

# PAR56

DIV-PAR56-75VDC  
SMART LAMP

## Applications

Locomotive Headlight  
Locomotive Ditchlight



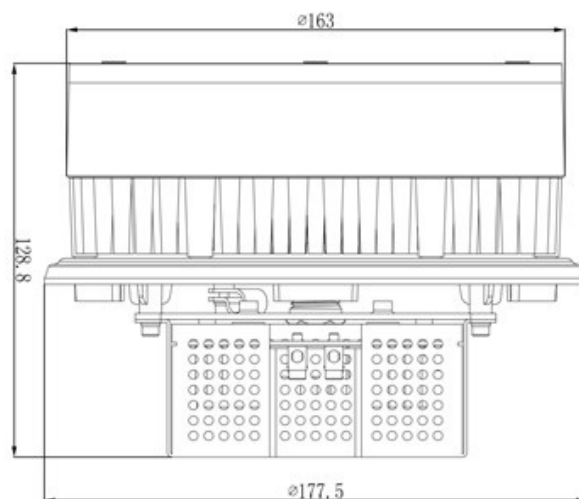
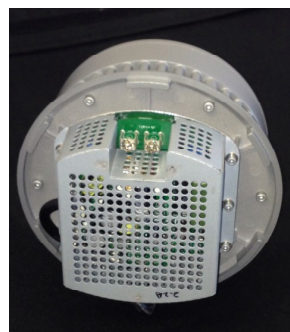
## Specifications

|                   |                                       |
|-------------------|---------------------------------------|
| Base Options      | Fits EMD and GE Diesel                |
| External Driver   | Not Required                          |
| Dimmable          | YES, High and Low Beam                |
| Operating Voltage | 75VDC,<br>+Custom voltages            |
| Materials         | Plate Glass Front,<br>Cast Metal Base |
| Rated Life        | 60,000 hours                          |
| Weight            | 2.229 Kilograms                       |
| Size / Measure    | Diameter: 177.5mm<br>Length: 128.8mm  |

### Safety / Reliability

Our PAR 56 Smart Lamp will strobe for 5 minutes upon power up, if and when the lamp determines that it is operating below regulatory requirements of 200,000 candela for luminance. This provides a visual indication of failure and required maintenance. Additionally, this allows for continuation of the current mission.

|                   |                                                                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Power Consumption | 55W                                                                                                                                        |
| LED Configuration | 7 LED                                                                                                                                      |
| Color/Brightness  | Warm White: 3000lm<br>Cool White: 5000lm<br>260,000+ candela at<br>center beam 16,000<br>candela at 7 degrees<br>500 candela at 20 degrees |



For additional product information, please contact us.

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# PAR56

DIV-PAR56-75VDC

## Applications

Locomotive Headlight

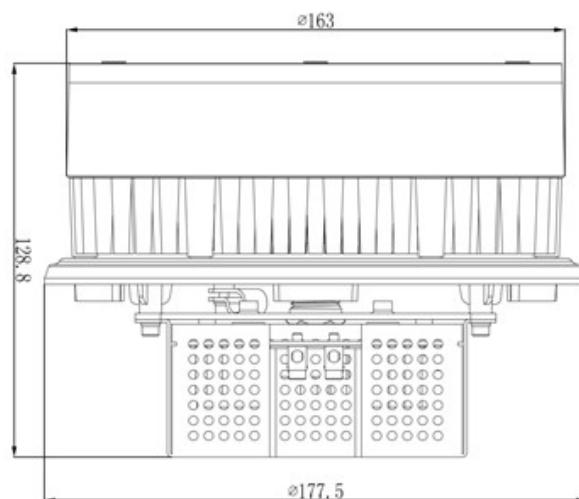
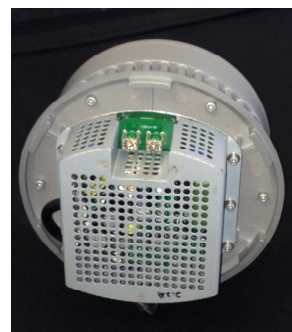
Locomotive Ditchlight



