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**Table 500-3(d)  
Identification Numbers.**

Maximum Temperature		Identification Number
Deg. C	Deg. F	
450	842	T1
300	572	T2
280	536	T2A
260	500	T2B
230	446	T2C
215	419	T2D
200	392	T3
180	356	T3A
165	329	T3B
160	320	T3C
135	275	T4
120	248	T4A
100	212	T5
85	185	T6

# 10L EXL Explosionproof Exit Sign Factory Sealed

Cl. I, Div. 1 & 2, Groups C, D  
Cl. I, Zone 1 IIB  
Cl. II, Div. 1, Groups E, F, G

## Application:

EXL exit signs are used:

- in locations deemed hazardous due to the presence of flammable vapors or gases, or combustible dusts
- in any building or enclosed area where people work – where illuminated exit signs are required
- to provide distinct, highly visible exit marking
- to indicate the direction of travel to exits

## Features:

- Two incandescent lamps (not included) wired in parallel – to provide extra margin of light source reliability
- Solid state circuit for extended lamp life in AC units
- Six inch red letters on white acrylic sign panel make word “exit” stand out boldly and clearly
- Edge lighting characteristic of sign panel makes visibility excellent at all lighting levels
- Factory sealed explosion-proof housing
- Pendant, wall and end bracket mounts provide universal installation options
- Impact-resistant acrylic sign panel needs no guard – makes cleaning easy
- Internal rectifier extends lamp life beyond 1,000-hour rated life – reduces relamping cost
- Relamping tool provided

## Standard Materials:

- Body – copper-free aluminum
- Sign panel – acrylic

## Conduit Entrance:

- 3/4" hubs

## Lamp Wattage:

- Two 60-watt, 60T10 clear lamps for AC units
- Two 25-watt, 25T10 clear lamps for DC units
- Lamps not included with luminaire

## Electrical Ratings:

- 120VDC or 120VAC operation.

## Certifications and Complies:

- NEC: Class I, Groups C and D  
Class II, Groups E, F, and G
- UL Standard: 844
- NFPA Life Safety Code No. 101-1991

## Temperature Performance

Data (for both AC & DC operation):

Ambient Temp (°C)	Class I (C,D) Class II (E,F,G)	Supply Wire °C
25	T3C	150°C
40	T3C	

## Ordering Information:

I. When ordering an EXL Series Exit Sign, you will need to specify:

- (A) Voltage (120VAC or 120VDC)
- (B) Mounting (Wall, End Bracket, or Pendant)
- (C) Exit Sign Designation

All units come standard with 3/4" hubs and exit signs with red lettering and white background. Complete catalog numbering is as follows:

### EXL (A) 2 (B) (C)

(A) Voltage: 120VAC . . . . . leave blank  
120VDC . . . . . D

(B) Mounting: Wall . . . . . 1  
End Bracket . . . . . 2  
Pendant . . . . . 3

### (C) Exit Sign Designation:

- A Single Face (Wall Mount)
- AA Double Face (End Bracket & Pendant)
- AB Double Face, one side arrowhead right, the other no arrowhead (End Bracket & Pendant)
- AC Double Face, one side arrowhead left, the other no arrowheads (End Bracket & Pendant)
- AD Double Face, one side arrowhead both ends, the other no arrowheads (End Bracket & Pendant)
- B Single Face, arrowhead right (Wall Mount)
- BC Double Face, one side arrowhead right, the other arrowhead left (End Bracket & Pendant)
- BD Double Face, one side arrowhead both ends, the other arrowhead right (End Bracket & Pendant)
- C Single Face, arrowhead left (Wall Mount)
- CD Double Face, one side arrowhead both ends, the other arrowhead left (End Bracket & Pendant)
- D Single Face, arrowhead both ends (Wall Mount)
- DD Double Face, both sides arrowhead both ends (End Bracket & Pendant)



Pendant Style



End Bracket Style



Wall Style

## Ordering Examples Table:

Mounting Type	Sign Panel Description	Hub Size	AC Cat. #	DC Cat. #
Wall	Single face	3/4	EXL21A	EXLD21A
End bracket	Double face	3/4	EXL22AA	EXLD22AA
Pendant	Double face	3/4	EXL23AA	EXLD23AA

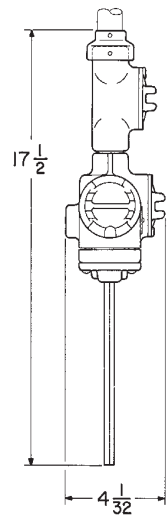
## Suffix Options:

Exit Signs with green lettering on white background . . . . . GN  
Unit Provided with Epoxy powder Coat . . . . . S752  
277VAC – (Order ECT413 Transformer Separately)

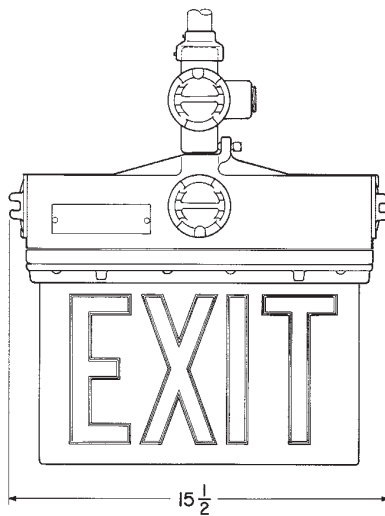
# EXL Explosionproof Exit Sign

10L

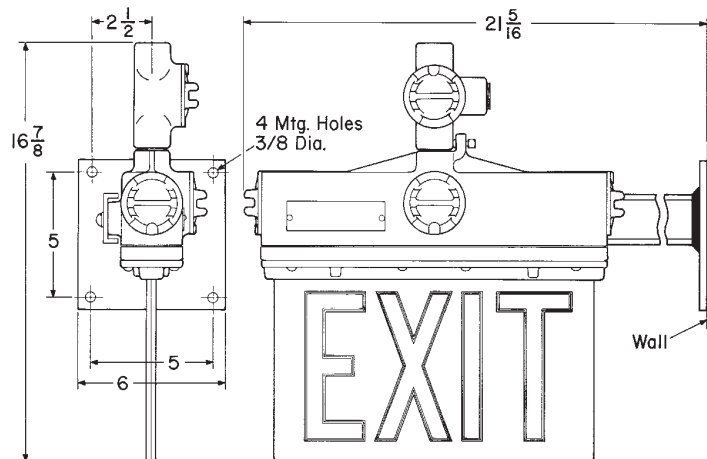
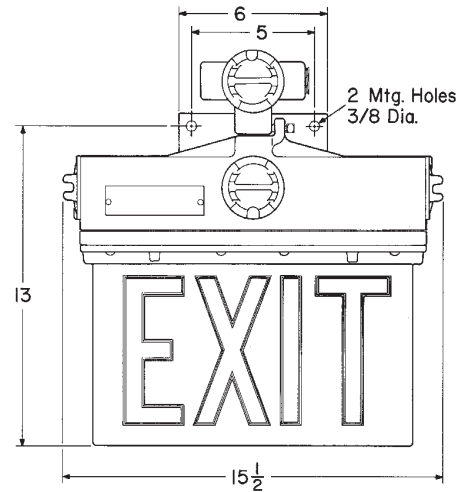
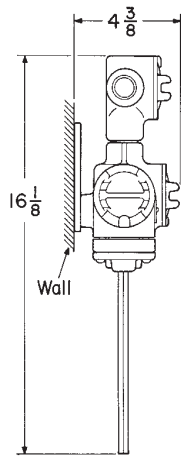
Factory Sealed  
Dimensions



