

Commercial LED Lights Highlights Licensed Engineering Expertise in Explosion Proof Lighting

Licensed PE Peter Kohlert explains explosion proof lighting classifications, certifications, fixture selection, and real-world hazardous-location applications.

FARMINGTON, MI, UNITED STATES, October 14, 2026 /EINPresswire.com/ -- Professional Engineer Peter Kohlert brings more than 40 years of engineering experience to an in-depth technical resource covering hazardous-location classifications, certifications, fixture selection, and real-world explosion proof lighting applications.

Explosion proof lighting is one of the more technically complex areas of commercial and industrial lighting, requiring contractors, engineers, facility managers, and safety professionals to consider hazardous-location classifications, certification requirements, temperature ratings, environmental conditions, and lighting performance when selecting fixtures.

Commercial LED Lights is helping professionals better understand those requirements through an extensive engineer-led resource focused on the technical considerations involved in hazardous-location lighting.

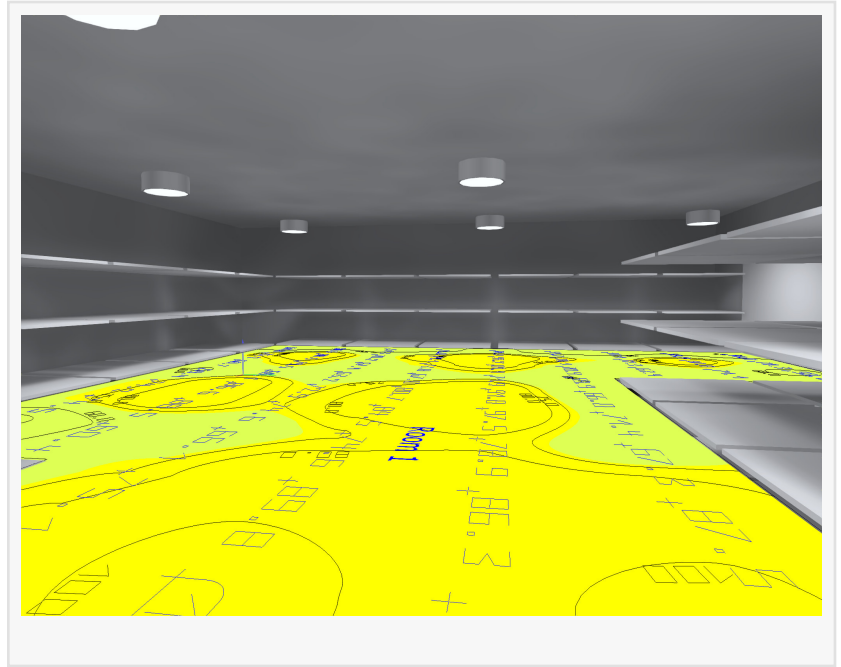
Kohlert explains the principles behind explosion proof and hazardous-location lighting, including Class I, II, and III environments, Division 1 versus Division 2, Groups A through G, Zone classifications, certification marks, UL 844, temperature ratings, fixture construction, and methods for verifying whether a fixture is appropriate for a specific environment.



Engineering Insight Into Hazardous-Location Lighting

The resource was developed to help professionals better understand that selecting an explosion proof light involves considerably more than choosing a wattage or fixture style.

Hazardous-location equipment must be evaluated according to the actual conditions of the environment, including the type of hazardous material present, its Class, Division or Zone, applicable Group designation, temperature requirements, required certifications, environmental conditions, mounting configuration, voltage, and lighting-performance requirements.



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Start by understanding the room or area classification, such as Class I or II, and the activity taking place. Work closely with your safety group, and use a qualified electrician for installation.”

*Peter Kohlert, PE
#6201040560, Professional
Engineer, Commercial LED
Lights*

More Than 40 Years of Engineering Experience

Peter Kohlert is a licensed Professional Engineer in the State of Michigan, PE #6201040560, with more than four decades of engineering experience spanning industrial facilities, power-generation environments, commercial systems, safety, and lighting design. He is also a Certified Six Sigma Black Belt and has experience with DIALux photometric design software.

His work with Commercial LED Lights includes technical guidance and lighting-design support for commercial, industrial, outdoor, and hazardous-location applications.