## Specifications

|                   |                                       |
|-------------------|---------------------------------------|
| Base Options      | Fits EMD and GE Diesel                |
| External Driver   | Not Required                          |
| Dimmable          | YES, High-Med-Low                     |
| Operating Voltage | 75VDC,<br>+Custom voltages            |
| Materials         | Plate Glass Front,<br>Cast Metal Base |
| Rated Life        | 60,000 hours                          |
| Weight            | 2.229 Kilograms                       |
| Size / Measure    | Diameter: 177.5mm<br>Length: 128.8mm  |

|                   |                                                                                                                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------|
| Power Consumption | 55W                                                                                                                  |
| LED Configuration | 7 LED                                                                                                                |
| Color/Brightness  | Cool White: 5000lm<br>260,000+ candela at<br>center beam 16,000<br>candela at 7 degrees<br>500 candela at 20 degrees |



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# PAR-46 LED HEADLIGHT

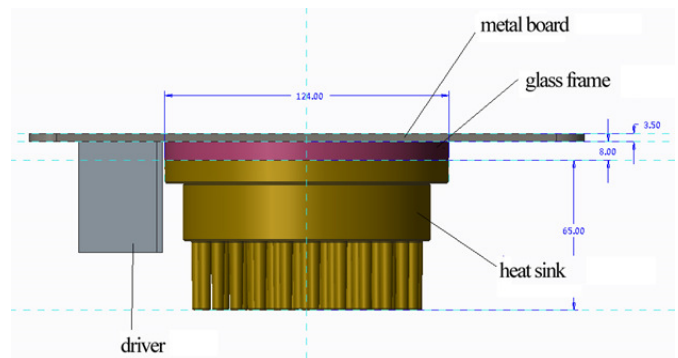
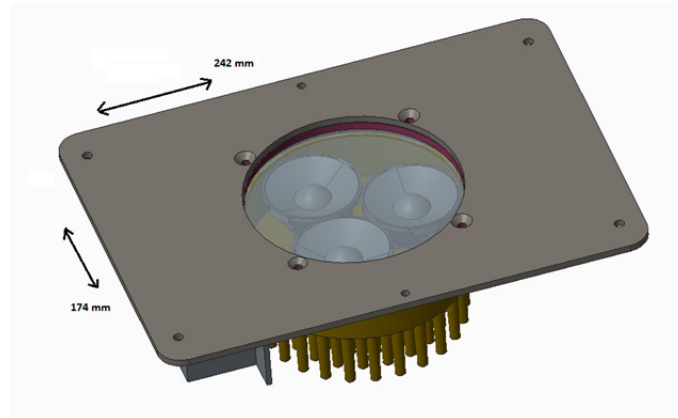
DIV-PAR-46-(24/110)

## Applications

- ▶ PAR-46 Headlight for Locomotives

## Specifications

|                     |                        |
|---------------------|------------------------|
| Driver              | Included               |
| Operating Voltage   | 110VDC or 24VDC        |
| Lighting Angles     | EU compliant           |
| Materials           | Aluminum / Plate Glass |
| Rated Life          | 50,000+ hours          |
| Operating Temp      | -40 to 60 Celsius      |
| Size / Measure (mm) |                        |



## Power Configurations

|                    |                 |
|--------------------|-----------------|
| Power Consumption  | 15W             |
| LED Configuration  | 3 LED           |
| Brightness / Color | 60,000 Candelas |

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# Red Locomotive LED Marker Light