Pendant Style



Wall Style



End Bracket Style

# 10L EVLPPF(B) - Exit Sign Fluorescent Luminaire

- Cl. I, Div 1, Groups B (suffix GB), C, D
- Cl. I, Zone 1, Groups IIB + H2 (GB suffix), IIB
- Cl. II, Div 1, Groups E, F, G; Class III, Simultaneous Presence
- Marine & Wet Locations
- 3, 3R, 4, 4X; IP66

## Application:

- EVLPPF(B)-EXD exit signs are used:
- in any building or enclosed area where people work - where illuminated exit signs are required
  - to provide distinct, highly visible exit marking
  - to indicate the direction of travel to exits
  - in locations deemed hazardous due to the presence of flammable vapours or gases, or combustible dusts

## Features - Benefits:

- Six inch red letters on white glass sign panel make the word "EXIT" stand out boldly and clearly
- Light weight copper-free aluminum housing with powdered epoxy finish
- All exterior hardware is corrosion-resistant stainless steel
- Three mounting arrangements pendant, ceiling and wall bracket
- Integral ballast
- High power factor (90%+) ballasts
- Easier assembly, installation and maintenance
- Outdoor, hose down, marine and corrosive environments suitable
- Ideal for adverse environments typical of industrial facilities
- Ground wire for safety
- Optional battery backup for operation during power outage

## About the battery:

- Bodine fluorescent battery pack ballasts are UL Component Recognized
- Sealed, maintenance-free, high-temperature nickel-cadmium
- Solid state chargers are sealed inside the ballast case
- 90 minute illumination time
- 10-year life expectancy
- 2-year full warranty
- During emergency use 1 lamp has continuous operation
- A red indicator light indicates the battery is charging
- Wiring instructions for a "Push-to-Test" button is supplied with the luminaire

## Standard Materials:

- Mounting modules, cover, ballast housing, globe holder – copper free aluminum
- Globe – heat and impact resistant glass
- Exterior hardware – stainless steel

## Standard Finishes:

Copper-free aluminum – *Corro-free™ powdered epoxy*

## Ratings (Electrical/Size):

Sources/wattage:

- 52W (2-26W lamps)
  - 120-277V, 50-60Hz
  - 120V, 60Hz
  - 347V, 60Hz
- Conduit entries:
- 3/4", 1" NPT – Pendant, Wall Bracket, Ceiling

## Energy Savings

- Less wattage used with compact fluorescent lamps compared to equivalent incandescent lamps providing the same light output

## Options:

Description	Suffix to be added to Cat. #
Group B suitability	GB
Factory assembled with lamps	FA



## Certification & Compliances:

- NEC and CEC:
  - Class I, Division 1, Groups B (GB suffix), C, D
  - Class I, Zone 1 Groups IIB + H2 (GB Suffix), IIB, IIA
  - Class II, Class III & Simultaneous Presence (Class I and Class II)
- UL Standards
  - 844 Hazardous (Classified) Locations
  - 1598 Luminaires
  - 1598A Marine Locations
- CSA Standards
  - C22.2 No. 137

## Ordering Information:

Mounting Type	Supply Voltage Volts/Hertz	Catalog Number	
		Fluorescent	Fluorescent with Battery Back-up
Pendant	120-277V / 50-60Hz	EVLPPFA02520/UNV-EXD	EVLPPFBA02520/UNV-EXD
	120V / 60Hz (Canada) 347V / 60Hz	EVLPPFA02520/347-EXD	EVLPPFBA0520/120CAN-EXD EVLPPFBA0520/347-EXD
Ceiling	120-277V / 50-60Hz	EVLPPFCX02520/UNV-EXD	EVLPPFBCX02520/UNV-EXD
	120V / 60Hz (Canada) 347V / 60Hz	EVLPPFCX02520/347-EXD	EVLPPFBCX02520/120CAN-EXD EVLPPFBCX02520/347-EXD
Wall	120-277V / 50-60Hz	EVLPPFBX02520/UNV-EXD	EVLPPFBBX02520/UNV-EXD
	120V / 60Hz (Canada) 347V / 60Hz	EVLPPFBX02520/347-EXD	EVLPPFBBX02520/120CAN-EXD EVLPPFBBX02520/347-EXD

# DMVF(B) - Exit Sign Fluorescent Luminaire

- Cl. I, Div. 2; Groups A, B, C, D
- Restricted Breathing Cl. I, Div. 2 & Zone 2 (Suffix S826)
- Certified for IEC Zone 2 (Suffix S826TB)
- Cl. II, Groups E, F, G, Cl. III & Simultaneous Presence
- Marine & Wet Locations
- 3, 3R, 4X; IP66

## Application:

DMVF(B) exit signs are used:

- in any building or enclosed area where people work.
- where illuminated exit signs are required.
- to provide distinct, highly visible exit markings.
- to indicate the direction of travel to exits.
- in locations deemed hazardous due to the presence of flammable vapors or gases, or combustible dusts.

## Features:

- Six inch letters on white glass sign panel make the word "exit" stand out boldly and clearly.
- Housings made of die-cast copper-free aluminum (less than 0.4 of 1% copper) for strength and resistance to corrosion).
- Mounting module equipped with integral hub set screws for vibration resistance (ceiling and pendant mounts).
- Hubs are provided with an integral conduit stop and bushing to help prevent damage to field wiring during installation.
- Epoxy powder finish and stainless steel external hardware for resistance to corrosion.
- Long life gaskets which provide seals between mounting module, housing, and globe assembly.
- Grounding wire for safety.
- Cool operating design.
- Optional emergency battery backup operation during power outage.

## About the battery:

- Bodine fluorescent battery pack ballasts are UL Component Recognized.
- Sealed, maintenance-free, high-temperature nickel-cadmium
- Solid state chargers are sealed inside the ballast case.
- 90 minute illumination time.
- 10-year life expectancy.
- 2-year full warranty.
- During emergency use, 1 lamp has continuous operation.
- A red indicator light indicates the battery is charging.
- Wiring instructions for a "Push-to-Test" button is supplied with the fixture.

## Energy Savings

- Less wattage used with compact fluorescent lamps compared to equivalent incandescent lamps providing the same light output.

## Standard Materials:

- Ballast housings and mountings - copper-free aluminum (less than 0.4 of 1%).
- Exterior hardware - stainless steel.
- Globe - heat and impact resistant internally fluted glass.

## Standard Finishes:

- Aluminum - gray epoxy powder coat.
- Krydon material - high reflectance white.
- Stainless steel - natural.

