Answering the need for high-performance solutions to original equipment manufacturers (OEMs) and retrofit panel mount applications, LEDTRONICS offers an extensive line of direct incandescent replacement Panel Mount LED Lamps and Holders that fit control panels and operating budgets alike.

Panel Mount LED Lamps and Holders come in snap-in, bolt-on, hardware-mounted and relampable versions. With many behind-the-panel depths available, LEDTRONICS Relampable Panel Mount LED Lamps and Holders (RPLH) are excellent choices for applications where space is restricted and aesthetics a consideration. LEDs are available in sunlight-visible colors such as red (660nm), orange (610nm), yellow (595nm), green (525nm), blue (470nm) and white (8000k). LEDTRONICS Panel LED Lamps and Holders can be employed in utility monitoring boards, industrial control equipment, audio and intercom panels, broadcast equipment, nuclear power status stations, medical instrumentation, etc.

Like the incandescent bulbs commonly used in panel mount applications, LEDTRONICS® RPLH Series LED lamps feature T3-1/4 (9mm) single-contact miniature bayonet bases that give installation a familiar twist. RPLH Series LED lamps are rated for 28VDC. They directly replace 28MB, 313, 757 and 1819MB series incandescent bulbs. Light colors available are Red, Orange, Yellow, Green, Blue and White. All colors are sunlight visible!

While intended as integrated assemblies that incorporate a lens, lamp and lamp holder, Panel LED Lamps and Holders may be purchased as separate components. Raised Lexan® fresnal lenses resist impact, optimize viewing, maximize light dispersion and come in a variety of colors. Designed for screw-on mounting, lenses are independent of the lamp fixtures enabling lenses and the LED lamps to be easily changed. Lenses and holders are made of a rugged, polycarbonate (UL class UL94Vx) that withstands the rigors of industrial environments. Holders incorporate captive terminal screws with self-lifting, pressure wire clamps that accept up to two 14-gauge wires. Lamp holders are rated for incoming voltages of 5V DC or AC to 240V DC or AC. LEDTRONICS Panel Mount LED Lamps and Holders are available for 16mm, 22mm, 30mm, 11/16-inch, bi-pin cartridge, 15/32-inch, 5/16-inch and 1/2-inch panel openings.

LEDs' solid-state design renders them impervious to shock, vibration, frequent switching and environmental extremes, and ideal for rugged industrial applications. With an average life span of 100,000-plus hours (11 years), LED lamps operate more than 30 Ð 50 times longer than the equivalent incandescent lamp! Savings from reduced maintenance costs and downtime quickly return the capital investment expenditure. LED lamps produce almost no heat and require 80% -- 90% less operating power than equivalent incandescents, making them as friendly to the environment as they are to the operating budget.
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<td>Question</td>
<td>Answer</td>
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<td>----------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
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<tr>
<td>Will the Panel LED replace another manufacturer's parts?</td>
<td>Dialight, Data Display Products, Industrial Devices Inc., etc... If so, what is the part number?</td>
</tr>
<tr>
<td>Mounting Type?</td>
<td>Snap-in, Snap-in with mount clip, Bolt-on, Relampable, etc...</td>
</tr>
<tr>
<td>Mounting Diameter &amp; Panel Thickness?</td>
<td>What is the hole diameter into which the lamp assembly must fit? How thick is the wall of the panel?</td>
</tr>
<tr>
<td>Operating Voltage and Polarity?</td>
<td>Actual open line voltage? AC or DC? Does it fluctuate? Indicate the Minimum/Maximum values?</td>
</tr>
<tr>
<td>Terminal Type?</td>
<td>Are solid wire (0.02 sq.), pigtail flexible wire lead (24AWG), quick disconnect (3/16 rectangular), solder lug, turret, or screw-on type terminals preferred?</td>
</tr>
<tr>
<td>Viewing Distance?</td>
<td>How far is the operator / technician when the indicator must be visible? 5 to 10 feet, 20 to 50 feet, 100 to 200 feet, 500 to 1000 feet?</td>
</tr>
<tr>
<td>Viewing Angle?</td>
<td>0 to 12 degrees – Narrow Beam 30 to 60 degrees – Medium Beam 100 to 160 degrees – Wide Beam</td>
</tr>
<tr>
<td>LED Color?</td>
<td>Ultra Red, Hi-Efficiency Red, Standard Red, Orange, Yellow, Cool white, Ultra Green, Aqua Green, Blue</td>
</tr>
<tr>
<td>Lens Type?</td>
<td>Diffused lenses are used in applications where direct viewing or indication is needed. Clear lenses are used in application where illumination is needed. Is the lens fluted?</td>
</tr>
<tr>
<td>Potential Quality and Target Price?</td>
<td>How many pieces are required within a given time frame? How much budgetary funding is allowed for this item or project?</td>
</tr>
</tbody>
</table>
Panel LED Questionnaire

About you
The following information assists LEDtronics in determining the most appropriate FREE LED product SAMPLE. Fax to (310) 534-1424 for fast response.

Name: ____________________________ Phone: (_______)
Company: _________________________ Fax: (_______)
Address: __________________________ M/S: ______________
City: __________________ State: _______ Zip: ____________

About your company
What does your company manufacture __________________________
Is your company ☐ Govt/Military ☐ Govt Contractor ☐ OEM ☐ Distributor ☐ Utility ☐ MRO
Requirement is for ☐ R&D ☐ Replacement ☐ New Application ☐ Other ______
Total annual quantity __________________________
Target price ___________ Time frame ☐ Immediate ☐ 3 months ☐ 6 months
For internal use only
SIC code: __________________________
Originator: _________________________
Rep: ______________
Current Customer ☐ Yes ☐ No

About your application
Mounting Hole Diameter ☐ 5/32 [4.0mm] ☐ 3/16 [4.8mm] ☐ 1/4 [6.4mm] ☐ Other ______
☐ 9/32 [7.2mm] ☐ 5/16 [8.0mm] ☐ 1/2 [12.7mm]
Panel LED type ☐ Snap In ☐ Hardware Mounted ☐ Relampable ☐ Other ______
Terminal type ☐ Wire-lead __________________________ ☐ Square/Round ☐ Other ______
☐ Top Hat Cyl. ☐ Flat Cyl. ☐ Dome ☐ Other ______
Lens Style ☐ Clear ☐ Diffused ☐ Other ______
☐ Square/Round
Lens/LED color ☐ Red ☐ Orange ☐ Amber ☐ Yellow ☐ White ☐ Green ☐ Blue ☐ Other ______
☐ Square/Round
Lens/Filter type ☐ Other
Operating voltage (max) ☐ 5V ☐ 12V ☐ 24V ☐ 28V ☐ 120VAC ☐ Other ______
Voltage (type) ☐ AC ☐ DC ☐ Bipolar
☐ AC
Is an external resistor in series with the lamp ☐ Yes ☐ No If yes, Ohms ______ Watts ______
Ambient lighting conditions ☐ Indirect sunlight ☐ Direct sun ☐ Office ☐ Lowlight ☐ Darkroom
☐ Indoor ☐ Outdoor
Maximum viewing distance desired ☐ 1 ft ☐ 5 ft ☐ 10 ft ☐ 20 ft ☐ 50 ft ☐ Other ______
Maximum viewing angle desired ☐ Straight on ☐ 30º ☐ 60º ☐ 90º ☐ Other ______
What is the source voltage? (If higher than the operating voltage of the lamp) ______
Would like updated literature ☐ Yes ☐ No More info on: ☐ Based ☐ Panel ☐ PCB ☐ Discrete ☐ Other ______
Applicable statutory and regulatory requirements ☐ Yes ☐ No Doc. No. __________