DIV-PAR46-60-2R-LED

**Replacement for the typical halogen PAR60-2R**

**Uses 4.8W opposed to 60W**

## Applications

- ▶ Locomotive Marker Light

## Optical Features

|                        |                                       |
|------------------------|---------------------------------------|
| <b>Color</b>           | Red                                   |
| <b>LED Wavelength</b>  | 660 nm                                |
| <b>Light Intensity</b> | Exceeds 100 Candles Industry Standard |
| <b>Color Options</b>   | White, Yellow, Blue, Green            |
| <b>Light Direction</b> | Front                                 |
| <b>Base</b>            | Screw Terminal                        |
| <b>Warranty</b>        | 3 years                               |

Minimum 100 candlelight output throughout the entire voltage range

## Electrical Features

|                                   |                                                                                         |
|-----------------------------------|-----------------------------------------------------------------------------------------|
| <b>Operating Voltage Range</b>    | 10 to 85 VDC                                                                            |
| <b>Voltage Protection</b>         | Breakdown Voltage - VBD 120 VDC<br>Surge Current (IRMS) - 9.1ARMS<br>Peak Power - 1500W |
| <b>Inverse Voltage Protection</b> | Non-Polarized                                                                           |
| <b>Connection</b>                 | As per Customer Requirement                                                             |

## Specifications

|                            |                            |
|----------------------------|----------------------------|
| <b>Primary Application</b> | Train, Locomotive          |
| <b>Volts</b>               | 10-85VDC                   |
| <b>Watts</b>               | 4.8W                       |
| <b>Measurements</b>        | Typical PAR46 measurements |
| <b>LED Quantity</b>        | 72                         |
| <b>Base</b>                | Screw Terminal             |
| <b>Warranty</b>            | 3 years                    |



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# GLOBE – UNIVERSAL Locomotive LED

DIV-UG-6W-75VDC

## Applications

- ▶ Indoors / Cabin
- ▶ Outdoor Step and Ground light
- ▶ Number Boards
- ▶ Watertight

## Specifications

|                          |                               |
|--------------------------|-------------------------------|
| <b>Driver</b>            | Not Required                  |
| <b>Operating Voltage</b> | 75VDC (or custom)             |
| <b>Lighting Angles</b>   | 360 degree Axial              |
| <b>Materials</b>         | Aluminum / PVC                |
| <b>Rated Life</b>        | 50,000 hours                  |
| <b>Operating Temp</b>    | -30 to 60 Celsius             |
| <b>Size / Measure</b>    | BC22 and BA15d also available |

Diameter: 55mm

Length: 100mm - E27

## Power Configurations

|                          |                                                  |
|--------------------------|--------------------------------------------------|
| <b>Power Consumption</b> | 6W                                               |
| <b>LED Configuration</b> | SMD LED                                          |
| <b>Color/Brightness</b>  | Cool White: 540lm<br><i>All colors available</i> |



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# 8W Semi-Globe - Rail

Model : DIV-SG-8W-70-170VDC

## Applications

- ▶ Indoors
- ▶ Cabin
- ▶ Outdoor

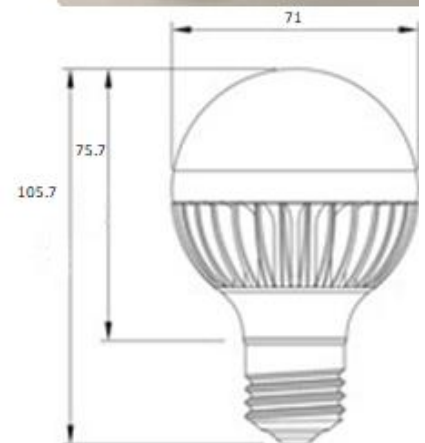
## Specifications

|                          |                   |
|--------------------------|-------------------|
| <b>Operating Voltage</b> | 70-170VDC         |
| <b>Base Options</b>      | E26/27, BC22,     |
| <b>Materials</b>         | Aluminum / PVC    |
| <b>Rated Life</b>        | >50,000 hours     |
| <b>Operating Temp</b>    | -30 to 60 Celsius |
| <b>Size / Measure</b>    | 71x105.7mm        |
| <b>Light Angles</b>      | 180 degree        |
| <b>Power Factor</b>      | >0.95             |