## Electrical Rating Ranges:

- 52 Watt.
- 120-277V, 50-60 Hz.
- 120V, 60 Hz.
- 347V, 60 Hz.

## Options:

### Description

- Lamps supplied with exit sign
- Top hat with stainless steel threaded insert.
- Restricted breathing construction.
  - Class I Division 2 & Zone 2 suitability.
  - Cooler operating temperatures (T -Numbers).
- Certified for IEC Zone 2 (Suffix S826TB).
  - Furnished with Terminal Block.
  - Crimp Terminals.
  - Dedicated voltage ballasts (no MT, DT or TT).

### Suffix added to Cat. No.

- S714
- S806
- S826

S826TB



## Certifications and Complies:

- **NEC and CEC:**
  - Class I, Division 2, Groups A, B, C, D
  - Class II, Class III & Simultaneous Presence (Class I Division 2 and Class II)
  - Class I Zone 2
- **IEC:**
  - Zone 2 Ex nR IIC
- **UL Standards:**
  - 844, 2279 Hazardous (Classified) Locations.
  - 1598 Luminaires.
  - 1598A Marine Luminaires.
- **CSA Standards:**
  - C22.2 No. 137
- **IEC Standards:**
  - 60079-15

## Ordering Information:

Mounting Type	Supply Voltage Volts/Hertz	Catalog Number	
		Fluorescent	Fluorescent with Battery Back-up
Pendant	120-277V / 50-60Hz	DMVF2A052G/UNV-EXD	DMVFB2A052G/UNV-EXD
	120V / 60Hz (Canada) 347V / 60Hz	DMVF2A052G/347-EXD	DMVFB2A052G/120CAN-EXD DMVFB2A052G/347-EXD
Ceiling	120-277V / 50-60Hz	DMVF2C052G/UNV-EXD	DMVFB2C052G/UNV-EXD
	120V / 60Hz (Canada) 347V / 60Hz	DMVF2C052G/347-EXD	DMVFB2C052G/120CAN-EXD DMVFB2C052G/347-EXD
Wall	120-277V / 50-60Hz	DMVF2TW052G/UNV-EXD	DMVFB2TW052G/UNV-EXD
	120V / 60Hz (Canada) 347V / 60Hz	DMVF2TW052G/347-EXD	DMVFB2TW052G/120CAN-EXD DMVFB2TW052G/347-EXD



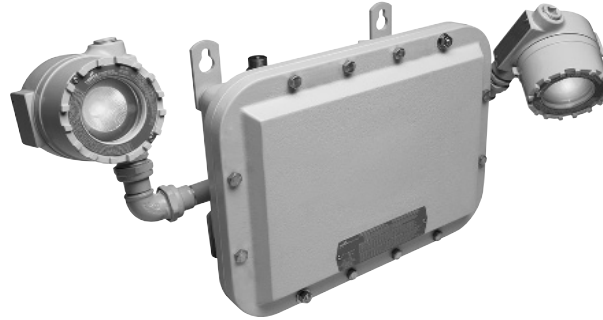
## Application:

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 ignitable 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 12 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 28 watts for 1½ hours at 0° – 40°C
- Luminaires:  
Voltage: 12 VDC  
Lamp Type: #789, miniature Tungsten halogen, G4, 2-pin, 14 watt.

## Certifications and Complies:

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

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

## Standard Materials:

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

## Standard Finishes:

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

## Ordering Information:

CATALOG NUMBER	DESCRIPTION
ELPS502*	Standard unit with adjustable heads
ELPS-K50	Replacement power interior, includes circuit board 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, <b>single or double</b> sided with Group B EVA, red letters
ELPS502-EXD GB GN	Exit sign, <b>single or double</b> 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.

## 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

## Temperature Performance Data:

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

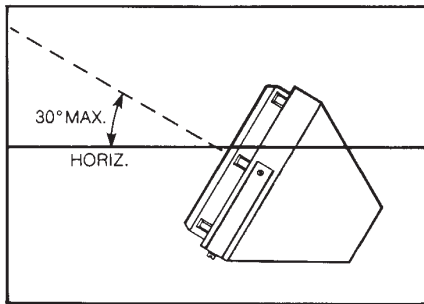
EVLA12 Temperature Codes (T-numbers):

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

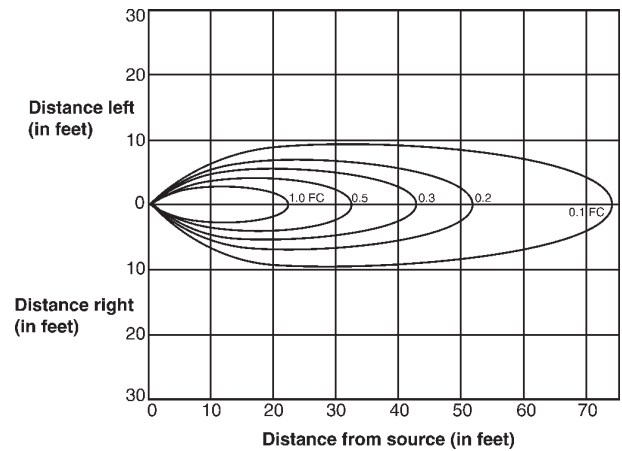
\* For Class II and Class III applications, fixtures must not be aimed more than 30° above horizontal (see diagram below).

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

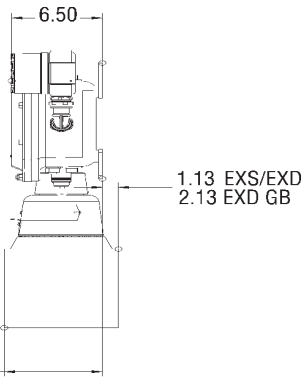
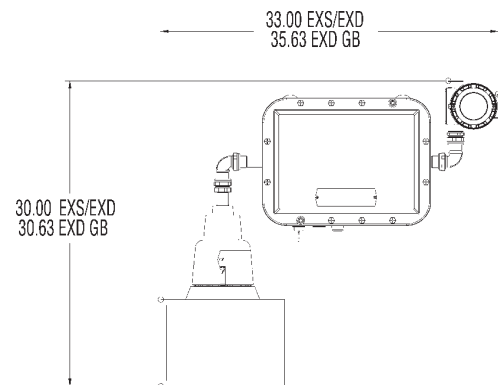
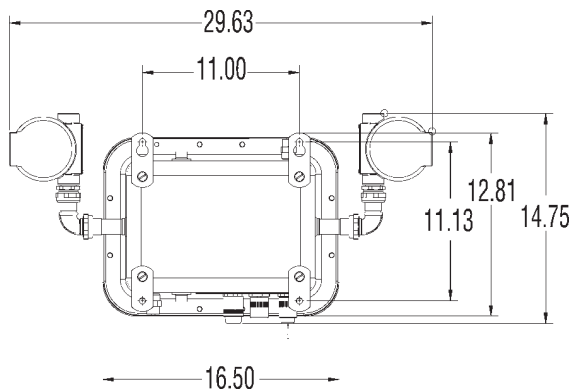
- Class I—T4
- Class II—T3C