Additional Notes/Sketches
Snap-In Panel Mount LED Lamps

**Features**
- Panel Mounting Diameters from 5/32" (4.0mm) to 5/16" (8.0mm)
- Long Life 100,000+ hrs (10 years)
- Solid-State, High Shock/Vibration Resistant
- Maintenance Free, Easy Installation
- Low Power Consumption, High Intensity
- Diffused or Clear Lens
- Choice of High-Efficiency or Sunlight-Visible Super Intensity
- Built-in Current Limiting Resistor

**Options**
- Special Voltages
- Special Wire Lead Lengths
- Bi-Colors, Tri-Colors, RGB, IR
- Flashing / Blinking
- High Power Infrareds 850/880/940nm

### 5/32" (4.0mm) Snap-in Panel Mount LEDs

**Series:** PP156-CWR3K

<table>
<thead>
<tr>
<th>LED/Lens Type &amp; Color</th>
<th>Diffused Lens (Std Intensity)</th>
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<tr>
<td>TR6 = UL Red</td>
<td>TR4/5 = HE Red</td>
</tr>
<tr>
<td>TR4/5 = HE Red</td>
<td>TO4/5 = Orange</td>
</tr>
<tr>
<td>TO4/5 = Orange</td>
<td>TY4/5 = Yellow</td>
</tr>
<tr>
<td>TY4/5 = Yellow</td>
<td>TG4/5 = HE Green</td>
</tr>
<tr>
<td>TG4/5 = HE Green</td>
<td>TPG4/5 = P. Green</td>
</tr>
<tr>
<td>TPG4/5 = P. Green</td>
<td>TWRG4 = BiColor Red/Green</td>
</tr>
<tr>
<td>TWY4 = BiColor Yel/Green</td>
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**Options:**
- T = Terminal Type
- W6 = 6" Wire Leads

**Part Numbers:**
- PP156-W
- PP156-T

**Notes:**
- Super Intensity Diffused LEDs Available for Special Applications

### 3/16" (4.8mm) Panel Mount LEDs with Mtg. Clip

**Series:** P181-CWR3K

<table>
<thead>
<tr>
<th>LED/Lens Type &amp; Color</th>
<th>Diffused Lens (Std Intensity)</th>
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<tbody>
<tr>
<td>TR6 = UL Red</td>
<td>TR4/5 = HE Red</td>
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<td>TR4/5 = HE Red</td>
<td>TO4/5 = Orange</td>
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<tr>
<td>TO4/5 = Orange</td>
<td>TY4/5 = Yellow</td>
</tr>
<tr>
<td>TY4/5 = Yellow</td>
<td>TG4/5 = HE Green</td>
</tr>
<tr>
<td>TG4/5 = HE Green</td>
<td>TPG4/5 = P. Green</td>
</tr>
<tr>
<td>TPG4/5 = P. Green</td>
<td>TWRG4 = BiColor Red/Green</td>
</tr>
<tr>
<td>TWY4 = BiColor Yel/Green</td>
<td></td>
</tr>
</tbody>
</table>

**Options:**
- T = Terminal Type
- W6 = 6" Wire Leads

**Part Numbers:**
- P181-W
- P181-T

**Mounting Clip/Washer:** Part No. MC187/MW187

**Notes:**
- Super Intensity Diffused LEDs Available for Special Applications

### 1/4" (6.4mm) Snap-in Panel Mount LEDs

**Series:** PPS251-CWR3K

<table>
<thead>
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<th>LED/Lens Type &amp; Color</th>
<th>Diffused Lens (Std Intensity)</th>
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<tbody>
<tr>
<td>TR6 = UL Red</td>
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<tr>
<td>TR4/5 = HE Red</td>
<td>TO4/5 = Orange</td>
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<tr>
<td>TO4/5 = Orange</td>
<td>TY4/5 = Yellow</td>
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<tr>
<td>TY4/5 = Yellow</td>
<td>TG4/5 = HE Green</td>
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<tr>
<td>TG4/5 = HE Green</td>
<td>TPG4/5 = P. Green</td>
</tr>
<tr>
<td>TPG4/5 = P. Green</td>
<td>TWRG4 = BiColor Red/Green</td>
</tr>
<tr>
<td>TWY4 = BiColor Yel/Green</td>
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</tbody>
</table>

**Options:**
- T = Terminal Type
- W6 = 6" Wire Leads

**Part Numbers:**
- PPS251-W
- PPS251-T

**Notes:**
- Super Intensity Diffused LEDs Available for Special Applications

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LEDTRONICS, INC.
THE FUTURE OF LIGHT
ISO 9001 REGISTERED
Phone: (310) 534-1505 Fax: (310) 534-1424
Website: http://www.ledtronics.com

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Log # 15A Rev 09-2000
# Snap-In Panel Mount LED Lamps

## 5/16" (8.0mm) Snap-In Panel Mount LEDs

### PPS312-W (Low Profile Lens)
- **Series**: PPS312
- **LED/Lens Type & Color**: CWR3K
- **Operating Voltage**: 14V
- **Options**: W6
- **Options**: T = Terminal Type
- **W6**: 6" Wire Leads
- **Diffused Lens (Std Intensity)**
  - CWR3K = SP Red
  - CW03K = SP Orange
  - CWY3K = SP Yellow
  - CW1K = C. White
  - CWG1K = UL. Green
  - CWAG6K = A. Green
  - CWB1K = SP. Blue
- **Water Clear Lens (Super Intensity)**
  - CW03K = SP Orange
  - CWY3K = SP Yellow
  - CWG1K = UL. Green

### PPS312-T (Low Profile Lens)
- **Series**: PPS312
- **LED/Lens Type & Color**: CWR3K
- **Operating Voltage**: 14V
- **Options**: W6
- **Options**: T = Terminal Type
- **W6**: 6" Wire Leads
- **Diffused Lens (Std Intensity)**
  - CWR3K = SP Red
  - CW03K = SP Orange
  - CWY3K = SP Yellow
  - CW1K = C. White
  - CWG1K = UL. Green
  - CWAG6K = A. Green
  - CWB1K = SP. Blue
- **Water Clear Lens (Super Intensity)**
  - CW03K = SP Orange
  - CWY3K = SP Yellow
  - CWG1K = UL. Green

### PP312-W (Top Hat Lens)
- **Series**: PP312
- **LED/Lens Type & Color**: CWR3K
- **Operating Voltage**: 14V
- **Options**: W6
- **Options**: T = Terminal Type
- **W6**: 6" Wire Leads
- **Diffused Lens (Std Intensity)**
  - CWR3K = SP Red
  - CW03K = SP Orange
  - CWY3K = SP Yellow
  - CW1K = C. White
  - CWG1K = UL. Green
  - CWAG6K = A. Green
  - CWB1K = SP. Blue
- **Water Clear Lens (Super Intensity)**
  - CW03K = SP Orange
  - CWY3K = SP Yellow
  - CWG1K = UL. Green

### PP312-T (Top Hat Lens)
- **Series**: PP312
- **LED/Lens Type & Color**: CWR3K
- **Operating Voltage**: 14V
- **Options**: W6
- **Options**: T = Terminal Type
- **W6**: 6" Wire Leads
- **Diffused Lens (Std Intensity)**
  - CWR3K = SP Red
  - CW03K = SP Orange
  - CWY3K = SP Yellow
  - CW1K = C. White
  - CWG1K = UL. Green
  - CWAG6K = A. Green
  - CWB1K = SP. Blue
- **Water Clear Lens (Super Intensity)**
  - CW03K = SP Orange
  - CWY3K = SP Yellow
  - CWG1K = UL. Green

