ELPS LIGHT-PAK™

Emergency Lighting System For Hazardous Areas

UL Listed
Class I, Groups B, C, D
Class II, Groups E, F, G
Class III

COOPER Crouse-Hinds

ELPS LIGHT-PAK™

Aimable and lockable—no set screws. Wrench tight unions allow positive fixture positioning.

Optional integral battery disconnect switch (mounts here)—feature lets you de-energize battery circuit for added safety during maintenance. ***(Available with key [S794] or keyless [S854] disconnect switch.)***

State-of-the-art electronics provide status indication.

Effective—tungsten halogen lamps for high light output; faceted inner reflectors for excellent beam control.

Use indoors or outdoors—gasketed with breather/drains for use in wet locations.

Emergency Lighting System For Hazardous Areas

Class I, Groups B†,C, D
Class II, Groups E, F, G
Class III, NEMA 3R, 4X,* 12
Suitable for wet locations

*NEMA 4X pending with new ECD 4X breather and drain.

A New Family of Emergency Lighting

The Light-Pak emergency lighting system from Cooper Crouse-Hinds® is the *only* hazardous area system with lighting fixtures designed specifically for emergency lighting. The aimable, lockable, light-directing, tungsten halogen fixtures enable you to put emergency light where you need it, when you need it.

Designed to operate automatically during failure or interruption of power to the normal lighting system, the explosionproof and dust-ignitionproof Light-Pak system can be used in Class I, Groups B†,C, D; Class II, Groups E, F, G; and Class III hazardous areas, and meets applicable UL, National Electrical Code and Life Safety Code emergency lighting requirements.

Best of all, you know it's dependable because it's from the undisputed leader in hazardous area electrical products—Cooper Crouse-Hinds.

†The ELPS502 with 2 adjustable lamp heads is UL Listed for Group B. When ordering with an exit sign, you must specify the GB suffix to obtain Group B.

Why Emergency Lighting?

Very simply, emergency lighting may help save lives under dangerous or hazardous conditions. Generally, it's *required* by municipal, state or federal codes to provide emergency illumination to worker exit routes ("means of egress"), which include doorways, hallways, aisles, stairs, ramps and passageways leading to an exit.

Emergency lighting is also used to provide standby and safety lighting for critical instruments, equipment and processes.

Applications

The Light-Pak explosionproof emergency lighting system is for use in areas made hazardous due to the presence of flammable gases and vapors, combustible dusts, or ignitable fibers and flyings. Light-Pak can be used indoors or outdoors in heavy industrial and process industry applications where wet, dirty, dusty and corrosive conditions are present.

Class I, Division 1 Applications Include:

- Petroleum Refineries
- Chemical Plants
- Petrochemical Plants
- Gas Processing Plants
- Oil Terminals
- Offshore Oil Platforms
- Waste Treatment Facilities

Class II, Division 1 Applications Include:

- Grain Handling, Storage and Processing Facilities
- Coal Preparation Plants
- Breweries (Grain Storage and Malting)
- Food Processing Industries (Bakeries, Grain Milling)
- Metal Working Facilities
- Ammunition Manufacturing (Ordnance Plants)

Whether your application is for a new facility or the upgrading of an existing facility, Light-Pak is the best hazardous area emergency lighting system for the job.

Features

- Explosionproof emergency light providing 90 minutes of continuous light
- Self calibrating—self calibrates after initial charge
  - Automatic confidence test every month
  - Automatic battery capacity check every 6 months
- Visual status indication of the Light-Pak is readily available through LED indication
- Between lamp head and power supply there is a factory installed seal
- The only Division 1 emergency light with adjustable lamp heads that cast light down long hallways or corridors
- Meets all National Fire Protection Agency requirements for the Life Safety Code and combined with Crouse-Hinds expertise for hazardous area equipment
- Lightweight and compact with screwed-on, replaceable mounting feet
- Suitable for outdoor Marine applications (lamp head only) and highly corrosive environments
- Optional battery disconnect switch (S794 or S854)
- Stainless steel drain and breather as standard