## Photometric Data:



## Dimensions



7.00 EXS/EXD  
8.38 EXD GB

## Unit Net Weights:

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

## 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

# 10L LIGHT-PAK™ N2LPS Emergency Lighting System

Cl. I, Div. 2, Groups B, C, D  
 Class I, Zone 2  
 Wet Locations  
 NEMA 3, 3R

## Application:

Light-Pak N2LPS emergency lighting systems are used:

- to provide reliable illumination for egress areas during failure or interruption of power to the normal lighting system
- in areas where flammable gases or vapors may become present due to abnormal, unusual, or accidental conditions
- in manufacturing plants, refineries, petrochemical and chemical plants, waste and sewage treatment facilities, oil terminals, food processing facilities, breweries, and other industrial manufacturing or process industry facilities subject to wet or corrosive conditions
- to illuminate machinery or panels during a loss of AC power
- where moisture, dirt, dust, or corrosion will limit the life and reliability of ordinary emergency lighting systems
- where required by the National Electrical Code®, the Life Safety Code® or other applicable codes
- Outdoor applications

## Features:

- Compact factory assembled system with two 8 watt sealed beam halogen lamps.
- Nonmetallic, enclosed and gasketed construction; a CID101 corrosion inhibitor device is also included.
- Solid state battery charger will accept 120, 220, and 277 VAC, 50/60 Hz.
- 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.
- "Push-to-Test" button and "Main Power On" pilot light are conveniently located on side of system.
- Sealed, lead calcium battery(ies); one battery supplies 28 watts of power (two batteries 56 watts) for 1½ hrs.
- Luminaire heads constructed of rugged Noryl® thermoplastic material with nylon and plastic coated hardware.
- Cover has six captive stainless steel screws; factory installed ¾" conduit hub opening is standard, located on top of system.
- Remote luminaire head assemblies (one or two) are available for mounting of luminaire heads away from main power supply system.

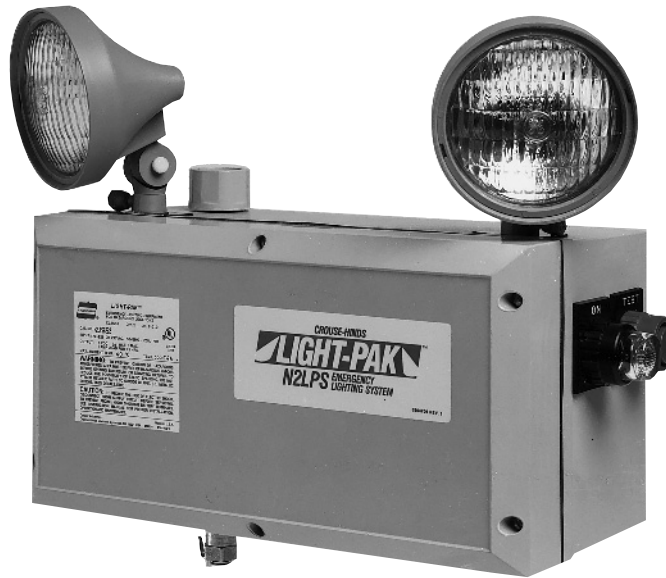
## Temperature Performance

**Data:** (based on 40°C ambient)

Cat. #	Class I, Division 2
N2LPS (all)	T4A
N2RF (all)	T5

(NOTE: Ambient temperature at which the Light-Pak system is rated is 0°C (32°F) to 40°C (104°F). Lower ambient temperatures will reduce battery capacity.)

National Electrical Code and Life Safety Code are registered trademarks of the National Fire Protection Association, Inc.  
 Noryl is a registered trademark of General Electric Company.



## Standard Materials:

- Power supply and remote luminaire enclosures – Krydon® fiberglass-reinforced polyester
- Luminaire heads – Noryl® thermoplastic
- Exterior hardware – Nylon, plastic coated, and stainless steel
- Cover gasket – Hypalon® synthetic rubber

## Electrical Ratings:

- Power supply – Input: 120, 220, or 277 VAC, 50 or 60 Hz; 25 watts max.  
 Output: 6 VDC;  
 N2LPS6222, N2CPS6220 – 28 watts for 1½ Hrs.  
 N2LPS6422, N2LPS6420 – 56 watts for 1½ Hrs.
- Luminaires – Voltage: 6 VDC; Lamp type: 8 watt, tungsten halogen PAR36 sealed beam (General Electric #H7551)

## Certifications and Compliances:

- NEC – Class I, Division 2, Groups B,C,D
- UL Standards: 924 (Emergency Lighting and Power Equipment); 844 (Electric Luminaires Hazardous Locations)
- Life Safety Code NFPA101® – Section 5-9 (Emergency Lighting)
- Wet Locations Suitability

## Unit Net Weights:

- N2LPS6222 – 16 lbs.
- N2LPS6422 – 21 lbs.
- N2LPS6220 – 12 lbs.
- N2LPS6420 – 17 lbs.
- N2RF621 – 6 lbs.
- N2RF622 – 8 lbs.

## Ordering Information:

Description	Cat. #
28 watt, 6 volt output power supply with two 8 watt tungsten halogen luminaires . . . . .	N2LPS6222
56 watt, 6 volt output power supply with two 8 watt tungsten halogen luminaires . . . . .	N2LPS6422
28 watt, 6 volt output power supply only (less luminaire heads) . . . . .	N2LPS6220
56 watt, 6 volt output power supply only (less luminaire heads) . . . . .	N2LPS6420
Remote luminaire assembly with one 8 watt luminaire head	N2RF621
Remote luminaire assembly with two 8 watt luminaire heads . . . . .	N2RF622
Remote luminaire assembly with one 12 watt 6 volt lamp for mounting in Class 1, Division 1, Group C and D areas . . . . .	EVLA126
Power supply with two 8 watt tungsten halogen luminaires and single face exit sign. Exit sign operates in emergency mode only. . . . .	N2LPS6422-EXS
Power supply with two 8 watt tungsten halogen luminaires and double face exit sign. Exit sign operates in emergency mode only. . . . .	N2LRS6422-EXD

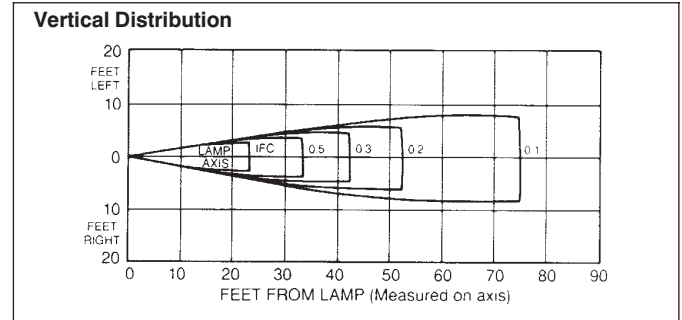
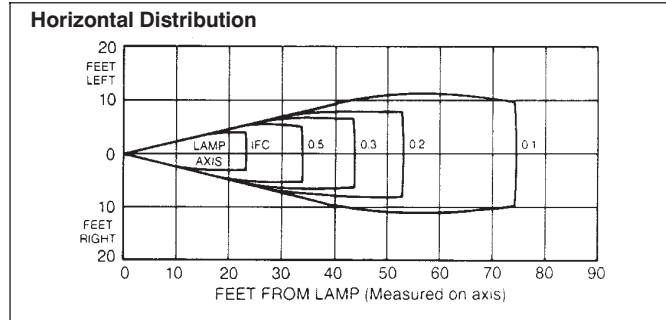
## Option:

Description	Suffix to be Added to Cat. #
N2LPS6422 with exit sign EXS or EXD that operates in both normal and emergency mode. . . . .	S840



## Photometric Data:

### Isofootcandle Chart



## Wire Sizing for Remote Installation:

### For Copper Wire –

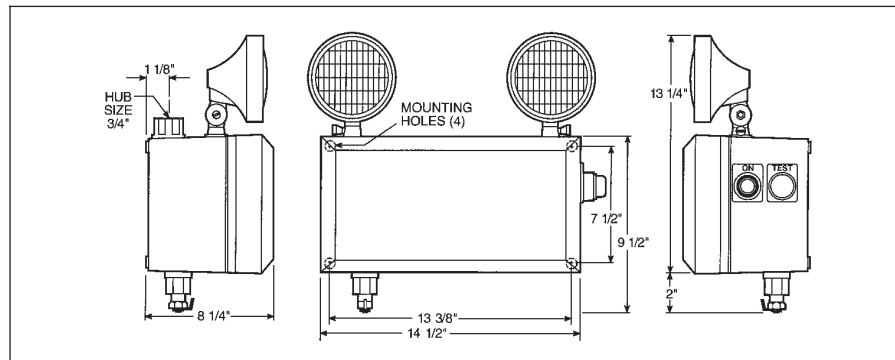
Running Distance\* (ft.) Between Power Supply and Remote Luminaire

Wire Size	Load In Watts			
	8	16	24	32
16 AWG	26	13	6	3
14 AWG	42	21	10	5
12 AWG	66	33	16	8

Wire Size	Load In Watts			
	8	16	24	32
10 AWG	106	53	26	13
8 AWG	168	84	42	21
6 AWG	270	135	67	33

\* Maximum distance to limit line voltage drop to 5%.

## Dimensions (N2LPS):



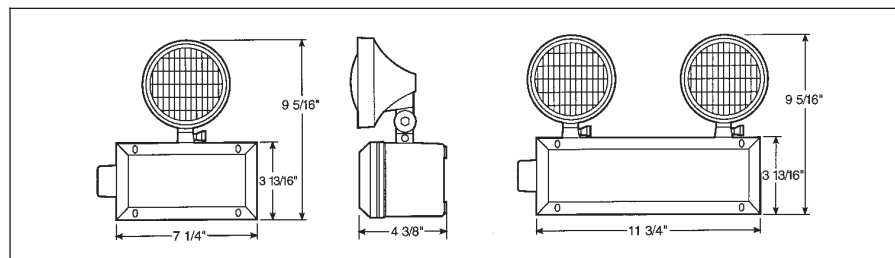
## Weights:

Description	Weight
N2LPS6222 (28 watt system)	16 lbs.
N2LPS6422 (56 watt system)	21 lbs.

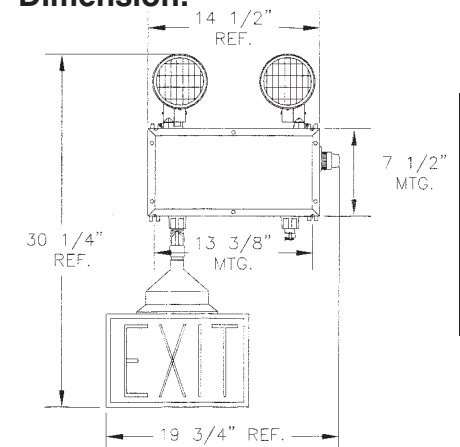
## Weights:

Description	Weight
N2RF621 (8 watt)	6 lbs.
N2RF622 (16 watt)	8 lbs.

## Dimensions – Remote Luminaires (N2RF621 – N2RF622)



## Dimension:



# 10L

## CPMVFB Emergency Compact Fluorescent

### Continuous Operation Champ-Pak™ Luminaires

- Cl. I, Div. 2, Groups A, B, C, D
- Restricted Breathing Cl. I, Div 2 & Zone 2 (Suffix S826)
- Certified for IEC Zone 2 (Suffix S826TB)

- Cl. II Groups E, F, G, Cl. III & Simultaneous Presence \*
- Marine & Wet Locations
- 3, 3R, 4, 4X; IP66
- Emergency Lighting

#### Application:

- where emergency lighting is required to permit workers in industrial areas to safely encounter their surroundings during power failures
- where emergency egress lighting is required, such as: catwalks, walkways, tunnels, doorways, stairs, stairwells, ramps and aisles
- indoor and outdoor wall mounting or vertical surface mounting where minimal luminaire depth is required in:
  - Manufacturing plants and heavy industrial facilities
  - Industrial process facilities such as refineries, chemical, petrochemical, pharmaceutical and platforms
  - Waste or sewage treatments plants
  - Offshore, dockside and harbor installations
- For security and safety lighting in industrial facilities for lighting of loading docks, tunnels and stairways
- For marine, wet location, hosedown and corrosive environments

#### Features & Benefits:

- Unique compact shallow-profile design mounts virtually anywhere
- Side hinged cover with two screw closing for easy installation and maintenance
- Gray Corro-free™ epoxy powder coat two-piece housing provides superior corrosion resistance
- Unique stainless steel wire guard accessory attaches without any additional hardware for easy installation and maintenance
- Glass refractor provides uniform light distribution to eliminate glare
- Silicon gaskets make luminaire suitable for NEMA 4X, Marine environments
- High power factor ballasts (+90%) are standard, which allow more luminaires per circuit

#### Standard Materials:

- Luminaire housing and door frame assembly - copper-free aluminum
- External hardware - stainless steel
- Lens - heat and impact-resistant refractor style glass
- Gaskets - silicon rubber
- Reflector - aluminum light sheet
- Wire guard - stainless steel

#### Standard Finishes:

- Aluminum - Corro-free™ epoxy powder coat
- Stainless steel - natural

\* Consult Cooper Crouse-Hinds

#### Certifications and Compliances:

- NEC and CEC:
  - Class I, Division 2, Groups A, B, C, D
  - Class II, Class III & Simultaneous Presence (Class I Division 2 and Class II)
  - Class I Zone 2
- IEC:
  - Zone 2 Ex nR IIC
- UL Standards
  - 844, 2279 Hazardous (Classified) Locations
  - 1598 Luminaires
  - 1598A Marine Locations
- CSA Standards
  - C22.2 No. 137
- IEC Standards
  - 60079-15