### PPD312-W (5mm Dome Lens)
- **Series**: PPD312
- **LED/Lens Type & Color**: CWR3K
- **Operating Voltage**: 14V
- **Options**: W6
- **Options**: T = Terminal Type
- **W6**: 6" Wire Leads
- **Diffused Lens (Std Intensity)**
  - CWR3K = SP Red
  - CW03K = SP Orange
  - CWY3K = SP Yellow
  - CW1K = C. White
  - CWG1K = UL. Green
  - CWAG6K = A. Green
  - CWB1K = SP. Blue
- **Water Clear Lens (Super Intensity)**
  - CW03K = SP Orange
  - CWY3K = SP Yellow
  - CWG1K = UL. Green

### PPD312-T (5mm Dome Lens)
- **Series**: PPD312
- **LED/Lens Type & Color**: CWR3K
- **Operating Voltage**: 14V
- **Options**: W6
- **Options**: T = Terminal Type
- **W6**: 6" Wire Leads
- **Diffused Lens (Std Intensity)**
  - CWR3K = SP Red
  - CW03K = SP Orange
  - CWY3K = SP Yellow
  - CW1K = C. White
  - CWG1K = UL. Green
  - CWAG6K = A. Green
  - CWB1K = SP. Blue
- **Water Clear Lens (Super Intensity)**
  - CW03K = SP Orange
  - CWY3K = SP Yellow
  - CWG1K = UL. Green

### Mounting Clip
- **Part No.**: SN312

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**Notes:** Super Intensity Diffused LEDs Available for Special Applications

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**THE FUTURE OF LIGHT**

ISO 9001 REGISTERED

Phone: (310) 534-1505  Fax: (310) 534-1424
Website: [http://www.ledtronics.com](http://www.ledtronics.com)
## Features
- Panel Mounting Diameter 1/4 in. (6.4mm) & 5/16 in. (8.0mm)
- Long Life 100,000+ hrs (10 years)
- Solid-State, High Shock/Vibration Resistant
- Maintenance Free, Easy Installation

## Options
- Special Voltages
- Sunlight-Visible Super Bright or High-Efficiency LEDs
- Bi-Colors, Tri-Colors, RGB, IR
- Flashing / Blinking

### 1/4" (6.4mm) Panel LED Lamps with Hardware

#### Hooded
- PT301-W
- PT301-T

#### Conical
- PT302-W
- PT302-T

### 5/16" (8.0mm) Panel LED Lamps with Hardware

#### Hooded
- PT501-W
- PT501-T

#### Conical
- PT502-W
- PT502-T

### LED/Lens Type & Color

#### Water Clear Lens (Super Intensity)
- CWR3K = SP Red
- CWO3K = SP Orange
- CWY3K = SP Yellow
- CW900 = C. White
- CWG1K = UL. Green
- CWAG6K = A. Green
- CWB1K = SP. Blue
- CIR881 = 880nm IR

#### Diffused Lens (Std. Intensity)
- TR6 = UL Red
- TR4/5 = HE Red
- TO4/5 = Orange
- TY4/5 = Yellow
- TG4/5 = HE Green
- TPG4/5 = P. Green
- TWRG4 = BiColor Red/Green
- TWYG4 = BiColor Yel/Green

### Std. Operating Voltage
- DC
  - 2V
  - 3.5V
  - 5/6V
  - 12/14V
  - 24V
  - 28V

### Options
- W6 = 6" Wire Leads
  - T = Terminal Type

### Notes:
- Super Intensity Diffused LEDs Available for Special Applications

---

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### Features
- 1/2" (12.7mm) Panel Mounting Diameter
- Long Life 100,000+ hrs (10+ years)
- Solid-State, High Shock/Vibration Resistant
- Maintenance Free, Easy Installation
- InGaN, InGaAlP New Technology LEDs
- Low Power Consumption, High Intensity
- Major Power Savings
- Major Reduction in Heat Generation
- Built-in Current Limiting Resistor
- Sunlight-Visible Super Bright or High-Efficiency LEDs

### Options
- Special Voltages
- Bi-Colors, Tri-Colors, RGB, IR
- Extra Wide Angle Multichip LEDs
- Flashing/Blinking
- Custom Wire Lead Lengths

### LED Color
- R3K = UL Red
- O3K = SP Orange
- Y3K = SP Yellow
- IW2K = Inc. White
- W1K = C. White
- G1K = L. Green
- AG6K = A. Green
- B1K = P. Blue
- 881 = 880nm IR

### Lens
- C = Tinted Clear
- CW = Water Clear
- TW = Milky White
- CW = Water Clear
- TW = Milky White
- CW = Water Clear
- TW = Milky White

### Standard Operating Voltage
- DC
- 2V (Ext. Res. Rqd.)
- 3.5V (Ext. Res. Rqd.)
- 5/6V
- 12/14V
- 24V
- 28V
- 48V
- 130V

### Notes:
1. Contact local representative to determine best style for each application
2. Not all possible combinations of color, voltage and polarity are available
1/2" (12.7mm) Panel LED Lamps

### Low Profile Lens Multichip (160 Illumination)

- **Series**: PFS56
- **Options**: C R3K - 5V - T
- **Options**: T = 3/16" Male Tab, W6 = 6" Wire Leads
- **LED Color**: Y6 = Yellow, W6 = P. Yellow, LY6 = L. Yellow, G6 = HE Green, PG6 = P. Green, UB6 = U. Blue
- **Std. Operating Voltage**: DC 5/6V, AC 12/14V, 24V, 28V, 48V, 130V
- **Dimensions***
  - R3K = SP Red
  - R7 = UL Red
  - R6 = HE Red
  - O3K = SP Orange
  - O6 = Orange
  - Y3K = SP Yellow

### Top Hat Lens Multichip (160 Illumination)

- **Series**: PF56
- **Options**: C R3K - 5V - T
- **Options**: T = 3/16" Male Tab, W6 = 6" Wire Leads
- **LED Color**: Y6 = Yellow, W6 = P. Yellow, LY6 = L. Yellow, G6 = HE Green, PG6 = P. Green, UB6 = U. Blue
- **Std. Operating Voltage**: DC 5/6V, AC 12/14V, 24V, 28V, 48V, 130V
- **Dimensions***
  - R3K = SP Red
  - R7 = UL Red
  - R6 = HE Red
  - O3K = SP Orange
  - O6 = Orange
  - Y3K = SP Yellow

### Dome Lens Multichip (160 Illumination)

- **Series**: PD56
- **Options**: C R3K - 5V - T
- **Options**: T = 3/16" Male Tab, W6 = 6" Wire Leads
- **LED Color**: Y6 = Yellow, W6 = P. Yellow, LY6 = L. Yellow, G6 = HE Green, PG6 = P. Green, UB6 = U. Blue
- **Std. Operating Voltage**: DC 5/6V, AC 12/14V, 24V, 28V, 48V, 130V
- **Dimensions***
  - R3K = SP Red
  - R7 = UL Red
  - R6 = HE Red
  - O3K = SP Orange
  - O6 = Orange
  - Y3K = SP Yellow

### Special Products

- **Multichip**
- **Bi-Color/Tri Color**
  - Red/Green
  - Yellow/Green
- **256 Color RGB**

Notes:
1. Contact local representative to determine best style for each application
2. Not all possible combinations of color, voltage and polarity are available
5/16" Relampable Panel LED Lamps

Features
- Panel Mounting Diameter 5/16 in. (8.0mm)
- Long Life 100,000+ hrs (10 years)
- Solid-State, High Shock/Vibration Resistant
- Maintenance Free, Easy Installation

