

# CALRAD

## 90 Series - L.E.D. Lamps



90-697-PMB

### 90-697 8 POSITION L.E.D. LAMP

Flexible 12" gooseneck with sturdy removable base assembly. Over 50 year average lamp life. Smooth adjustable brightness control with precise regulation circuitry. L.E.D lamps produce pure white light for easy reading, the lamp assembly never gets hot. Perfect for A/V Mixing Consoles, or any area that needs illumination. Detachable 9V power supply for easy wire routing. Includes velcrow tape for easy mounting, DC power supply, free standing base.

#### Features:

- Flexible 12" gooseneck
- Removable table top & Fixed base assemblies
- Over 50 year Avg. L.E.D lamp life
- Smooth Adjustable Brightness Control
- Pure white light for easy reading
- Lamp Assembly never gets hot
- Solid State L.E.D'S with regulation circuitry for accurate and trouble free operation.
- Detachable Power Supply for easy wire routing, Polarity sensitive (+), (-) connectors.
- Inline Male\Female connector for easy cable routing. Polarity type connector (+), (-)

#### Specifications:

|                                    |   |                             |                                      |
|------------------------------------|---|-----------------------------|--------------------------------------|
| Power.....                         | 9 Vdc   | Lamp Life Avg.....          | over 50 years.                       |
| Current Draw Max.....              | 250mA   | Power Supply                | 9Vdc, 300mA, CALRAD 45-757S included |
| Power output.....                  | 4 Watts                                       | Standard Base Assembly Size | L- 4.750" x W- 2" x H- 1.5"          |
| Cable Length.....                  | 6'  | Lamp Assembly Color.....    | Black                                |
| Large Removable Base Assembly Size | L- 5" x W- 2.5" taper x H- .75"               |                             |                                      |
| Readable Viewing Area              | 12" x 12", L.E.D Output Angle 20° x 8 L.E.D'S |                             |                                      |

### 90-697-PMB PERMANENT MOUNT BASE

Bracket for permanently mounting the 90-697 to a flat surface. Includes all hardware.

### 90-699-XLR 90-700-BNC

Perfect for mixing consoles or desk top, public address usage. Gooseneck length 12". Terminates to a male XLR or BNC connector. Over 50 year Avg. L.E.D lamp life. Material color: Black

#### Specifications:

|                          |                                       |
|--------------------------|---------------------------------------|
| Power.....               | 8 L.E.D lamps operates on 12Vdc.      |
| Current consumption..... | 250mA.                                |
| Gooseneck length.....    | 12"                                   |
| (90-699-XLR) Wiring      | XLR Pin 1=ground, Pin 2=12Vdc         |
| (90-700-BNC) Wiring      | BNC shield=ground, center pin 2=12Vdc |
| Material color.....      | Black                                 |



### 90-701-XLR-RA

Perfect for mixing consoles or desk top, public address usage. Terminates to a male XLR connector. Over 50 year Avg. L.E.D lamp life. Material color: Black.

#### Specifications:

|                     |                                  |
|---------------------|----------------------------------|
| Power               | 8 L.E.D lamps operates on 12Vdc. |
| Current consumption | 250mA.                           |
| Gooseneck length    | 12"                              |
| Wiring              | XLR Pin 1=ground, Pin 2=12Vdc    |
| Material color      | Black                            |

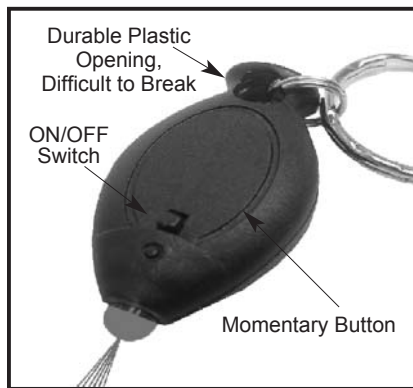


### 90-702

For use in Car's truck's. Provides a bright pure white light for reading. Never gets hot, easy to handle and operate. Terminates to a male cigarette lighter connector with ON/OFF switch. Over 50 year Avg. L.E.D lamp life. Fuse protected.