## Power Configurations

|                          |                           |
|--------------------------|---------------------------|
| <b>Power Consumption</b> | 8W                        |
| <b>Color/Brightness</b>  | 930lm<br>Cool White 5000K |

*Contact us for custom colors*



**For additional product information, please contact us.**

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# 6W Wide Globe - Rail

DIV-WIDEGLOBE-6W-RAIL

## Applications

- Indoors
- Outdoor Undercover

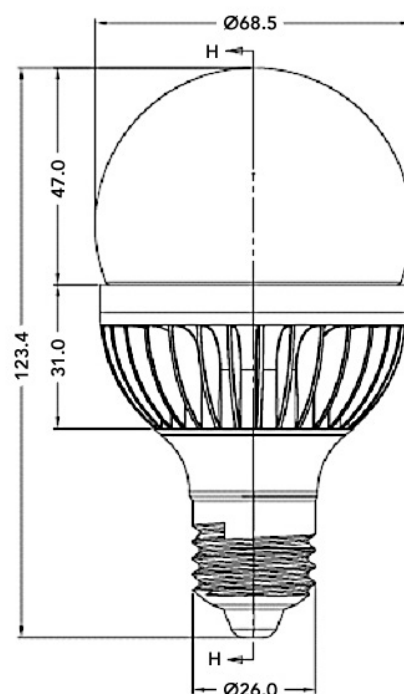
## Specifications

|                          |                          |
|--------------------------|--------------------------|
| Base Options             | E26, E27                 |
| External Driver Required | Not Required             |
| Dimmable                 | No                       |
| Operating Voltage        | 75V DC                   |
| Materials                | Aluminum and PVC/Acrylic |
| Lighting Angles          | 280°                     |
| Power Factor             | > 0.95                   |
| Rated Life               | 50,000 hours             |
| CRI                      | >75                      |
| Weight                   | 130 grams                |
| Measurements             | Ø68.5x123.4mm            |

## Power Configurations (Detail)

|                    |                      |
|--------------------|----------------------|
| Power Consumption  | 6W                   |
| LED Configuration  |                      |
| Chip Manufacturer  | Kingbright           |
| Colour/Brightness* | Cool White - 550+ lm |

*\*Other colours and customisations available. Please contact us for details.*



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# 6W Semi Globe - Rail

DIV-SG-6W-75VDC

## Applications

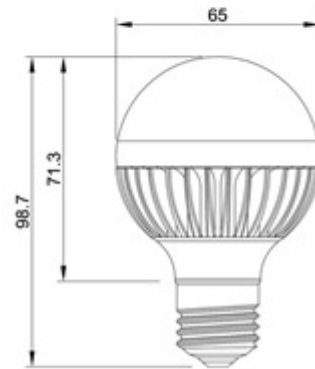
- ▶ Indoors / Cabin
- ▶ Outdoor

## Specifications

|                          |                            |
|--------------------------|----------------------------|
| <b>Driver</b>            | Not Required               |
| <b>Base Options</b>      | E26/27, BC22               |
| <b>Power factor</b>      | >0.95                      |
| <b>Operating Voltage</b> | 60-90VDC,(wider available) |
| <b>Lighting Angles</b>   | 180 degree                 |
| <b>Materials</b>         | Aluminum / PVC             |
| <b>Rated Life</b>        | 50,000 hours               |
| <b>Operating Temp</b>    | -30 to 60 Celsius          |
| <b>Size / Measure</b>    | Ø65x98.7mm                 |

## Power Configurations

|                          |                                                  |
|--------------------------|--------------------------------------------------|
| <b>Power Consumption</b> | 6W                                               |
| <b>LED Configuration</b> | 20 LED                                           |
| <b>Color/Brightness</b>  | Cool White: 560lm<br><i>All colors available</i> |