Options
- Special Voltages
- Sunlight-Visible Super Bright or High-Efficiency LEDs
- Bi-Colors, Tri-Colors, RGB, IR
- Flashing / Blinking

5/16" (8mm) Mtg. Dia. Front & Rear Mount with T1 Sub-Midget Flange LED

Series
HLC310 = Front Mount
HLD310 = Rear Mount
HLD312 = 2 Chip
HLD314 = 4 Chip

LED Color
C = Tinted Clear
CW = Water Clear
TW = Milky White

HLC310 C R3K - 5V - P

Options
P = Center Pos (Black Bezel)

Std. Operating Voltage
DC 2Vf (Ext. Res. Rqd.)
   3.5Vf (Ext. Res. Rqd.)
   3.6V
   5/6V
   12/14V
   24V
   28V

Watertight Front Mount

Standard Front Mount

Standard Rear Mount

T1 LED Lamps

Series
FF120 = 1 Chip
F121 = 1 Chip
F122 = 2 Chip
F124 = 4 Chip

Options
P = Positive Center
N = Negative Center

Std. Operating Voltage
DC 2Vf (Ext. Res. Rqd.)
   3.5Vf (Ext. Res. Rqd.)
   3.6V
   5/6V
   12/14V
   24V
   28V

LED Color
R3K = SP Red
O3K = SP Orange
Y3K = SP Yellow
W900 = C. White
G1K = UL. Green
AG6K = A. Green
B1K = SP. Blue

3 Chip
LED Color
P6K = SP Red
O6K = SP Orange
Y6K = SP Yellow
W500 = C. White
G2K = UL. Green
AG8K = A. Green
B2K = SP. Blue

4 Chip
LED Color
P8K = SP Red
O8K = SP Orange
Y8K = SP Yellow
W700 = C. White
G3K = UL. Green
AG10K = A. Green
B3K = SP. Blue

Super Intensity 2 & 4 Chip LEDs Available in This Package for Special Applications

LED Color
Diff Red
Diff Orange
Diff Green
Diff. White

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**3/8" Relampable Panel LED Lamps**

**Features**
- 3/8" (9.5mm) Panel Mtg Diameter
- Industry Standard Bi-Pin Cartridge and Socket
- Long Life 100,000+ hrs (10 years)
- Solid-State, High Shock/Vibration Resistant
- Maintenance Free, Easy Installation
- Meets MIL-L-3661B. Conforms to MS18235.6,7,8
- Low Power Consumption, High Intensity
- Major Power Savings
- Major Reduction in Heat Generation
- Built-in Current Limiting Resistor

**Options**
- Special Voltages
- Sunlight-Visible Super Bright or High-Efficiency LEDs
- Bi-Colors, Tri-Colors, RGB, IR
- RFI/EMI, Splashproof
- Flashing/Blinking

---

**3/8" (9.5mm) Top Hat/Cylindrical Lens**

<table>
<thead>
<tr>
<th>Lens</th>
<th>LED Color</th>
<th>Std. Operating Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF370-B</td>
<td>R3K = SP Red</td>
<td>DC: 2V, AC: 120VAC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DC: 3.5V, 3.6V</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DC: 5/6V, 12/14V</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DC: 24V, 28V</td>
</tr>
<tr>
<td></td>
<td>O3K = SP Orange</td>
<td>DC: 5V, 12/14V</td>
</tr>
<tr>
<td></td>
<td>Y3K = SP Yellow</td>
<td>DC: 24V, 28V</td>
</tr>
<tr>
<td></td>
<td>IW2K = Inc White</td>
<td>DC: 5V, 12/14V</td>
</tr>
<tr>
<td></td>
<td>W6K = C. White</td>
<td>DC: 5V, 12/14V</td>
</tr>
<tr>
<td></td>
<td>G1K = UL Green</td>
<td>DC: 5V, 12/14V</td>
</tr>
<tr>
<td></td>
<td>AG6K = A. Green</td>
<td>DC: 5V, 12/14V</td>
</tr>
<tr>
<td></td>
<td>B1K = SP Blue</td>
<td>DC: 5V, 12/14V</td>
</tr>
</tbody>
</table>

**Materials**
- Lens: Polycarbonate
- Socket: Anodized Aluminum

---

**3/8" (9.5mm) Dome/Stove Pipe Lens**

<table>
<thead>
<tr>
<th>Lens</th>
<th>LED Color</th>
<th>Std. Operating Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD290</td>
<td>O3K = SP Orange</td>
<td>DC: 2V, AC: 120VAC</td>
</tr>
<tr>
<td></td>
<td>Y3K = SP Yellow</td>
<td>DC: 3.5V, 3.6V</td>
</tr>
<tr>
<td></td>
<td>IW2K = Inc White</td>
<td>DC: 5/6V, 12/14V</td>
</tr>
<tr>
<td></td>
<td>W6K = C. White</td>
<td>DC: 24V, 28V</td>
</tr>
<tr>
<td></td>
<td>G1K = UL Green</td>
<td>DC: 12/14V, 24V</td>
</tr>
<tr>
<td></td>
<td>AG6K = A. Green</td>
<td>DC: 12/14V, 24V</td>
</tr>
<tr>
<td></td>
<td>B1K = SP Blue</td>
<td>DC: 12/14V, 24V</td>
</tr>
</tbody>
</table>

**Materials**
- Lens: Polycarbonate
- Socket: Anodized Aluminum

---

**3/8" (9.5mm) Low Profile Flat Lens**

<table>
<thead>
<tr>
<th>Lens</th>
<th>LED Color</th>
<th>Std. Operating Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF290</td>
<td>AG6K = A. Green</td>
<td>DC: 2V, AC: 120VAC</td>
</tr>
<tr>
<td></td>
<td>G1K = UL Green</td>
<td>DC: 3.5V, 3.6V</td>
</tr>
<tr>
<td></td>
<td>IW2K = Inc White</td>
<td>DC: 5/6V, 12/14V</td>
</tr>
<tr>
<td></td>
<td>W6K = C. White</td>
<td>DC: 24V, 28V</td>
</tr>
<tr>
<td></td>
<td>G1K = UL Green</td>
<td>DC: 12/14V, 24V</td>
</tr>
<tr>
<td></td>
<td>B1K = SP Blue</td>
<td>DC: 12/14V, 24V</td>
</tr>
</tbody>
</table>

**Materials**
- Lens: Polycarbonate
- Socket: Anodized Aluminum

---

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**Bi-Pin Cartridge Panel LED Lamps**

### Materials
- Lens: Polycarbonate
- Socket: Anodized Aluminum
- Cartridge Hsg: Anodized Aluminum or Nylon (C290)
- Cartridge Pins: Steel or Hard Brass (Non Solderable)
- Anodized Aluminum (Cl/Cl/Cl/Cl290)

### Lens Types
- C = Tinted Clear
- CW = Water Clear
- TW = Milky White

### Lens Color
- Black Bezel
- Bi-Polar (AC/DC)
- 5/6V
- 12/14V
- 24V
- 28V

### Lens Type/Color
- Clear Blue
- Clear Green
- Clear Orange
- Clear Red
- Clear Yellow
- Clear White
- Clear Yellow
- Clear Blue
- Water Clear

### Mounting Accessories
- Holders
- Retainer Lens Cap
- Retainer Ring
- Wiring Plug
- Mounting Clip/Washer

### Optional Wire Leads
- B/W6 = 6' Wire Leads

### Series
- **CF290 Series**
  - Standard Flat Cylindrical
- **CMF290 Series**
  - Medium Flat Cylindrical
- **CLF290 Series**
  - Long Flat Cylindrical
- **CXF290 Series**
  - Extra Long Flat Cylindrical
- **CFS290 Series**
  - Standard Low Profile
- **CMS290 Series**
  - Medium Low Profile
- **CLS290 Series**
  - Long Low Profile
- **CXS290 Series**
  - Extra Long Low Profile