#### About the battery:

- Bodine fluorescent battery pack ballasts are UL Component Recognized
- Sealed, maintenance-free, high-temperature nickel-cadmium
- Solid state chargers are sealed inside the ballast case
- 90 minute illumination time
- 10-year life expectancy
- 2-year full warranty
- During auxiliary use 1 lamp has continuous operation
- A red indicator light indicates the battery is charging
- Wiring instructions for a "Push-to-Test" button is supplied with the fixture

#### Electrical Rating Ranges:

- 52 watts
- 120-277V, 50-60Hz
- 120V, 60Hz
- 347V, 60Hz

#### Options:

Restricted Breathing Construction	
Class I Division 2 & Zone 2 Suitability	
Cooler Operating Temperatures (T-numbers)	
Certified for IEC Zone 2 (Suffix S826TB)	S826TB
Furnished with	
Terminal Block	
Crimp Terminals	
Dedicated voltage ballasts (no MT, DT or TT)	
Factory Assembled with Lamp installed	FA
Fused - projects ballast and capacitors against abnormal line conditions	S658†
(Not for use in Canada)	
(Not for Marine use)	

**Suffix to be added to Cat. #**  
S826

S826TB

FA  
S658†

#### Accessories:

Stainless Steel Wire Guard

**Cat. #**  
P55

† When ordering fuses for luminaires, option S658, you must specify the operating voltage. S658 cannot be ordered with /MT in the catalog number.

# CPMVFB Emergency Compact Fluorescent

Ordering Information  
Dimensions & Weights

10L

## Continuous Operation Champ-Pak™ Luminaires

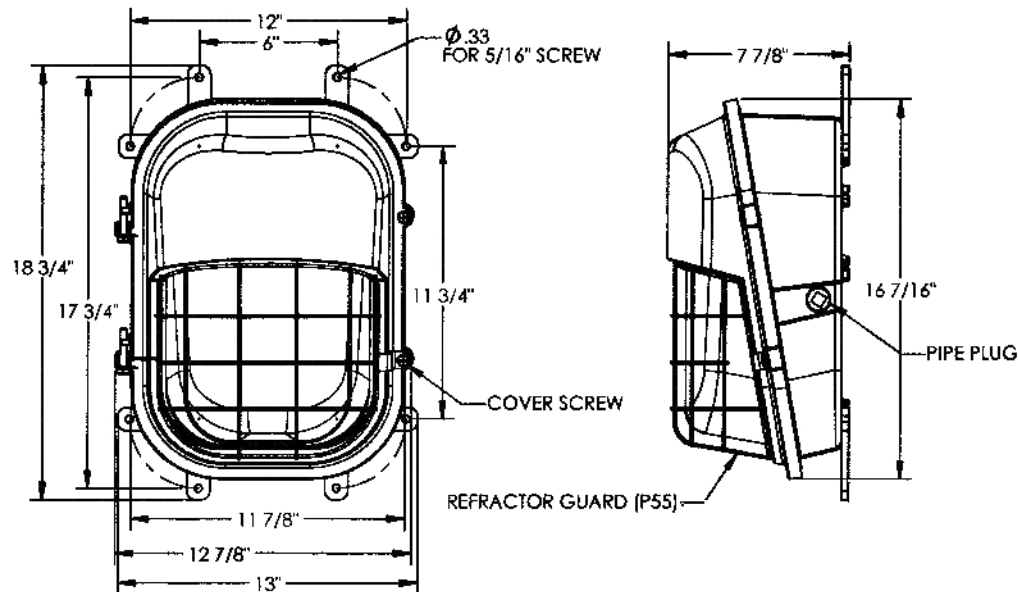
### Ordering Information:

Hub Size	Lamp Watts	Catalog Number for use with ANSI Lamps
3/4NPT	26	CPMVFB2W026

### Standard Voltage Ballasts

	NEC/UL	CEC/CSA (cUL)	
Voltage	120-277V 50-60Hz	120V/60Hz	347V 60Hz
Suffix	/UNV	/120CAN	/347

### Dimensions (Inches):



### Net Weight:

Luminaire Less Guard	18.6 Lbs.
P55 Guard	0.5 Lbs.

10L  
Emergency  
Lighting

# 10L DMVFB Emergency Compact Fluorescent Continuous Operation Champ® Luminaires

- Cl. I, Div. 2, Groups A, B, C, D
- Restricted Breathing Cl. I, Div. 2 & Zone 2 (Suffix S826)
- Certified for IEC Zone 2 (Suffix S826TB)

- Cl. II Groups E, F, G, Cl.III & Simultaneous Presence
- Marine & Wet Locations
- 3, 3R, 4, 4X; IP66
- Emergency Lighting

## Application:

DMVFB series Champ lighting luminaires are used:

- where emergency lighting is required to permit workers in industrial areas to safely encounter their surroundings during power failures.
- Where emergency egress lighting is required, such as: catwalks, walkways, tunnels, doorways, stairs, stairwells, ramps, and aisles.
- in areas made hazardous by abnormal conditions resulting in the presence of flammable vapors or gases.
- in areas made hazardous by the presence of combustible dusts.
- where combustible dusts and flammable vapors are present simultaneously.
- in marine applications where water spray and corrosive atmospheres are considerations.
- on installations where vibration and rough usage are problems.
- where a cool, efficient light source is required.
- in areas that require lamps to reach full illumination immediately.
- in refineries, chemical and petrochemical facilities, grain processing, handling or storage facilities, manufacturing plants waste water treatment plants sewage treatment plants, oil terminals, food processing facilities, breweries, and any other manufacturing or processing facility where safe, reliable, hazardous area fluorescent or auxiliary lighting is needed.

## Standard Features:

- Housings made of die-cast copper-free aluminum (less than 0.4 of 1% copper) for strength and resistance to corrosion.
- Mounting modules equipped with integral hub set screws for vibration resistance (ceiling, pendant, and quad mounts).
- Hubs are provided with an integral conduit stop and bushing to help prevent damage to field wiring during installation.
- Epoxy powder finish and stainless steel external hardware for resistance to corrosion.
- Long-life gaskets which provide seals between mounting module, housing, and optical assembly.
- Grounding wire for safety.
- Cool operating design.
- Optional stainless steel open bottom guard permits direct access to the globe for easy relamping.
- Battery pack ballast for emergency lighting.

## Energy Savings

- Less wattage used with compact fluorescent lamps compared to equivalent incandescent lamps providing the same light output.

## About the battery: (DMVFB Units)

- Bodine fluorescent battery pack ballasts are UL Component Recognized.
- Sealed, maintenance-free, high-temperature nickel-cadmium
- Solid state chargers are sealed inside the ballast case.
- 90 minute illumination time
- 10-year life expectancy
- 2-year full warranty
- During auxiliary use 1 lamp has continuous operation
- A red indicator light indicates the battery is charging.
- Wiring instructions for a "Push-to-Test" button is supplied with the luminaire.

## Standard Materials:

- Ballast housings and mountings – copper-free aluminum (less than 0.4 of 1%).
- Exterior hardware and guards – stainless steel.
- Reflectors – Krydon® fiberglass-reinforced polyester material.
- Globe – heat and impact resistant internally fluted glass.