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# Corn Cobb Locomotive LED

DIV-CC-6W-75VDC

## Applications

- ▶ Indoors / Cabin
- ▶ Outdoor Undercover
- ▶ Number Boards

## Specifications

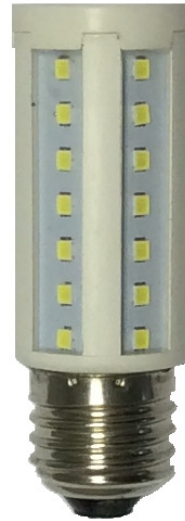
|                          |                   |
|--------------------------|-------------------|
| <b>Driver</b>            | Not Required      |
| <b>Operating Voltage</b> | 75VDC             |
| <b>Lighting Angles</b>   | 360 degree Axial  |
| <b>Materials</b>         | Aluminum / PVC    |
| <b>Rated Life</b>        | 50,000 hours      |
| <b>Operating Temp</b>    | -30 to 60 Celsius |
| <b>Size / Measure</b>    |                   |

Diameter: 32mm

Length / base type: 86.5mm - Ba15d  
90.0mm - E27  
91.0mm - BC22

## Power Configurations

|                          |                                                  |
|--------------------------|--------------------------------------------------|
| <b>Power Consumption</b> | 6W                                               |
| <b>LED Configuration</b> | 42 SMD LED                                       |
| <b>Color/Brightness</b>  | Cool White: 540lm<br><i>All colors available</i> |



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# Corn Cobb

DIV-CC-3W RAIL

## Applications

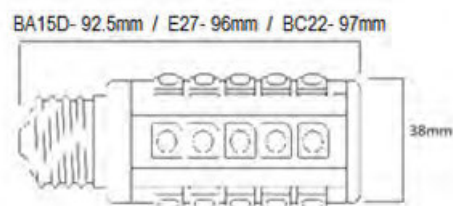
- ▶ Indoors / Cabin
- ▶ Outdoor Undercover
- ▶ Number Boards

## Specifications

|                   |                                                                           |
|-------------------|---------------------------------------------------------------------------|
| Base Options      | E26, E27, Ba15d, BC22                                                     |
| External Driver   | Not Required                                                              |
| Dimmable          | No                                                                        |
| Operating Voltage | 12V, 24V, 75VDC, 110VAC<br>+Wider voltages                                |
| Lighting Angles   | 360 degree                                                                |
| Materials         | High Test Plastic,<br>Metal Base                                          |
| Rated Life        | 50,000 hours                                                              |
| Weight            | 70 grams                                                                  |
| Size / Measure    | Diameter: 38mm<br>Length: 92.5mm - Ba15d<br>96.0mm - E27<br>97.0mm - BC22 |

## Power Configurations

|                   |                                                  |
|-------------------|--------------------------------------------------|
| Power Consumption | 3W                                               |
| LED Configuration | 54 LED                                           |
| Color/Brightness  | Cool White: 270lm<br><i>All colors available</i> |



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# Locomotive LED Lamp

DIV-MCC60

## Applications

- ▶ In Cab / Signal Tower / Engineer Reading lamp
- ▶ 30Watt 'short' bayonet replacement

## Specifications

|                   |                                       |
|-------------------|---------------------------------------|
| Base Options      | BA15d                                 |
| External Driver   | Not Required                          |
| Dimmable          | No                                    |
| Operating Voltage | 12V, 24V, 75V                         |
| Lighting Angles   | 360 degree                            |
| Materials         | Aluminum Alloy, PVC                   |
| Rated Life        | 40,000 hours                          |
| Working Temp      | -20°C ~ +50°C                         |
| Size / Measure    | Ø25x55mm / 60mm (long neck available) |