### Lens & LED Color
- R3K = SP Red
- O3K = SP Orange
- Y3K = SP Yellow
- CW = SP White
- G3K = SP Green
- B1K = SP Blue
- AGK = A. Green
- G6 = HE Green
- PG6 = P. Green

### Lens Cap
- LC370-CRF = Clear Red
- LC370-CAF = Clear Orange
- LC370-CGF = Clear Green
- LC370-CBF = Clear Blue
- LC370-CWF = Water Clear

### Lens Cap Retainer Part Number
- RCS370-B

### Wiring Plug Part Number
- WSF290

### Mounting Clip/Washer Part Number
- MC290/MW290

---

Log # 119F Rev 07/2000
**11/16" Relampable Panel LED Lamps**

(Meets MIL Spec MIL-L-3661B)

**Flat Lens BF321**

**Dome Lens BF3127**

---

**T3-1/4 LED Lamps**

<table>
<thead>
<tr>
<th>Series</th>
<th>Options</th>
<th>Lens Cap</th>
<th>Lens Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>BF321</td>
<td>BP = Bipolar (AC/DC)</td>
<td>LCF780 (Watertight)</td>
<td>Clear Red</td>
</tr>
<tr>
<td>BF321</td>
<td></td>
<td>LCF780W (Watertight)</td>
<td>Clear Orange</td>
</tr>
<tr>
<td>BF3127</td>
<td></td>
<td>LCD780W (Watertight)</td>
<td>Clear Yellow</td>
</tr>
<tr>
<td>BF3127</td>
<td></td>
<td>LCD780W (Watertight)</td>
<td>Clear Green</td>
</tr>
<tr>
<td>BF3127</td>
<td></td>
<td>LCD780W (Watertight)</td>
<td>Water Clear</td>
</tr>
<tr>
<td>BF3127</td>
<td></td>
<td>LCD780W (Watertight)</td>
<td>Diff. White</td>
</tr>
</tbody>
</table>

---

**0.78" (19.8mm) Relampable Panel LED Lamps**

- **Series:**
  - BSD780 = 1 Chip
  - BSD787 = 7 Cluster

- **Voltage Options:**
  - 2Vf (Ext. Res. Rqd.)
  - 3.5Vf (Ext. Res. Rqd.)
  - 3.6V
  - 5/6V
  - 12/14V
  - 24V
  - 28V
  - 48V
  - 60V
  - 130V

---

**LED Color (Super Intensity):**
- R3K = SP Red
- O3K = SP Orange
- Y3K = SP Yellow
- IW2K = Inc White
- W6K = C. White
- G1K = UL. Green
- AG6K = A. Green
- B1K = SP. Blue

---

**Options:**
- BP = Bipolar (AC/DC)
- S = Chrome Finish
- B = Black Finish
- WP = Watertight
22mm Low-Cost Panel Mount LED Indicators

Features
- Panel Mounting Diameter
  22mm (7/8 in.)
- Low-Cost Replacement to Industry Standard 22mm Pilot Lights
- Long Life 100,000+ hrs (10 years)
- Solid-State, High Shock/Vibration Resistant
- Maintenance Free, Easy Installation

Options
- Special Voltages/Cluster
- Sunlight-Visible Super Bright or High-Efficiency LEDs
- Bi-Colors, Tri-Colors, RGB, IR
- Splash Proof - Moisture Proof
- Non-Relampable Models Available
- Flashing / Blinking
- Diffuser (For Use with Legend Inserts)

Complete Lamp Assembly

Part Number Includes: Lens, Lamp & Holder
BS851CXF-XXV-XX (BF321 LED Lamp)
BS854CXF-XXV-XX (BF304 LED Lamp)

Features
- Combination Terminals
- Low Power Consumption, High Intensity
- Major Power Savings
- Major Reduction in Heat Generation
- Built-in Current Limiting Resistor

Complete Lamp Assembly

1 LED / Lamp Assembly (Recommended for Low, Ambient Light Conditions)

Part Number Example
BS851 = 1 LED
(BF321 LED Lamp)

Physical Characteristics
- Lens Color
  CRF = Clear Red
  CAF = Clear Amber
  CYF = Clear Yellow
  CGF = Clear Green
  CBF = Clear Blue
  CWF = Water Clear

Electrical Characteristics
- Std. Operating Voltage
  DC 12V 24V 24/28V 48V 130V
  AC 28V

Polarity
- BP = Bipolar
- P = Center Contact Positive
- N = Center Contact Negative
- AC = AC Only

4 LEDs / Lamp Assembly (Recommended for Sunlight-Visible Light Conditions)

Part Number Example
BS854 = 4 LEDs
(BF304 LED Lamp)

Physical Characteristics
- Lens Color
  CRF = Clear Red
  CAF = Clear Amber
  CYF = Clear Yellow
  CGF = Clear Green
  CBF = Clear Blue
  CWF = Water Clear

Electrical Characteristics
- Std. Operating Voltage
  DC 12V 24V 24/28V 48V 130V
  AC 28V

Polarity
- BP = Bipolar
- P = Center Contact Positive
- N = Center Contact Negative
- AC = AC Only

Notes:
1. Contact local representative to determine best style for each application
2. Not all possible combinations of color, voltage and polarity are available

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### LED Lamp Replacement

<table>
<thead>
<tr>
<th>Part Number Example</th>
<th>Physical Characteristics</th>
<th>Electrical Characteristics</th>
<th>Polarity</th>
</tr>
</thead>
<tbody>
<tr>
<td>BF321 C R3K</td>
<td>28V BP</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Part Number Example**: BF321 = 1 LED, BF304 = 4 LED Cluster
- **LED Lens Type/Color**: Clear
- **Polarity**: BP = Bipolar
- **Brightness Code Options**:
  - **BP** = Bipolar (For DC Use Only)
  - **P** = Center Contact Positive
  - **N** = Center Contact Negative
  - **AC** = AC Only

#### Notes:
1. Contact local representative to determine best style for each application.
2. LED brightness code determined by factory based on application.
3. Not all possible combinations of color, voltage and polarity are available.
4. For best results, match LED lamp color with lens cap color.
5. Water clear lens (-CWF) will work with any color LED.

### Lens Cap Replacement

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Lens Cap Part Number</th>
<th>Lens Type/Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>LENS-LCF850-CXF (X = choose color)</td>
<td>LENS-LCF850-CRF</td>
<td>Clear Red</td>
</tr>
<tr>
<td></td>
<td>LENS-LCF850-CAF</td>
<td>Clear Amber</td>
</tr>
<tr>
<td></td>
<td>LENS-LCF850-CYF</td>
<td>Clear Yellow</td>
</tr>
<tr>
<td></td>
<td>LENS-LCF850-CGF</td>
<td>Clear Green</td>
</tr>
<tr>
<td></td>
<td>LENS-LCF850-CBF</td>
<td>Clear Blue</td>
</tr>
<tr>
<td></td>
<td>LENS-LCF850-CWF</td>
<td>Water Clear</td>
</tr>
</tbody>
</table>

#### Lamp Holder Replacement

<table>
<thead>
<tr>
<th>Part Number</th>
<th>HLD-BS850S</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Application

- **Application Notes**: 1 LED lamp assembly recommended for low, ambient light conditions.
- 4 LED lamp assembly recommended for sunlight-visible light conditions.