Benefits

- Saves lives and ensures compliance with emergency safety evacuation regulations
- Reduces maintenance costs for the customer (minimizes manual checks of each light) and increases integrity of life safety equipment during emergencies
- System status condition reduces maintenance costs and ensures safe operation during emergency power outages
- A truly explosionproof emergency light—all you need to provide is a seal at the conduit entry per NEC
- Delivers what other lights can't—light where you need it when you need it, minimizing accidents
- Compliant and reliable—90 minutes of available emergency light
- Easy installation even in confined areas
- One unit suitable for all tough environments—save money with one product
- Safely de-energizes the battery circuit during maintenance
- Provides reliable operation in the harshest environments

Compliances

NEC

- Class I, Groups B, C, D
- Class II, Groups E, F, G
- Class III
- NEMA: 3R, 4X,*12 (ELPS power supply)
- Suitable for wet locations (EVLA fixtures)
- Marine (EVLA fixtures)

*NEMA 4X pending with new ECD 4X breather and drain

UL STANDARDS†

- 844—Electric Lighting Fixture—Hazardous Locations
- 924—Emergency Lighting and Power Equipment
- 1203—Explosionproof and Dust-Ignitionproof Electrical Equipment

†We currently do not have UL/cUL on the exit signs. The reason is that we never tested for the UL924 contrast visibility test. This test measures the visible difference between the lettering on the exit sign and the white background around the lettering.

LIFE SAFETY CODE

- Section 5–9 (Emergency Lighting)

STANDARD MATERIAL

- Power supply enclosure and fixture assemblies—copper-free aluminum (less than .4% copper content)

STANDARD FINISH

- Power supply enclosure and fixture assemblies—powder coat epoxy paint finish

Integral unit with exit sign and emergency walkway lighting.

Electrical Ratings

- Power Supply
  Input: 120, 220, 240 or 277 VAC; 50/60 Hz
  0.5 Amps maximum
  Output: 12 VDC
  ELPS502 is UL Listed for 28 watts for 1½ hours at 0–40°C
  Exit signs are rated at 29 watts for 1½ hours
- Lighting Fixtures
  Voltage: 12 VDC
  Lamp Type: 14 watt, tungsten halogen

Temperature Ratings

EVLA12—Maximum Ambient Temperature 55°C (131°F)

EVLA12 Temperature Codes (T-numbers):

- Class I—T4A
- Class II*—T3B
- Class III*—T3B

*For Class II and Class III applications, fixtures must not be aimed more than 30° above horizontal (see diagram on back cover).

ELPS EVI & ELPS EVA—Maximum Ambient Temperature 40°C

- Class I—T4
- Class II—T3C

Options

- Remote mounted EVLA12 lamp head mounted to a Cooper Crouse-Hinds EABC36 or EABL36 1" NPT outlet box
- S794 key operated disconnect switch as part of the ELPS502 emergency light system
- S854 keyless operated designated disconnect switch as part of the ELPS502 emergency light system

