipment—Metal Heads and Reflector Assemblies—Mechanical and Optical Interchangeability*.

ANSI C136.14-2003, *American National Standard for Roadway and Area Lighting Equipment—Enclosed Side-mounted Luminaires for Horizontal-burning High-intensity Discharge Lamps*.

ANSI C136.16-1997, *American National Standard for Roadway and Area Lighting Equipment—Enclosed Post-top Mounted Luminaires*.

ANSI C136.32-1999, *American National Standard for Roadway and Area Lighting Equipment—Enclosed Setback Luminaires and Directional Floodlights for High Intensity Discharge Lamps*.

NOTE ANSI Standards are available from Global Engineering Documents, 15 Inverness Way East, Englewood, CO 80112-5776 Phone: 303/397-7956, Fax 303/397-2740, e-mail: global@ihs.com or www.global.his.com.

## 3 General

### 3.1 Lamp identification

Since a luminaire may be used with a variety of combinations of lamp types and lamp wattages, it is desirable to provide the person on the ground with a means of identification of these items.

### 3.2 Uniform marking

This standard provides a means of uniform marking, whether by the manufacturer or user.

### 3.3 New luminaires

It is the intent of this standard that new roadway luminaires shall be furnished with the appropriate marker(s) as specified in Clause 4.

#### 3.3.1 Multi – purpose ballasts

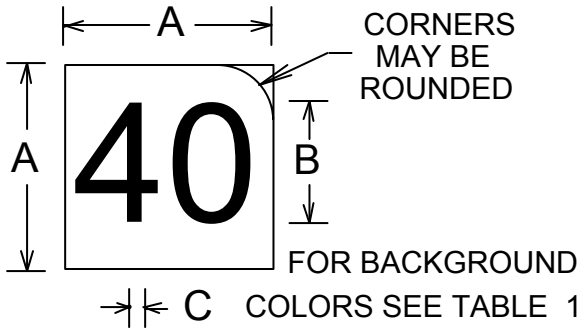
Luninaires with ballasts intended for user-selectable lamp types or wattage sizes shall be packaged with the appropriate markers.



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### 3.3.2 Marker size

Luminaires normally mounted above 6.1 m (20 ft) shall use the LARGE marker as shown in Figure 1. The SMALL marker shall be used for post top or architectural type luminaires.




| Marker dimensions | | |
|---|---|---|
| Dimension | Marker type | |
| | Small | Large |
| A | 25.4 ± 1.6 mm (1 ± 1/16 in) | 76.2 ± 1.6 mm (3 ± 1/16 in) |
| B | 19.05 mm Min (3/4 in Min) | 50.8 mm Min (2 in Min) |
| C | 3.175 mm Min (1/8 in Min) | 6.35 mm Min (1/4 in Min) |

**Figure 1 – Marker dimension**

## 4 Physical requirements

### 4.1 Dimensions

The marker shall meet the dimensions specified in Figure 1.

### 4.2 Materials

The marker shall be made of non-corrosive material and painted or otherwise processed to provide a durable legible surface that is designed to endure for the life of the luminaire.

### 4.3 Background

The marker shall have a stable color background in accordance with Table 1.

**Table 1 – Lamp marker background color for identifying lamp type**

| Lamp type | Identifying color |
|---|---|
| High-pressure sodium | Gold or yellow |
| High-pressure sodium/penning | Green |
| Low-pressure sodium | Tan |
| Mercury vapor | Blue |
| Metal halide | Red |



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### 4.4 Numerals

The marker shall have black block numerals in accordance with Table 2.

**Table 2. Lamp marker numerals for identifying lamp wattage**

| Lamp wattage | Remarks | Identifying numeral |
|---|---|---|
| 18 | | 1 |
| 35 | | 3 |
| 50 | | 5 |
| 55 | | 5 |
| 70 | | 7 |
| 90 | | 9 |
| 100 | | 10 |
| 135 | | 13 |
| 150 | 55 Volts | 15 |
| 150 | 100 Volts | 15H |
| 175 | | 17 |
| 175 | position oriented | 17B |
| 180 | | 18 |
| 200 | | 20 |
| 215 | | 21 |
| 220 | | 22 |
| 250 | | 25 |
| 250 | position oriented | 25B |
| 310 | | 31 |
| 360 | | 36 |
| 400 | | 40 |
| 400 | position oriented | 40B |
| 600 | | 60 |
| 660 | | 66 |
| 700 | | 70 |
| 750 | | 75 |
| 1000 | | X1 |

### 4.5 Method of attachment

The marker shall be secured to the luminaire by any suitable means that is designed to endure for the life of the luminaire.



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### 4.6 Location of marker

The location of the marker:

a) On luminaires conforming to ANSI C136.6: The marker shall be located on the left road quarter of the head, as viewed from the bracket attachment.

b) On luminaires conforming to ANSI C136.14: The marker shall be mounted on the underside of the luminaire between the pole and the optical assembly.

c) On luminaires conforming to ANSI C136.16: The marker shall be mounted on the road side of the slip fitter.

d) On luminaires conforming to ANSI C136.32: The marker shall be mounted on the front under the lens.

Variations may be permitted to conform to individual luminaire designs or as specified by the user.

# <End of Standard>



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