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Simply the Best

LEDTRONICS products are engineered to be the best in quality and performance. Working with years of field-learned knowledge, each product is designed for the environment in which it is to operate. Designed for screw-on mounting, lenses are independent of the lamp fixtures enabling lenses and the LED lamps to be easily changed. Lenses and holders are made of a rugged, polycarbonate (UL class UL94Vx) that withstands the rigors of industrial environments.

The RPLH series PilotLED Panel Mount Line is a fully integrated modular system that offers a variety of sizes, lens colors and voltages. LEDs are available in sunlight-visible colors such as red (660nm), orange (610nm), yellow (595nm), green (525nm), blue (470nm) and white (8000k). Holders incorporate captive terminal screws with self-lifting, pressure wire clamps that accept up to two 14-gauge wires.

Features

- Maintenance Free
- Long life / 100,000+ hours
- Solid state, high shock / vibration resistant
- Easy installation; easily modified
- Lamp holders meet UL industrial control E110070
- 1-year warranty
- Major cost savings
- Six colors available
- Reduces power consumption up to 80%

Applications

With many behind-the-panel depths available, LEDtronics Relampable Panel Mount LED Lamps and Holders (RPLH) are excellent choices for applications where space is restricted and aesthetics a consideration. LEDtronics Panel LED Lamps and Holders can be employed in utility monitoring boards, industrial control equipment, audio and intercom panels, broadcast equipment, nuclear power status stations, medical instrumentation, etc. . . .

The lampholders are made of high quality Rynite moldings UL class UL94VO

Lens - Fresnel design - Polycarbonate (Lexan) Material
Color - Amber, Blue, Clear, Green, Red, White, Yellow

Lampholders are UL listed industrial control E110075

Choice of Lens Colors

- Red
- Amber
- Yellow
- Green
- Blue
- White
- Clear
**Environmental**
Operating temperature: -25°C to +50°C
Storage temperature: -40°C to +70°C
Relative humidity: Rated for operation in non-condensing relative humidities between 5% and 95%

**Selection Guide**
Part numbers are for complete assemblies – lens, lamp and lampholder:

**16mm PilotLED**

<table>
<thead>
<tr>
<th>Assembly Part Number</th>
<th>Color</th>
<th>Volts*</th>
<th>Lens Color</th>
<th>Lamp Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPLH16-01-01-02</td>
<td>RED</td>
<td>48VDC**</td>
<td>RPLL16-CRF</td>
<td>RPLB-0201-28V</td>
</tr>
<tr>
<td>RPLH16-01-02-02</td>
<td>AMBER</td>
<td>48VDC**</td>
<td>RPLL16-CAF</td>
<td>RPLB-0203-28V</td>
</tr>
<tr>
<td>RPLH16-01-03-02</td>
<td>YELLOW</td>
<td>48VDC**</td>
<td>RPLL16-CYF</td>
<td>RPLB-0204-28V</td>
</tr>
<tr>
<td>RPLH16-01-04-02</td>
<td>GREEN</td>
<td>48VDC**</td>
<td>RPLL16-CGF</td>
<td>RPLB-0206-28V</td>
</tr>
<tr>
<td>RPLH16-01-05-02</td>
<td>BLUE</td>
<td>48VDC**</td>
<td>RPLL16-CBF</td>
<td>RPLB-0208-28V</td>
</tr>
<tr>
<td>RPLH16-01-06-02</td>
<td>WHITE</td>
<td>48VDC**</td>
<td>RPLL16-TWF</td>
<td>RPLB-0209-28V</td>
</tr>
<tr>
<td>RPLH16-01-07-02</td>
<td>CLEAR</td>
<td>48VDC**</td>
<td>RPLL16-CWF</td>
<td>RPLB-0210-28V</td>
</tr>
<tr>
<td>RPLH16-01-02-01-02</td>
<td>RED</td>
<td>130VDC**</td>
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<td>RPLB-0201-28V</td>
</tr>
<tr>
<td>RPLH16-01-02-02-02</td>
<td>AMBER</td>
<td>130VDC**</td>
<td>RPLL16-CBF</td>
<td>RPLB-0208-28V</td>
</tr>
<tr>
<td>RPLH16-01-03-02-02</td>
<td>YELLOW</td>
<td>130VDC**</td>
<td>RPLL16-CYF</td>
<td>RPLB-0204-28V</td>
</tr>
<tr>
<td>RPLH16-01-04-02-02</td>
<td>GREEN</td>
<td>130VDC**</td>
<td>RPLL16-CGF</td>
<td>RPLB-0206-28V</td>
</tr>
<tr>
<td>RPLH16-01-05-02-02</td>
<td>BLUE</td>
<td>130VDC**</td>
<td>RPLL16-CBF</td>
<td>RPLB-0208-28V</td>
</tr>
<tr>
<td>RPLH16-01-06-02-02</td>
<td>WHITE</td>
<td>130VDC**</td>
<td>RPLL16-TWF</td>
<td>RPLB-0209-28V</td>
</tr>
<tr>
<td>RPLH16-01-07-02-02</td>
<td>CLEAR</td>
<td>130VDC**</td>
<td>RPLL16-CWF</td>
<td>RPLB-0210-28V</td>
</tr>
</tbody>
</table>

**Replacement Lenses**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPLL16-CRF</td>
<td>RED</td>
</tr>
<tr>
<td>RPLL16-CAF</td>
<td>AMBER</td>
</tr>
<tr>
<td>RPLL16-CYF</td>
<td>YELLOW</td>
</tr>
<tr>
<td>RPLL16-CGF</td>
<td>GREEN</td>
</tr>
<tr>
<td>RPLL16-CBF</td>
<td>BLUE</td>
</tr>
<tr>
<td>RPLL16-TWF</td>
<td>WHITE</td>
</tr>
<tr>
<td>RPLL16-CWF</td>
<td>CLEAR</td>
</tr>
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</table>

**Replacement Lamps**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPLB-0201-28V</td>
<td>RED</td>
</tr>
<tr>
<td>RPLB-0203-28V</td>
<td>AMBER</td>
</tr>
<tr>
<td>RPLB-0204-28V</td>
<td>YELLOW</td>
</tr>
<tr>
<td>RPLB-0206-28V</td>
<td>GREEN</td>
</tr>
<tr>
<td>RPLB-0208-28V</td>
<td>BLUE</td>
</tr>
<tr>
<td>RPLB-0209-28V</td>
<td>WHITE</td>
</tr>
<tr>
<td>RPLB-0210-28V</td>
<td>CLEAR</td>
</tr>
</tbody>
</table>

* Volts = full voltage. Customer defines incoming voltage, lamp in holder is made to that voltage.
* This holder contains no current limiting resistor. (Example RPLH16-24-01-02 [24 volt incoming source])
** 48 & 130VDC use an internal series resistor to drop the voltage across the LED bulb to 28 volts.

**Illumination Pattern**

Dimensions are approximate.
**Selection Guide**

Part numbers are for complete assemblies – lens, lamp and lampholder.