## Standard Finishes:

- Aluminum – gray epoxy powder coat.
- Krydon material – high reflectance white.
- Stainless steel – natural.

## Electrical Rating Ranges:

- 52 and 64 watts
- 120-277V, 50-60 Hz
- 347V, 60 Hz

## Certifications and Compliances:

- NEC/CEC:
  - Class I, Division 2, Groups A, B, C, D
  - Class II, Class III & Simultaneous Presence (Class I Division 2 and Class II)
  - Class I Zone 2 Emergency Lighting
- IEC
  - Zone 2 Ex nR IIC
- UL Standards
  - 844, 2279 Hazardous (Classified) Locations
  - 1598 Luminaires
  - 1598A Marine Locations
  - 924 Emergency Lighting
- CSA Standards
  - C22.2 No. 137
- IEC Standards
  - 60079-15



## Options:

### Description

- Restricted Breathing Construction - Class I Division 2 & Zone 2 Suitability - Cooler Operating Temperatures (T-Numbers) **S826**
- Certified for IEC Zone 2 (Suffix S826TB) - Furnished with Terminal Block Crimp Terminals **S826TB**

Suffix to be added to Cat. No.

- Emergency Operation only

Consult Crouse-Hinds

- Factory Assembled with lamps installed for additional labor savings . . . . . add suffix **FA**.
- Fused – to protect ballast against abnormal line conditions (not for use in Canada) (not for Marine use) . . . . . add suffix **S658.\***
- Lamps supplied with luminaire . . . add suffix **S714**.
- Top hat with stainless steel threaded insert to attach ballast housing . . . . add suffix **S806**.
- TEFLON® coating on globe for increased shatter protection . . . . . add suffix **S808**.

## Accessories:

- (Order separately)
- Dome Cat. # RD739
  - 30° Angle Cat. # RA739

\* When ordering fuses for luminaires, option S658, you must specify the operating voltage. S658 cannot be ordered with /MT in the catalog number.

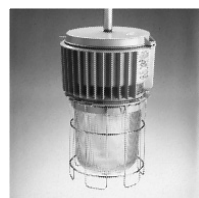
# DMVFB Emergency Compact Fluorescent

## Continuous Operation Champ® Series Luminaires

- Cl. I, Div. 2, Groups A, B, C, D
- Restricted Breathing Cl. I, Div 2 & Zone 2 (Suffix S826)
- Certified for IEC Zone 2 (Suffix S826TB)
- Cl. II Groups E, F, G, Cl. III & Simultaneous Presence
- Marine & Wet Locations
- 3, 3R, 4, 4X; IP66
- Emergency Lighting

10L

### DMVFB Series Fluorescent with Battery Back-Up with G303 Globe and P33 Guard



Mounting Style	Hub Size	Lamp Watts	Cat. No.
Pendant Mount	3/4	52	DMVFB2A052GP
	1		DMVFB3A052GP
	3/4	64	DMVFB2A064GP
	1		DMVFB3A064GP



Flexible Pendant Mount	3/4	52	DMVFB2HA052GP
	3/4	64	DMVFB2HA064GP



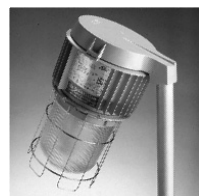
Ceiling Mount Thru-Feed	3/4	52	DMVFB2C052GP
	1		DMVFB3C052GP
	3/4	64	DMVFB2C064GP
	1		DMVFB3C064GP



Wall Mount Thru-Feed	3/4	52	DMVFB2TW052GP
	1		DMVFB3TW052GP
	3/4	64	DMVFB2TW064GP
	1		DMVFB3TW064GP



Quad-Mount	3/4	52	DMVFB25Q052GP
	3/4	64	DMVFB25Q064GP
Pendant, Adjustable Thru-Feed, 25° Angle, 12-1/2° Angle			



Stanchion Mount	1-1/2	52	DMVFBJ052GP
	1-1/2	64	DMVFBJ064GP



Stanchion Mount	1-1/2	52	DMVFBP052GP
	1-1/2	64	DMVFBP064GP

**Note: For technical information on family trees, temperature performance data, dimensions, weights, and photometrics, refer to DMVF Series in Section 6L.**

NOTES:  
1. Catalog numbers are basic numbers. **Voltage must be specified.**

#### Standard Voltage Ballasts

Voltage Suffix	NEC/UL		CEC/CSA (cUL)	
	120-277V 50-60Hz /UNV		120V/60Hz /120CAN	347V 60Hz /347

10L  
Emergency Lighting



# EVLPFB Emergency Compact Fluorescent Continuous Operation Low Profile Luminaires

- Cl. I, Div. 1, Groups B (GB Suffix), C, D
- Cl. I, Zone 1, Groups IIB + H2 (GB suffix), IIB, IIA
- Cl. II, Div. 1, Groups E, F, G; Class III, Simultaneous Presence
- Marine & Wet Locations
- 3, 3R, 4, 4X; IP66
- Emergency Lighting

## Application:

Cooper Crouse-Hinds Low Profile Hazard\*Gard® luminaires are used in:

- areas that require lamps to reach full lumination immediately.
- where emergency lighting is required to permit workers in industrial areas to safely encounter their surroundings during power failures.
- where emergency lighting is required such as: catwalks, walkways, tunnels, doorways, stairs, stairwells, ramps and aisles.
- areas where flammable or explosive vapors or gases are present
- hazardous areas, both indoors and outdoors, where long life and low maintenance costs are desired
- petroleum refineries, chemical, petrochemical and pharmaceutical plants, oil terminals, gas plants and other heavy process industry facilities
- waste treatment facilities
- drilling platforms and other coastal and offshore hazardous areas

## Features - Benefits:

- Small compact size
- Two start Acme threaded construction
- Easier assembly, installation and maintenance
- Light weight copper-free aluminum housing with powdered epoxy finish
- All exterior hardware is corrosion-resistant stainless steel
- Four mounting arrangements pendant, ceiling, wall bracket and stanchion
- Integral ballast
- High power factor (90%+) ballasts
- Uses same mounting modules as the standard Hazard\*Gard®
- Internally fluted glass globes
- Krydon® construction dome and angle reflectors – won't rust, corrode, dent, chip or peel
- Now available in components – luminaire body, mounting module, guard, reflectors
- Three wire construction
- For energy conservation, luminaires can be switched off without affecting the emergency operation feature

## Standard Materials:

- Mounting modules, cover, ballast housing, globe holder – copper free aluminum
- Globe – heat and impact resistant glass
- Exterior hardware – stainless steel
- Reflectors (dome & angle) – Krydon™ fiberglass-reinforced polyester

## Energy Saving:

- Less wattage used with compact fluorescent lamps compared to equivalent incandescent lamps providing the same light output.



