ELPS Light-Pak™ Emergency Lighting System

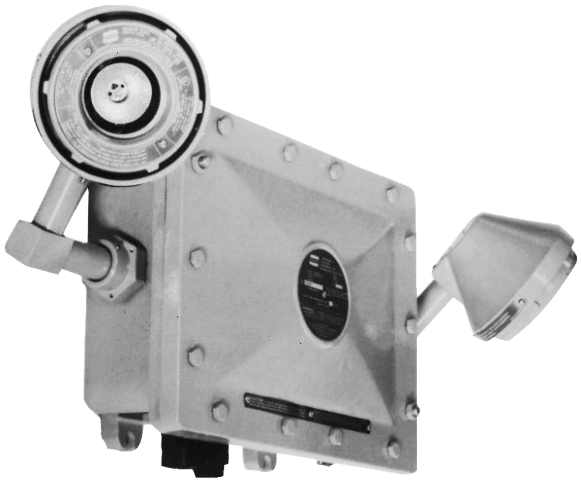
Cl. I, Div. 1 & 2; Groups C, D
Cl. I, Div. 1 & 2, Groups B, C, D (With suffix GB)
Cl. II, Div. 1; Groups E, F, G
Cl. III

Cl. I, Zone 1
Simultaneous Presence
Wet Locations
NEMA 3, 3R, 12

Application:

ELPS series emergency lighting systems are used:

- to provide safe, reliable illumination indoors or outdoors to designated areas during failure or interruption of power to the normal lighting system
- in areas made hazardous by the presence of flammable gases and vapors, combustible dusts or easily ignitible fibers and flyings
- in areas where corrosion, vibration, moisture, dirt and rough usage may be encountered
- where required by the National Electrical Code®, the Life Safety Code or other codes
- in refineries, chemical and petrochemical facilities, grain processing, handling or storage facilities, manufacturing plants, waste water treatment facilities and other areas where safe, reliable, hazardous area emergency lighting is needed



Features:

- Compact factory sealed luminaire assemblies are each furnished with a 14 watt tungsten-halogen lamp and inner reflector for appropriate photometrics in hazardous areas.
- Luminaire assemblies are fully adjustable and lockable on two axes to provide flexible and consistent light aiming capabilities.
- Luminaire lens ring is threaded for easy relamping and locks in place with hex head set screw; will not loosen due to vibration.
- Ground joint cover with external flange design permits large opening and easy access to internal components. Stud bolts in diagonally opposite corners of body ease cover removal and installation.
- Neoprene cover gasket seals out moisture for superior protection of internal components against wetness and corrosion.
- Light weight, compact size, and mounting feet ease installation and allow placement in confined areas.
- Two 1″ NPT drilled and tapped conduit openings, with plugs, are standard, for choice of top or bottom feed.
- Factory-installed PUSH-TO-TEST pushbutton enables easy testing of system.
- MAIN POWER ON pilot light indicates AC power is being supplied to the battery charger; pilot light jewel is threaded for easy lamp replacement.
- Stainless steel drain minimizes moisture collection. Stainless steel breather with aluminum cap provides ventilation, minimizes moisture collection.
- CID 101 corrosion inhibitor device is provided with each ELPS system to help protect electrical components and connections.
- Rugged, long-life, maintenance-free, nickel cadmium battery provides 30 watts of power for the required 1½ hours.
- Solid state battery charger for long life and reliable service prevents deep discharge by automatically disconnecting luminaires from battery.
- Terminal block facilitates field wiring connections.
- Instruction sheet and maintenance record card provided with unit in a protective plastic envelope.
- A time delay is standard; time delay is preset at factory for 5 minute delay but can be field set for 5 seconds or 15 minutes, thus allowing HID type lamps time to restrike and reach desired illumination levels.
- Solid state battery charger will accept 120, 220/240 or 277 VAC, 50/60 Hz.

Electrical Ratings:

- Power supply:
  Input: 120, 220/240, 277 VAC, 50 or 60 hertz
  0.5 Amps Maximum
  Output: 12 VDC
  UL listed for 30 watts for 1½ hours at 40°C
- Luminaires:
  Voltage: 12 VDC
  Lamp Type: #789, miniature tungsten halogen, G4, 2-pin, 14 watt.

Certifications and Compliances:

- NEC: Class I, Groups B (with GB suffix), C, D
  Class II, Groups E, F, G
  Class III
  Simultaneous Presence
- UL Standard:
  844 – Electric Luminaire – Hazardous Locations
  924 – Emergency Lighting and Power Equipment
  1203 – Explosionproof and Dust-Ignition-Proof Electrical Equipment
- Life Safety Code:
  Section 5-9 (Emergency Lighting)
- Suitable for Wet Locations
- NEMA 3, 3R, 12

Standard Materials:

- Power supply enclosure and luminaire assembly – copper-free aluminum (less than 0.4 of 1% copper)

Standard Finishes:

- Aluminum – gray powder epoxy finish

Ordering Information:

Description	Cat. #
Power supply with two luminaire assemblies	ELPS502
Luminaire assembly only	EVLA12
Power supply only.	ELPS50
Power Supply with 1-EVLA12 and Single Face Exit Sign with Red Letters. Exit Sign operates in emergency mode only.	ELPS502-EXS
Power Supply with 1-EVLA12 and Double Face Exit Sign with Red Letters. Exit Sign operates in emergency mode only.	ELPS502-EXD

Options:

Description	Suffix to be Added to Cat. No.
ELPS502 – suitable for Group B	GB
ELPS50 – suitable for Group B	GB
EVLA12 – suitable for Group B	GB
Integral Battery Disconnect Switch – disconnects luminaires from battery for added safety during maintenance	S794
Exit Sign with green letters.	GN
ELPS502 with Exit Sign EXS or EXD that operates in both normal & emergency mode.	S840

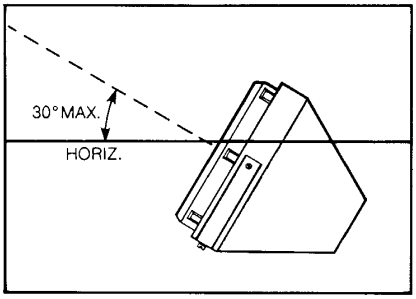
ELPS Light-Pak™ Emergency Lighting System

Temperature Performance Data
Photometric Data
Dimensions and Weights

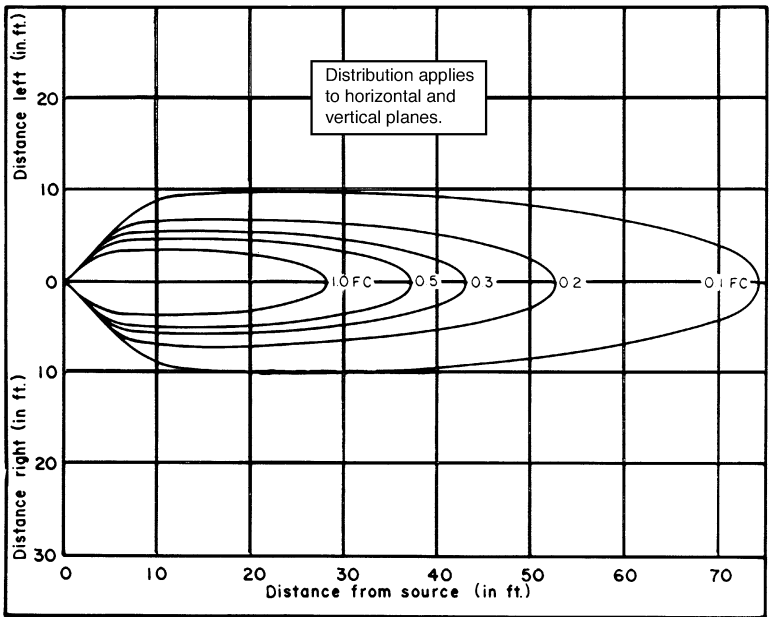
Temperature Performance Data:

Cat. No.	Max. Ambient °C	Class I	Class II, III Simultaneous Presence	Minimum Operating Temp.
ELPS Units	40°C	T4A	T3B (*see note)	0°C
EVLA12 Luminaire only	55°C	T4A	T3B (*see note)	Not Applicable

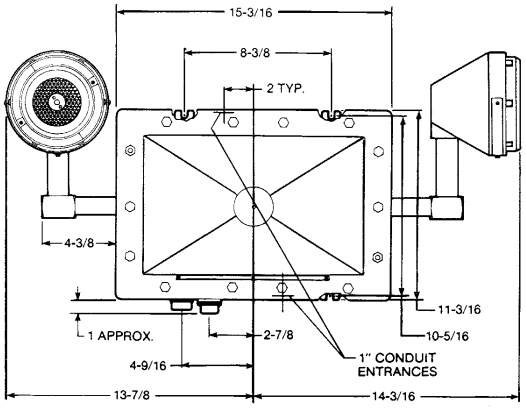
*NOTE: For Class II, Class III and simultaneous presence applications, luminaires must not be aimed more than 30° above horizontal (see diagram below)

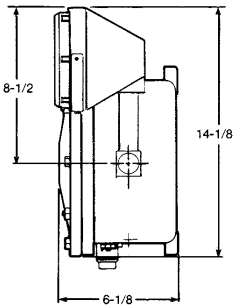


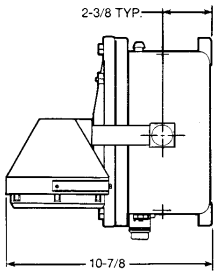
Isofootcandle Chart

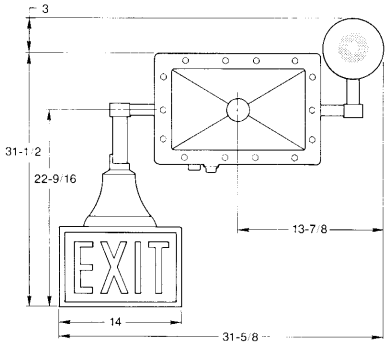


Dimensions









Unit Net Weights:

- ELPS502 complete emergency lighting system – 50 lbs.
- ELPS50 power supply – 40 lbs.
- EVLA12 luminaire assembly – 5 lbs.