**PilotLED Assembly Part Number**

<table>
<thead>
<tr>
<th>Assembly Part Number</th>
<th>Color</th>
<th>Lens Color</th>
<th>Indoor Lamp</th>
<th>Outdoor Lamp</th>
</tr>
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<tbody>
<tr>
<td>RPLH22-01-01-02</td>
<td>RED</td>
<td>RPLL22-CRF</td>
<td>RPLB-0201-28V</td>
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<tr>
<td>RPLH22-01-02-02</td>
<td>AMBER</td>
<td>RPLL22-CF2</td>
<td>RPLB-0203-28V</td>
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<tr>
<td>RPLH22-01-03-03</td>
<td>YELLOW</td>
<td>RPLL22-CYF</td>
<td>RPLB-0204-28V</td>
<td></td>
</tr>
<tr>
<td>RPLH22-01-04-04</td>
<td>GREEN</td>
<td>RPLL22-CGF</td>
<td>RPLB-0206-28V</td>
<td></td>
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<tr>
<td>RPLH22-01-05-05</td>
<td>BLUE</td>
<td>RPLL22-CBF</td>
<td>RPLB-0208-28V</td>
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</tr>
<tr>
<td>RPLH22-01-06-06</td>
<td>WHITE</td>
<td>RPLL22-CWF</td>
<td>RPLB-0209-28V</td>
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</tr>
<tr>
<td>RPLH22-01-07-07</td>
<td>CLEAR</td>
<td>RPLL22-CWF</td>
<td>RPLB-0209-28V</td>
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<tr>
<td>RPLH22-02-01-02</td>
<td>RED</td>
<td>RPLL22-CR1</td>
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<tr>
<td>RPLH22-02-02-02</td>
<td>AMBER</td>
<td>RPLL22-CF2</td>
<td>RPLB-0203-28V</td>
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</tr>
<tr>
<td>RPLH22-02-03-03</td>
<td>YELLOW</td>
<td>RPLL22-CYF</td>
<td>RPLB-0204-28V</td>
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<tr>
<td>RPLH22-02-04-04</td>
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<td>RPLH22-02-05-05</td>
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</tr>
<tr>
<td>RPLH22-02-06-06</td>
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<tr>
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**Replacement Lenses**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Color</th>
<th>Replacement Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPLL22-CRF</td>
<td>RED</td>
<td>RPLB-0201-28V</td>
</tr>
<tr>
<td>RPLL22-CF2</td>
<td>AMBER</td>
<td>RPLB-0203-28V</td>
</tr>
<tr>
<td>RPLL22-CYF</td>
<td>YELLOW</td>
<td>RPLB-0204-28V</td>
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<tr>
<td>RPLL22-CGF</td>
<td>GREEN</td>
<td>RPLB-0206-28V</td>
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<tr>
<td>RPLL22-CBF</td>
<td>BLUE</td>
<td>RPLB-0208-28V</td>
</tr>
<tr>
<td>RPLL22-CWF</td>
<td>WHITE</td>
<td>RPLB-0209-28V</td>
</tr>
<tr>
<td>RPLL22-CWF</td>
<td>CLEAR</td>
<td>RPLB-0210-28V</td>
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**Replacement Lamps**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Color</th>
<th>Replacement Part Number</th>
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</thead>
<tbody>
<tr>
<td>RPLB-0201-28V</td>
<td>RED</td>
<td>RPLB-001-28V</td>
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<tr>
<td>RPLB-0203-28V</td>
<td>AMBER</td>
<td>RPLB-003-28V</td>
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<tr>
<td>RPLB-0204-28V</td>
<td>YELLOW</td>
<td>RPLB-004-28V</td>
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<tr>
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<td>GREEN</td>
<td>RPLB-006-28V</td>
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<td>RPLB-0208-28V</td>
<td>BLUE</td>
<td>RPLB-008-28V</td>
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<tr>
<td>RPLB-0209-28V</td>
<td>WHITE</td>
<td>RPLB-009-28V</td>
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<tr>
<td>RPLB-0210-28V</td>
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<td>RPLB-010-28V</td>
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**Package Dimensions**

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Value</th>
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<tbody>
<tr>
<td>Lampholder</td>
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</tr>
<tr>
<td>Nut</td>
<td>0.78</td>
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<tr>
<td>Lamp</td>
<td>0.53</td>
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<tr>
<td>Lens</td>
<td>1.14</td>
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**Illumination Pattern**

Dimensions are approximate.
Selection Guide
Part numbers are for complete assemblies – lens, lamp and lampholder.

### 30mm PilotLED
Series RPLH30
UL File No. E110075

### Assembly Part Number
PilotLED Assembly Part Number
**RPLH30-01*-01-05**

<table>
<thead>
<tr>
<th>Assembly Part Number</th>
<th>Color</th>
<th>Incoming Voltage</th>
<th>Lens</th>
<th>LED Lamp Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPLH30-01-01-05</td>
<td>RED</td>
<td>48VDC**</td>
<td>RPLL30-CRF</td>
<td>RPLB-0501-28V</td>
</tr>
<tr>
<td>RPLH30-01-02-05</td>
<td>AMBER</td>
<td>48VDC**</td>
<td>RPLL30-CAF</td>
<td>RPLB-0503-28V</td>
</tr>
<tr>
<td>RPLH30-01-03-05</td>
<td>YELLOW</td>
<td>48VDC**</td>
<td>RPLL30-CYF</td>
<td>RPLB-0504-28V</td>
</tr>
<tr>
<td>RPLH30-01-04-05</td>
<td>GREEN</td>
<td>48VDC**</td>
<td>RPLL30-CGF</td>
<td>RPLB-0506-28V</td>
</tr>
<tr>
<td>RPLH30-01-05-05</td>
<td>BLUE</td>
<td>48VDC**</td>
<td>RPLL30-CBF</td>
<td>RPLB-0508-28V</td>
</tr>
<tr>
<td>RPLH30-01-06-05</td>
<td>WHITE</td>
<td>48VDC**</td>
<td>RPLL30-TWF</td>
<td>RPLB-0509-28V</td>
</tr>
<tr>
<td>RPLH30-01-07-05</td>
<td>CLEAR</td>
<td>48VDC**</td>
<td>RPLL30-CWF</td>
<td>RPLB-0510-28V</td>
</tr>
<tr>
<td>RPLH30-02-01-05</td>
<td>RED</td>
<td>130VDC**</td>
<td>RPLL30-CRF</td>
<td>RPLB-0501-28V</td>
</tr>
<tr>
<td>RPLH30-02-02-05</td>
<td>AMBER</td>
<td>130VDC**</td>
<td>RPLL30-CAF</td>
<td>RPLB-0503-28V</td>
</tr>
<tr>
<td>RPLH30-02-03-05</td>
<td>YELLOW</td>
<td>130VDC**</td>
<td>RPLL30-CYF</td>
<td>RPLB-0504-28V</td>
</tr>
<tr>
<td>RPLH30-02-04-05</td>
<td>GREEN</td>
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</tr>
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<td>130VDC**</td>
<td>RPLL30-CBF</td>
<td>RPLB-0508-28V</td>
</tr>
<tr>
<td>RPLH30-02-06-05</td>
<td>WHITE</td>
<td>130VDC**</td>
<td>RPLL30-TWF</td>
<td>RPLB-0509-28V</td>
</tr>
<tr>
<td>RPLH30-02-07-05</td>
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<td>130VDC**</td>
<td>RPLL30-CWF</td>
<td>RPLB-0510-28V</td>
</tr>
</tbody>
</table>

* Volts = full voltage. Customer defines incoming voltage, lamp in holder is made to that voltage. This holder contains no current limiting resistor. (Example RPLH30-24-01-05 [24 volt incoming source])

** 48 & 130VDC use an internal series resistor to drop the voltage across the LED bulb to 28 volts.

### Optional Replacement Lamps

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPLB-0501-28V</td>
<td>RED</td>
</tr>
<tr>
<td>RPLB-0503-28V</td>
<td>AMBER</td>
</tr>
<tr>
<td>RPLB-0504-28V</td>
<td>YELLOW</td>
</tr>
<tr>
<td>RPLB-0506-28V</td>
<td>GREEN</td>
</tr>
<tr>
<td>RPLB-0508-28V</td>
<td>BLUE</td>
</tr>
<tr>
<td>RPLB-0509-28V</td>
<td>WHITE</td>
</tr>
<tr>
<td>RPLB-0510-28V</td>
<td>CLEAR</td>
</tr>
</tbody>
</table>

