



ANSI C136.58-2019

American National
Standard for Roadway
and Area Lighting
Equipment— Luminaire
Four-Pin Extension
Module and Receptacle
— Physical and
Electrical
Interchangeability and
Testing



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*American National Standard for
Roadway and Area Lighting Equipment—
Luminaire Four-Pin Extension Module and Receptacle—
Physical and Electrical Interchangeability and Testing*

Secretariat:

National Electrical Manufacturers Association

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FOREWORD

At the time this Standard was approved the ANSI C136 committee was composed of the following Members:

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Luminaire Four-Pin Extension Module and Receptacle—Physical and Electrical Interchangeability and Testing

Introduction

The need for an upgradeable, intelligent luminaire having a more diverse range of functions (connectivity, sensors) has resulted in the need to develop the luminaire four-pin extension module and receptacle. The smaller footprint of the receptacle supports the miniaturization trend of LED luminaires.

Precedence

This Standard in its parts refers to ANSI C137.4—*Digital Interface with Auxiliary Power for Devices*, for the electrical interconnection between the receptacle and the driver.

In the case of any perceived discrepancy between the definitions and requirements provided in Referenced Publications (RP) and this Standard, the definitions provided in this Standard take precedence over the definitions and requirements provided in RPs.

Where the requirements of any of the clauses of RP are referred to in this Standard by the phrase “The requirements of Clause n of C136. (or RP) apply.”

1 Scope

1.1 This document defines the following roadway and area lighting equipment, which may be physically and electrically interchanged to operate within established values:

- a. A locking type 4-pin Luminaire Extension Module (LEX-M),
- b. A locking type mating 4-pin Luminaire Extension Receptacle (LEX-R),
- c. A Luminaire Extension Cap (LEX-C),

Notes:

Figures 1.1A, 1.1B, and 1.1C show informative 3D-model renderings of these components. Figure 1.6 gives an overview of a Luminaire with a LEX-R, LEX-M, or LEX-C.



Figure 1.1A: Luminaire Extension Module (bottom / top view-example only)

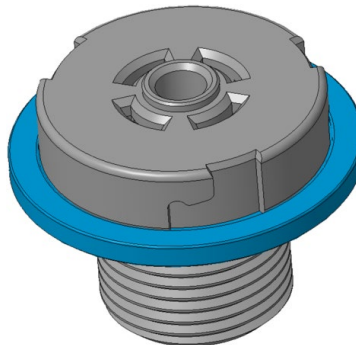


Figure 1.1B: Luminaire Extension Receptacle (top view)

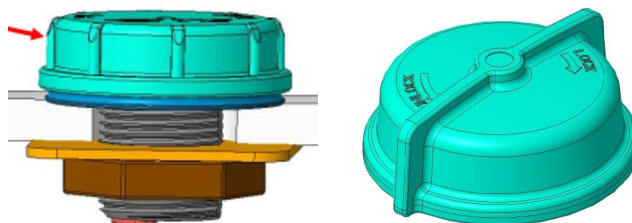


Figure 1.1C: Luminaire Extension Cap

1.2 The equipment in 1.1 is primarily intended for outdoor application, although it may also be used indoors.