## Power Configurations

|                   |                   |
|-------------------|-------------------|
| Power Consumption | 3.2W              |
| LED Configuration | 60 x SMD          |
| Color/Brightness  | Cool White: 300lm |

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# Swivel LED Reading Light

DIV-SWIVEL-READING-3W

## Applications

- Indoors
- Ultra Rugged Indoor

## Specifications

|                                 |                               |
|---------------------------------|-------------------------------|
| <b>Base Options</b>             | Fixture (included)            |
| <b>External Driver Required</b> | Yes                           |
| <b>Dimmable</b>                 | Yes                           |
| <b>Operating Voltage</b>        | 75V DC                        |
| <b>Materials</b>                | Aluminum w/ Rugged Components |
| <b>Lighting Angles</b>          | 45°                           |
| <b>Rated Life</b>               | 50,000 hours                  |
| <b>Working Temperature</b>      | -40 °C ~ +85 °C               |
| <b>Measurements</b>             | Ø90x45mm                      |



## Power Configurations (Detail)

|                           |                                          |
|---------------------------|------------------------------------------|
| <b>Power Consumption</b>  | 3W                                       |
| <b>LED Configuration</b>  |                                          |
| <b>Chip Manufacturer</b>  |                                          |
| <b>Colour/Brightness*</b> | Warm White - 200lm<br>Cool White - 200lm |

*\*Other colours and customisations available. Please contact us for details.*

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# BetterLED 6V Lantern Refit Bulb

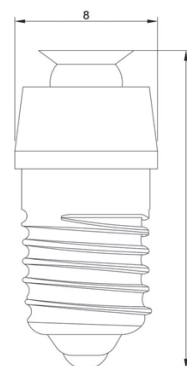
DIV-LANTERN-BETTERLED

## Applications

- Torch / Lantern Lighting
- Security and Inspection Lighting

## Specifications

|                          |                      |
|--------------------------|----------------------|
| Base Options             | PR, Edison           |
| External Driver Required | Not Required         |
| Dimmable                 | No                   |
| Operating Voltage        | 6V                   |
| Materials                | Aluminum and Ceramic |
| Power Factor             | > 0.95               |
| Rated Life               | 50,000 hours         |
| CRI                      | >75                  |
| Weight                   | 10 grams             |
| Measurements             | Ø8x20mm              |



## Power Configurations (Detail)

|                    |                   |
|--------------------|-------------------|
| Power Consumption  | 1W                |
| LED Configuration  | 1x1W              |
| Chip Manufacturer  | EVERLIGHT         |
| Colour/Brightness* | Pure White - 80lm |

*\*Other colours and customisations available. Please contact us for details.*

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# Nato 3V Flashlight LED Refit Bulb

DIV-LANTERN-NATO

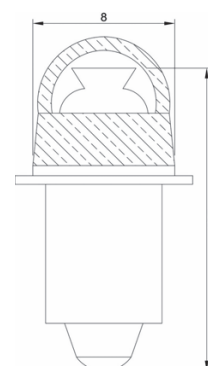
## Applications

- Torch / Lantern Lighting
- Security and Inspection Lighting



## Specifications

|                          |                      |
|--------------------------|----------------------|
| Base Options             | PR, Edison           |
| External Driver Required | Not Required         |
| Dimmable                 | No                   |
| Operating Voltage        | 3V                   |
| Materials                | Aluminum and Ceramic |
| Power Factor             | > 0.95               |
| Rated Life               | 50,000 hours         |
| CRI                      | >75                  |
| Weight                   | 10 grams             |
| Measurements             | Ø8x20mm              |



## Power Configurations (Detail)

|                    |                   |
|--------------------|-------------------|
| Power Consumption  | 1W                |
| LED Configuration  | 1x1W              |
| Chip Manufacturer  | EVERLIGHT         |
| Colour/Brightness* | Pure White - 80lm |

*\*Other colours and customisations available. Please contact us for details.*

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