**1.19 [30.2] mounting hole diameter**

**0.25 [6.35] maximum panel thickness**

**1.97 [50.8] minimum center to center spacing**

### Package Dimensions

### Illumination Pattern

Dimensions are approximate
<table>
<thead>
<tr>
<th>LEDtronics Code</th>
<th>LED Chip Code</th>
<th>Wavelength nm</th>
<th>Color Name</th>
<th>Fwd Voltage Vf @ 20mA</th>
<th>Intensity 5mm LEDs</th>
<th>Viewing Angle</th>
<th>LED Dye Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>941</td>
<td>IR941</td>
<td>940</td>
<td>Infrared</td>
<td>1.5</td>
<td>16mW @ 50mA</td>
<td>15°</td>
<td>GaAlAs/GaAs - Gallium Aluminum Arsenide/Gallium Arsenide</td>
</tr>
<tr>
<td>881</td>
<td>IR881</td>
<td>880</td>
<td>Infrared</td>
<td>1.7</td>
<td>18mW @ 50mA</td>
<td>15°</td>
<td>GaAlAs/GaAs - Gallium Aluminum Arsenide/Gallium Arsenide</td>
</tr>
<tr>
<td>851</td>
<td>IR851</td>
<td>850</td>
<td>Infrared</td>
<td>1.7</td>
<td>26mW @ 50mA</td>
<td>15°</td>
<td>GaAlAs/GaAlAs - Gallium Aluminum Arsenide/Gallium Aluminum Arsenide</td>
</tr>
<tr>
<td>0UR</td>
<td>R3KF</td>
<td>660</td>
<td>Ultra Red</td>
<td>1.8</td>
<td>2000mcd @ 20mA</td>
<td>15°</td>
<td>GaAlAs/GaAlAs - Gallium Aluminum Arsenide/Gallium Aluminum Arsenide</td>
</tr>
<tr>
<td>00R</td>
<td>R3/R4/R5</td>
<td>635</td>
<td>High Eff. Red</td>
<td>2.0</td>
<td>2000mcd @ 20mA</td>
<td>15°</td>
<td>GaAsP/GaP - Gallium Arsenic Phosphide/Gallium Phosphide</td>
</tr>
<tr>
<td>0ER</td>
<td>E3K</td>
<td>633</td>
<td>Super Red</td>
<td>2.2</td>
<td>3500mcd @ 20mA</td>
<td>15°</td>
<td>InGaAlP - Indium Gallium Aluminum Phosphide</td>
</tr>
<tr>
<td>0UO</td>
<td>O3K/O6K</td>
<td>620</td>
<td>Super Orange</td>
<td>2.2</td>
<td>4500mcd @ 20mA</td>
<td>15°</td>
<td>InGaAlP - Indium Gallium Aluminum Phosphide</td>
</tr>
<tr>
<td>0UO</td>
<td>O3KF</td>
<td>612</td>
<td>Super Orange</td>
<td>2.2</td>
<td>6500mcd @ 20mA</td>
<td>15°</td>
<td>InGaAlP - Indium Gallium Aluminum Phosphide</td>
</tr>
<tr>
<td>00O</td>
<td>O4/O5</td>
<td>605</td>
<td>Orange</td>
<td>2.1</td>
<td>160mcd @ 20mA</td>
<td>15°</td>
<td>GaAsP/GaP - Gallium Arsenic Phosphide/Gallium Phosphide</td>
</tr>
<tr>
<td>0UY</td>
<td>Y3KF</td>
<td>595</td>
<td>Super Yellow</td>
<td>2.2</td>
<td>5500mcd @ 20mA</td>
<td>15°</td>
<td>InGaAlP - Indium Gallium Aluminum Phosphide</td>
</tr>
<tr>
<td>0PY</td>
<td>Y3KH</td>
<td>592</td>
<td>Super Pure Yellow</td>
<td>2.1</td>
<td>7000mcd @ 20mA</td>
<td>15°</td>
<td>InGaAlP - Indium Gallium Aluminum Phosphide</td>
</tr>
<tr>
<td>00Y</td>
<td>Y3/Y4/Y5</td>
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<td>Yellow</td>
<td>2.1</td>
<td>100mcd @ 20mA</td>
<td>15°</td>
<td>GaAsP/GaP - Gallium Arsenic Phosphide/Gallium Phosphide</td>
</tr>
<tr>
<td>0IW</td>
<td>IW2K</td>
<td>4500K</td>
<td>Incand White</td>
<td>3.6</td>
<td>2000mcd @ 20mA</td>
<td>20°</td>
<td>SiC/GaN - Silicon Carbide/Gallium Nitride</td>
</tr>
<tr>
<td>0PW</td>
<td>PW4K</td>
<td>6500K</td>
<td>Pale White</td>
<td>3.6</td>
<td>4000mcd @ 20mA</td>
<td>20°</td>
<td>SiC/GaN - Silicon Carbide/Gallium Nitride</td>
</tr>
<tr>
<td>0CW</td>
<td>CW6K</td>
<td>8000K</td>
<td>Cool White</td>
<td>3.6</td>
<td>6000mcd @ 20mA</td>
<td>20°</td>
<td>SiC/GaN - Silicon Carbide/Gallium Nitride</td>
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<tr>
<td>0LY</td>
<td>LY1K</td>
<td>574</td>
<td>Super Lime Yellow</td>
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<td>1000mcd @ 20mA</td>
<td>15°</td>
<td>InGaAlP - Indium Gallium Aluminum Phosphide</td>
</tr>
<tr>
<td>0UG</td>
<td>G1K</td>
<td>570</td>
<td>Super Lime Green</td>
<td>2.0</td>
<td>1000mcd @ 20mA</td>
<td>15°</td>
<td>InGaAlP - Indium Gallium Aluminum Phosphide</td>
</tr>
<tr>
<td>00G</td>
<td>G3/G4/G5</td>
<td>565</td>
<td>High Eff. Green</td>
<td>2.1</td>
<td>200mcd @ 20mA</td>
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<td>GaP/GaP - Gallium Phosphide/Gallium Phosphide</td>
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<td>PG350</td>
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<td>0PG</td>
<td>PG5</td>
<td>555</td>
<td>Pure Green</td>
<td>2.1</td>
<td>80mcd @ 20mA</td>
<td>15°</td>
<td>GaP/GaP - Gallium Phosphide/Gallium Phosphide</td>
</tr>
<tr>
<td>0AG</td>
<td>AG10K</td>
<td>525</td>
<td>Aqua Green</td>
<td>3.5</td>
<td>10,000mcd @ 20mA</td>
<td>15°</td>
<td>SiC/GaN - Silicon Carbide/Gallium Nitride</td>
</tr>
<tr>
<td>0BG</td>
<td>BG2K</td>
<td>505</td>
<td>Blue Green</td>
<td>3.5</td>
<td>2000mcd @ 20mA</td>
<td>45°</td>
<td>SiC/GaN - Silicon Carbide/Gallium Nitride</td>
</tr>
<tr>
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<td>470</td>
<td>Super Blue</td>
<td>3.6</td>
<td>3000mcd @ 20mA</td>
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<td>SiC/GaN - Silicon Carbide/Gallium Nitride</td>
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<tr>
<td>00B</td>
<td>UB500</td>
<td>430</td>
<td>Ultra Blue</td>
<td>3.8</td>
<td>100mcd @ 20mA</td>
<td>15°</td>
<td>SiC/GaN - Silicon Carbide/Gallium Nitride</td>
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