



Standard for
Installing Industrial
Lighting Systems



Published by
National Electrical
Contractors Association



Jointly developed with
Illuminating Engineering Society
of North America



NECA/IESNA 502-2006

Standard for
Installing Industrial
Lighting Systems

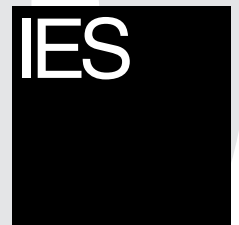
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Table of Contents

Foreword	.iii
1. Scope	1
1.1 Products and Equipment Included	1
1.2 Products and Equipment Excluded	1
1.3 Related Construction Materials	1
1.4 Regulatory and Other Requirements	1
2. Definitions	2
3. General Installation Practices	4
3.1 Receiving, Storing, Protecting and Delivering	4
3.2 Site Preparation	4
3.3 Unpacking and Handling Material	5
3.4 Coordination with Other Construction	5
3.5 Securing Equipment in Place	6
3.6 Wiring Connections	7
3.7 Installation	8
3.8 Temporary Lighting	8
3.9 Interior Clean-Out	8
3.10 Preliminary Field Adjustments	8
3.11 Lamping and Accessories	8
3.12 Final Cleaning and Completion of Luminaire Installation	8
3.13 Testing	9
3.14 Burn-In	9
3.15 Site Clean-Up	9
3.16 Lighting Walk-Through	9
3.17 Adjustments	9
3.18 Spare Parts	9
3.19 Lamp List	9
4. High-Intensity Discharge (HID) Lighting Systems	10
4.1 Installation Using Conventional Construction	10
4.2 Installation Using Industrial Lighting Track or Structural Wireways	10
5. Fluorescent Lighting Systems	12
5.1 General	12
5.2 Suspended Luminaires	12
5.3 Surface Mounted Luminaires	13
6. Other Industrial Lighting Systems	14

NECA/IESNA 502 Standard for Installing Industrial Lighting Systems

6.1 Pendant-Mounted Luminaires14

6.2 Wall-Mounted Luminaires14

6.3 Task Lighting14

Annex A: Stroboscopic Effects16

Annex B: Reference Standards18

(This foreword is not a part of the standard)

Foreword

National Electrical Installation Standards™ (NEIS®) are designed to improve communication among specifiers, purchasers, and suppliers of electrical construction services. They define a minimum baseline of quality and workmanship for installing electrical products and systems. *NEIS* are intended to be referenced in contract documents for electrical construction projects. The following language is recommended:

Industrial lighting systems shall be installed in accordance with NECA/IESNA 502-2006, *Standard for Installing Industrial Lighting Systems* (ANSI).

Use of *NEIS* is voluntary, and the National Electrical Contractors Association (NECA) and the Illuminating Engineering Society of North America (IESNA) assume no obligation or liability to users of this publication. Existence of a standard shall not preclude any member or non member of either organization from specifying or using alternate construction methods permitted by applicable regulations.

This publication is intended to comply with the edition of the National Electrical Code (NEC) in effect at the time of publication. Because they are quality standards, *NEIS* may in some instances go beyond the minimum safety requirements of the NEC. It is the responsibility of users of this publication to comply with state and local electrical codes when installing electrical products and systems.

Suggestions for revisions and improvements to this standard are welcome. They should be addressed to:

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NECA/IESNA 502 Standard for Installing Industrial Lighting Systems

Revision History		
NECA/IESNA 502-1999	07/1999	First publication
NECA/IESNA 502-2006	09/2006	Reaffirmation

1. Scope

1.1 Products and Equipment Included

This standard describes installation procedures for lighting systems commonly used in industrial and storage buildings, including, but not limited to, the following:

- a) High intensity discharge (HID) low-bay and high-bay lighting systems.
- b) Fluorescent strip lights and general purpose industrial overhead lighting systems.
- c) Common special-purpose and special-environment industrial luminaires.
- d) Lighting installed on industrial wireway and track lighting systems.

1.2 Products and Equipment Excluded

While this standard generally covers most industrial lighting systems, the following are specifically excluded:

- a) Recessed and surface mounted indoor commercial lighting systems covered by NECA/IESNA 500-2006 (ANSI).
- b) Lighting systems designed for hazardous (classified) locations, as defined by NEC Article 500, in which special equipment listings or ratings are required.
- c) Lighting systems designed for manufacturing clean rooms, food preparation areas, and other special environments.
- d) Portable lighting.

1.3 Related Construction Materials

In addition to the luminaire(s) proper, this standard includes related construction materials, including lamps, conduit, wire, various special screws and clips, structural suspension components, and other related components and parts.

1.4 Regulatory and Other Requirements

- a) All information in this publication is intended to conform to the National Electrical Code (ANSI/NFPA 70). It is recommended that all work be performed in accordance with NFPA 70E, *Standard for Electrical Safety in the Workplace*. Installers should always follow the NEC, applicable state and local codes, manufacturer's instructions, and contract documents when installing industrial lighting systems.
- b) Only qualified persons familiar with the construction and installation of industrial lighting systems should perform the work described in this publication.
- c) General requirements for installing electrical products and systems are described in NECA 1, *Standard for Good Workmanship in Electrical Contracting* (ANSI). Other *National Electrical Installation Standards* provide additional guidance for installing particular types of electrical products and systems. A complete list of *NEIS* is provided in Annex B.