Understanding Explosion Proof Lighting Requirements

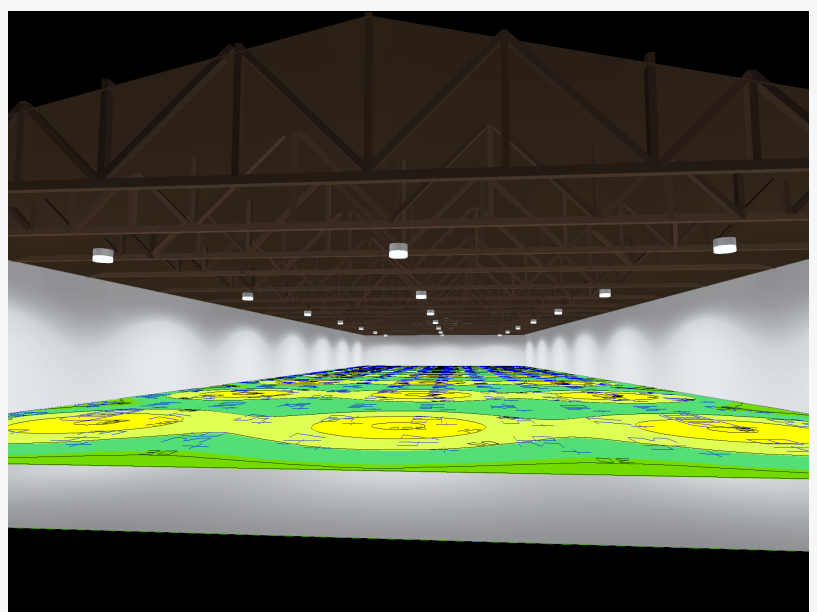
Among the subjects addressed in the resource are:

Hazardous-location Classes and Divisions: Class I covers flammable gases and vapors, Class II addresses combustible dusts, and Class III applies to ignitable fibers and flyings. Division designations further identify how likely hazardous materials are to be present during operating conditions.

Groups A–G: Hazardous materials are further categorized according to specific gases, vapors, and combustible dusts that equipment must be rated to handle.

Class/Division and Zone Systems: The resource explains the differences between the North American Class/Division framework and Zone classifications used for gases, vapors, and combustible dusts.

Certifications and Standards: Kohlert discusses commonly encountered certification organizations and standards, including UL, ETL/Intertek, FM, CSA, UL 844, ATEX, and IECEx.



Fixture Verification: The resource explains how nameplates, specification sheets, Constructional Data Reports, and Certificates of Compliance can be used to verify hazardous-location classifications and certifications.

Backed by Real Hazardous-Location Projects

The technical material is also supported by real-world lighting-design experience. Commercial LED Lights has completed photometric layouts for hazardous environments including chemical processing areas, grain facilities, natural gas operations, distilleries, paint storage facilities, and military environments.

Examples highlighted in the resource include a chemical mixing room using four 150W explosion proof fixtures, a natural gas loading facility illuminated with eleven C1D2 fixtures, a C1D1 distillery receiver-area project, and an indoor military firing range requiring different illumination targets across six zones.

Broad Explosion Proof Lighting Selection and Project Support

Commercial LED Lights works with 7+ explosion proof lighting manufacturers and offers hundreds of hazardous-location fixtures and accessories across multiple configurations, wattages, mounting styles, classifications, and certification requirements.

The company also provides photometric lighting design and technical product-selection support for more complex hazardous-location projects.

[View the Explosion Proof Lighting Resource](#)

The full resource, "Explosion Proof Lighting Explained by a Professional Engineer (PE)," is available at:

<https://commercialledlights.com/blog/explosion-proof-lighting/explosion-proof-lighting-explained-by-a-professional-engineer-pe/>

About Commercial LED Lights

Commercial LED Lights is a Michigan-based supplier of commercial and industrial LED lighting, light poles, and project-specific lighting solutions. The company has supported more than 2,000 commercial lighting projects, completed more than 200 professional lighting designs, published more than 100 detailed lighting case studies, and works with more than 15 established lighting manufacturers.

Commercial LED Lights serves electrical contractors, engineers, facility managers, municipalities, businesses, and property owners throughout the United States.

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