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American National Standard For Roadway and Area Lighting Equipment— Wireless Networked Lighting Controllers

National Electrical Manufacturers Association

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Secretariat:

National Electrical Manufacturers Association

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Foreword

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1 Introduction

1.1 The core of any networked control system is the network of field devices, which are fundamentally producers and consumers of data that exchange information with each other in various ways. Field device networks always include controllers that turn on and off streetlight systems lights and perhaps adjust lighting lumen levels, as well as monitor performance, all according to an internal program. Controllers route data to and from gateways, which at minimum act as communication bridges to outside networks, but may also provide other system functions.

1.2 Field device networks are accessed and managed remotely by a central management system, which facilitates user interaction, typically through graphical user interfaces, and typically consolidates, and stores retrieved data. These systems communicate to field device networks through one or more backhaul communication networks, which may take various forms (including wired and wireless).

2 Scope

2.1 This Standard defines the minimum requirements for wireless networked lighting controllers (NLC) intended for use with roadway and area lighting systems.