#### Specifications:

|                     |                                  |
|---------------------|----------------------------------|
| Power               | 8 L.E.D lamps operates on 12Vdc. |
| Current consumption | 250mA.                           |
| Gooseneck length    | 12"                              |
| Material color      | Black                            |



### 90-750-BL (Blue) 90-750-GN (Green) 90-750-RD (Red) 90-750-WH (White) MICRO LIGHT L.E.D. FLASHLIGHT

Over 100,000 hours of bulb life, includes two 3V lithium batteries. Durable case with keychain ring. Shock and water resistant design. Push button for momentary operation or mini ON/OFF switch. Available in 5 different colors. This unit will provide many years of trouble free operation.

### 90-750-BAT

3V lithium battery for 90-750, two required.

### 90-1000 PERSONAL L.E.D SAFETY LIGHT

With the mini-flash unit on at night, you will stay visible to motorists while walking or jogging on the road. Clip the mini -flash either on your hat or clothes. Momentary push on/off power switch. Bright flashing red L.E.D. . Easy to replace 3V lithium battery CR2032.



### 90-1000-BAT

3V lithium replacement battery CR2032.

# CALRAD

## 92 series - Flashlights & L.E.D.'S

### 92-200 6" AVIATOR COMPACT FLASHLIGHT

Shock proof construction, heavy duty machined Aircraft Aluminium with high quality black anodized finish. Fully adjustable focus head. All weather housing with sealed O-ring lamp and battery housing. One-handed tail rubber push button switch. Shatter proof lense, includes spare bulb, belt style carrying case with velcrow flap and 2 x AA Batteries.

### 92-201 18" FLEXIBLE GOOSENECK FLASHLIGHT WITH MAGNETIC PICKUP

Shock proof construction, heavy duty machined Aircraft Aluminium with high quality black anodized finish. All weather housing with sealed O-ring shaft head and battery housing. One-handed tail rubber push button switch. .4", Min 2KGS magnetism pickup head. Includes spare bulb, 2 x AA Batteries.

New Item  
92-200



New Item  
92-201



### 92-110 PANEL MOUNT HOLDER (BLACK) FOR 5 MM-LARGE L.E.D'S

Fits into 5/16" hole with mounting hardware. LED not included. 5/8" depth overall.

### 92-115 (Red)

### 92-116 (Green)

### PANEL MOUNT SELF FLASHING L.E.D'S

Fits into 5/16" hole with mounting hardware. 36" leads, 5-15V DC, Current draw 20-30ma.



92-110

92-115, 92-116

### FLASHING LED'S 5 MM SERIES—LARGE

Apply voltage and they turn on and off. Note: Plastic Snap-Type Holders available above for 5 mm LED's.

- 92-100 .....Red, Color diffused      92-102 .....Amber, Color diffused  
 92-101 .....Green, Color diffused      92-103 .....Yellow, Color diffused

#### Specifications

- This diameter is measured 0.05 (0.002) from shoulder.
- The contour is not controlled within this region of the leads.
- Lead spacing is measured where the leads emerge from the package—2.29 ±0.13 (0.090 ±0.005)
- All dimensions are in millimeters (inches).

- 92-120-BL, BLUE L.E.D      92-120-RD, RED L.E.D      92-120-YL, YELLOW L.E.D  
 92-120-GN, GREEN L.E.D      92-120-WH, WHITE L.E.D

### 5mm WATER CLEAR SUPER BRIGHT L.E.D'S

These new type of L.E.D'S provide pure high power illumination. There high performance and long life properties make them perfect for use as solid state panel indicators and lighting applications, illumination emitters for all types of new display technologies. Available in five different colors. Detailed specifications available from Calrad, ask your sales representative for information.

|        | Peak Wave Length | MCD         | Forward operating Voltage |
|--------|------------------|-------------|---------------------------|
| Red    | 640nm            | 2500 - 5000 | 1.7 - 2.5V                |
| Green  | 515-520nm        | 4500 - 6000 | 3.4 - 4.0V                |
| Blue   | 515-520nm        | 2500 - 3500 | 3.4 - 4.0V                |
| Yellow | 590nm            | 1000 - 2500 | 1.7 - 2.5V                |
| White  | 8000K            | 3000 - 4500 | 3.4 - 4.0V                |

#### Specifications:

- Current Draw Avg. .... 20-40mA, 200mA peak:  
 Mounting Centers ..... .12"  
 Len's ..... Clear  
 Viewing angle ..... 16°



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