## Standard Materials:

- Mounting modules, cover, ballast housing, globe holder – copper free aluminum
- Globe – heat and impact resistant glass
- Exterior hardware – stainless steel
- Reflectors (dome & angle) – Krydon™ fiberglass-reinforced polyester

## Standard Finishes:

- Copper-free aluminum – *Corro-free™ powdered epoxy*
- Krydon – *white*
- Stainless steel guard

## Ratings (Electrical/Size):

Sources/wattage:

- Fluorescent continuous operation
- Emergency Lighting 52W (2-26W lamps) and 64W (2-32W lamps) Compact fluorescent

Voltages:

- Fluorescent Emergency Lighting
  - 120-277V, 50-60 Hz
  - 120V, 60 Hz
  - 347V 60Hz

Conduit entries:

- ¾", 1" NPT – pendant, wall bracket, ceiling
- 1¼" NPT – stanchion

## Options:

Description	Suffix to be added to Cat. #
Group B suitability	GB
Fused (not for use in Canada) (not for Marine use)	S658*
Factory assembled with lamps	FA
Emergency Operation only	Consult Cooper Crouse-Hinds

## Accessories:

Description	Cat. #
Dome reflector	RD739
Angle reflector	RA739

## About the Battery

- Bodine fluorescent battery pack ballasts are UL Component Recognized.
- Sealed, maintenance-free, high-temperature nickle-cadmium.
- Solid state chargers are sealed inside the ballast case.
- 90 minute illumination time.
- 10-year life expectancy
- 2-year warranty.
- During emergency use, 1 lamp has continuous operation.
- A red indicator light indicates the battery is charging.
- Wiring instructions for a "Push-to-Test" button is supplied with the fixture.

## Certification & Compliances:

- NEC and CEC:
  - Class I, Division 1, Groups B (with GB suffix), C, D
  - Class I, Zone 1 Groups IIB + H2 (GB Suffix), IIB, IIA
  - Class II, Class III & Simultaneous Presence (Class I and ClassII)
- Emergency Lighting
- UL Standards
  - 844 Hazardous (Classified) Locations
  - 1598 Luminaires
  - 1598A Marine Locations
  - 924 Emergency Lighting
- CSA Standards
  - C22.2 No. 137

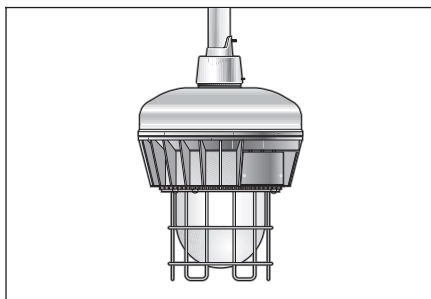
\* When ordering fuses for luminaires, option S658, you must specify the operating voltage. S658 cannot be ordered with /MT in the catalog number.

# EVL PFB Emergency Compact Fluorescent

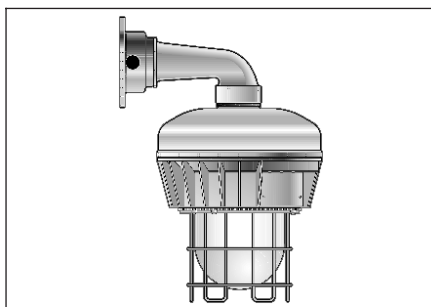
Continuous Operation  
Low Profile Luminaires

- Cl. I, Div. Groups B (GB suffix), C, D
- Cl. I, Zone 1, Groups IIB + H2 (with Suffix GB), IIB, IIA
- Cl. II, Div 1, Groups E, F, G; Class III, Simultaneous Presence
- Marine & Wet Locations
- 3, 3R, 4, 4X; IP66
- Emergency Lighting

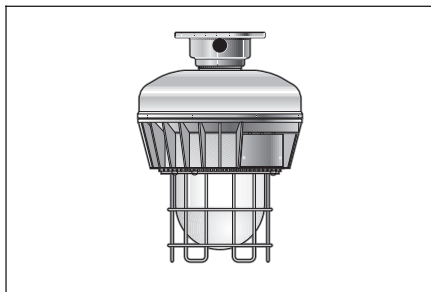
## Ordering Information



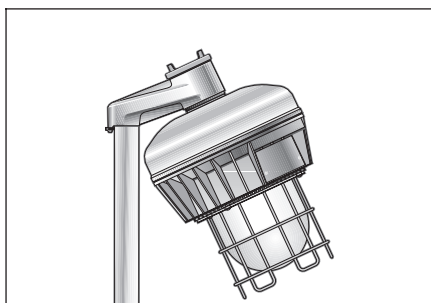
Pendant Mount



†Wall Bracket Mount



†Ceiling Mount



Stanchion Mount

†Ceiling and bracket mounts have 4 hubs: 3 are plugged.

		Pendant		Wall Bracket†	Ceiling†	Stanchion	Luminaire Body Less Mounting Module & Guard
Watt	Hub Size	With Guard Catalog #	With Guard Catalog #	With Guard Catalog #	With Guard Catalog #	With Guard Catalog #	Catalog #
<b>Fluorescent with Emergency Ballast – High Power Factor Ballast (Min. P.F. 90%)</b>							
52W	¾	EVL PFB A02521	EVL PFB B X02521	EVL PFB C X02521			EVL PFB 0520
	1	EVL PFB A03521	EVL PFB B X03521	EVL PFB C X03521			
	1¼					EVL PFB J04521	
64W	¾	EVL PFB A02641	EVL PFB B X02641	EVL PFB C X02641			EVL PFB 0640
	1	EVL PFB A03641	EVL PFB B X03641	EVL PFB C X03641			
	1¼					EVL PFB J04641	

### Complete Catalog Numbers as follows:

Voltage Suffix	Standard Voltage Ballasts		
	NEC/UL	CEC/CSA (cUL)	
	120-277V 50-60Hz /UNV	120V/60Hz /120CAN	347V 60Hz /347

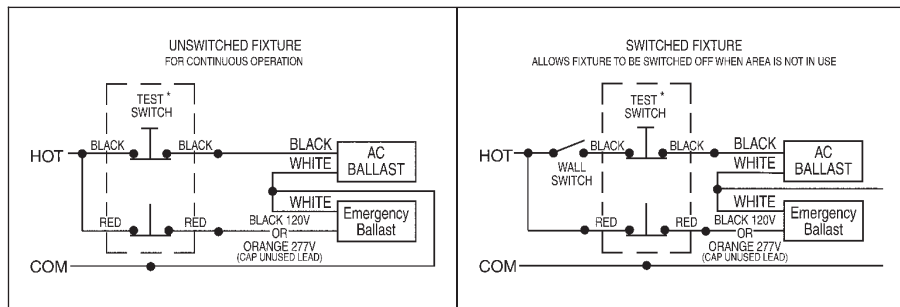
Example: EVL PFB 02521/UNV

2. Other Voltages - Consult Cooper Crouse-Hinds

**Note: For technical information on family trees, temperature performance data, dimensions, weights, and photometrics, refer to DMVF Series in Section 5L.**

### EVFPFB Fluorescent Emergency Lighting

- Three wire construction, for switching purposes, is standard on Fluorescent Emergency Lighting.
- For energy conservation, luminaires can be switched off without affecting the emergency operation feature.



\* Test Switch is remote mounted.  
Use Cooper Crouse-Hinds EDSC218 (Not furnished).