



# RICK W. KAUFFMAN

## **Career Summary:**

Rick brings over thirty years of high level experience in the lighting industry, where he serves on several of the most critical organizations in the lighting industry. He served as IES' Roadway Lighting Committee Chairman of Standard Practice IESNA, leading the effort in the development of RP-8-14, which is the document which is the authority on how roadway lighting calculations are performed and measured. Additionally, Rick is a chair or member of several other key IES committee and is a very respected voice within the organization. Mr. Kauffman is also a key member of ANSI C136, which develops many of the specifications for roadway and area fixtures. In that, he prepared the original draft of a number of the organization's standards such as SSL luminaires, vibration, glass lenses and is currently developing one for both luminaire cleaning as well as for polymeric lenses in luminaires. While an Executive Committee member with the US Department of Energy Municipal Solid-state Street Lighting Consortium, Rick prepared the initial draft of the Model LED Roadway Luminaire Specification. Many DOT's and municipalities look to this document when developing their own LED fixture specification. Rick formerly served as NEMA's Chairman of the Luminaire section for three years during the development of the Luminaire Efficacy Rating standards. Obviously, anyone would be hard pressed to find someone with his diverse and in depth knowledge of the lighting industry. Rick shares some of this incredible knowledge as an instructor with several organizations, such as the University of Wisconsin and Lightfair. Mr. Kauffman has done lighting research and retrofit projects for many major cities across the United States, bringing even more diversity to his experience. Before joining Wi-Skies, Rick was the President of Kauffman Consulting, where he provided over fourteen years of high level quality consultant support to his clients, even developing 25 patents including complete luminaire and optical designs. Rick is a master of lighting design software packages such as AGI32, Lumen Micro, Lumen Designer and Photopia. Prior to starting Kauffman Consulting, Rick was responsible for all product development and testing for American Electric Lighting (now part of Acuity Lighting). He managed the lighting labs, trained testing personnel, and personally supervised product compliance testing for agencies such as IDOT, TXDOT, and Kansas City, MO. He has built and/or upgraded an automated ballast test bench, gonio-photometers, luminaire vibration test equipment, and thermal test chambers. He has also conducted illuminance and luminance field testing to IES LM-50.

## **Contact Information:**

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## **Education:**

- ◆ B.S. Mechanical Engineering – Memphis State University, 1976
- ◆ M.S. Mechanical Engineering – Vanderbilt University, 1984

## **Professional Societies:**

- ◆ IES Roadway Lighting Standard Practice Chairman (2005 – 2016)
- ◆ IES Light Control and Luminaire Design Committee Chairman (2007-Present)
- ◆ ANSI C136 Committee Member since 1989
- ◆ NEMA Luminaire Section Chair (1993-1995)
- ◆ USDOE MSSLC Executive Committee Member (2010-2015)

## **Project Summary:**

**Senior Lighting Designer for LED Retrofit Project for North Carolina DOT and Brady Services (ESCO).** Rick led a comprehensive effort to retrofit a total of 212 sites across the state of North Carolina from high pressure sodium to LED. The turnkey effort varied in project type and size, ranging from rural roadways to complex interchanges. He performed photometric calculations for many different LED options for each type of fixture, such as cobra head, high mast, wall packs, sign and offset tilted fixtures. Rick developed the equipment specifications and performed energy saving targets for the retrofit sites. After installation, he will verify their photometric performance to verify photometric performance.

**Senior Lighting Designer for City of Chicopee, MA LED Conversion.** In an effort to cut back on annual energy use, the City of Chicopee retrofitted over five thousand roadway lighting fixtures from HPS to LED. Mr. Kauffman performed the photometric effort to verify the proper fixtures were used to ensure no drop in lighting performance. He prepared the luminaire specification and performed the bid analysis and equipment selection to ensure those lighting design criteria were met while also meeting the minimum energy savings requirements, which were also a part of the project.

**Senior Lighting Designer for LED Retrofit Project (City of Independence, Missouri)** Rick performed photometric analysis, developed luminaire specifications and assisted in equipment selection for the retrofit of over 12,000 roadway lighting fixtures from HPS to LED. He also performed the energy saving analysis and bid analysis during letting.

**Senior Lighting Designer for DTE Energy LED Conversion – Detroit, Michigan.** The energy supplying company, DTE Energy, requested Rick's assistance in finding acceptable LED fixtures for a system-wide one for one replacement for over 100,000 fixtures. Rick performed photometric analysis of dozens of typical configurations found within the system to find reasonable LED alternatives while minimizing the varying types to ease future maintenance concerns.

**Senior Lighting Designer – Fairview Parkway in Fairview, TX.** Mr. Kauffman designed the lighting system for 3.2 mile corridor, developing specifications, luminaire design and cost estimates. The project was the first LED roadway lighting installation in the state of Texas.