Ordering Information

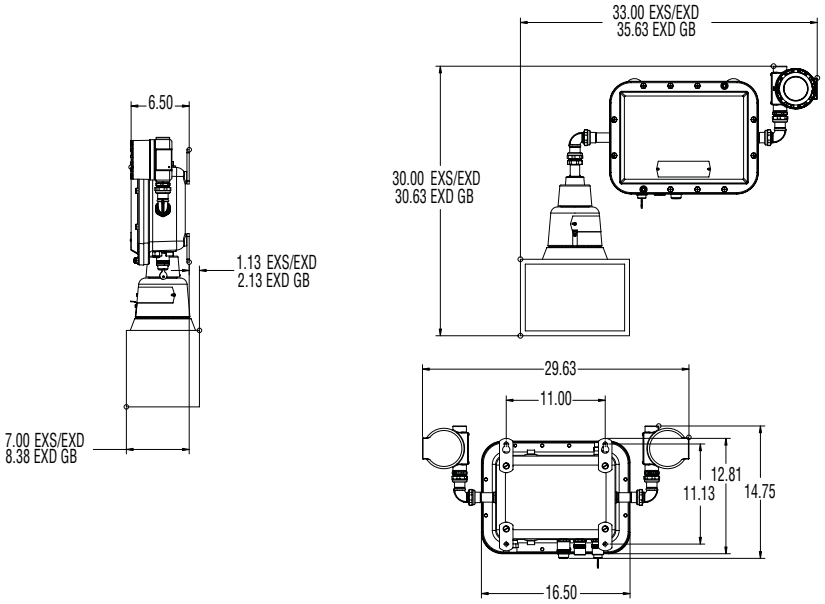
CATALOG NUMBER	DESCRIPTION
ELPS502*	Standard unit with adjustable heads
ELPS-K50	Replacement interior, complete one-piece interior assembly including circuit board, terminal block and battery pack
ELPS50*	Power Supply
EVLA12*	Lamphead and arm
ELPS502-EXD	Exit sign, double sided with EVI, red letters
ELPS502-EXD GN	Exit sign, double sided with EVI, green letters
ELPS502-EXD GB	Exit sign, **single or double** sided with Group B EVA, red letters
ELPS502-EXD GB GN	Exit sign, **single or double** sided with Group B EVA, green letters
ELPS502-EXS	Exit sign, single sided with EVI, red letters
ELPS502-EXS GN	Exit sign, single sided with EVI, green letters

*Base unit comes standard with Class I, Division 1, Group B.

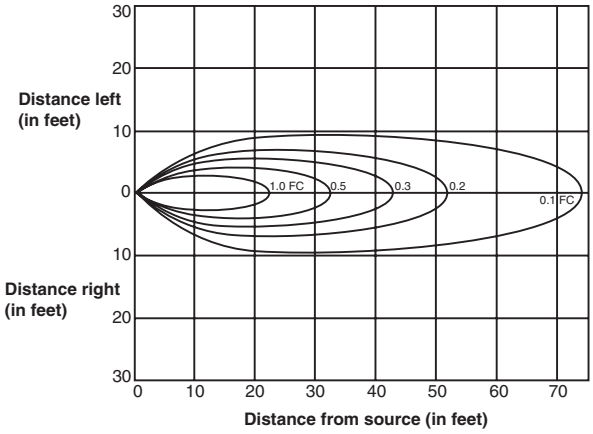
ELPS LIGHT-PAK™

Emergency Lighting System For Hazardous Areas

Dimensions (inches)



Photometrics



Suggested Specification

General

The emergency lighting system shall be explosionproof and dust-ignitionproof, UL Listed (UL844) for Class I, Groups B, C, D; Class II, Groups E, F, G; and Class III. Power supply also shall be UL Listed as "Emergency Lighting and Power Equipment" (UL924). **System shall be rated 120, 220, 240, 277 VAC; with a 12 VDC output supply to the lamps.** Unit shall be furnished with a push-to-test switch and AC monitor pilot light as standard; and optional integral battery disconnect switch. All field connections to be made to a terminal block, also provided as standard. The emergency light system shall perform an automatic 30-second test and self diagnostic at least once every 30 days and provide visual indication of a potential fault.

Lighting Fixtures

Lighting fixtures shall be factory sealed and made of copper-free aluminum with corrosion resistant epoxy finish and gasketing as standard. Between the EVLA12 lamp heads and the ELPS50 power supply there is a factory installed seal. Conduit entry must be sealed within 18" of the power supply in accordance with the NEC. Fixtures shall be as furnished with 14 watt tungsten halogen lamps with faceted inner reflectors for beam direction, and shall be adjustable on two axes and capable of being locked in place. Fixtures shall be capable of being remote mounted. Fixtures shall be UL Listed (UL844) for Class I, Groups B, C, D; Class II, Groups E, F, G; and Class III applications. Fixtures shall also be UL Listed for 55ºC elevated ambient temperature for remote mounting applications.

Status Indication

LED Status	Condition	Meaning of the Indication
	No light	AC power is removed from the circuit
•	Steady light (no blinking)	Fully charged
•	Light blinks once	Charging
• •	Light blinks twice	Battery failure
• • •	Light blinks three times	Circuit failure
• • • •	Light blinks four times	Lamp failure

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