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**RL-11-IRF**

# Infrared Lens Filter - Coated Borosilicate - 850nm Cut Off for RL-11 HID Spotlight - LENS ONLY

**Product ID: 444**



**Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.**

**RL-11-IRF Infrared Lens Filter**
**Use With: R-11 Series Lights**
**Wavelength: 850nM**
**Materials: Machined Aluminum - Pyrex™ Lens**
**Efficiency 93% Light Energy Passage**
**Hardware: Steel Bracket - Thumb Nuts**
**Specs: Milspec**

**Ratings**

**Special Orders- Requirements**
Contact us for special requirements
**Toll Free: 1-800-369-6671**
**Intl: 1-214-616-6180**
**Fax: 1-903-498-3364**
**E-mail: sales@larsonelectronics.com**

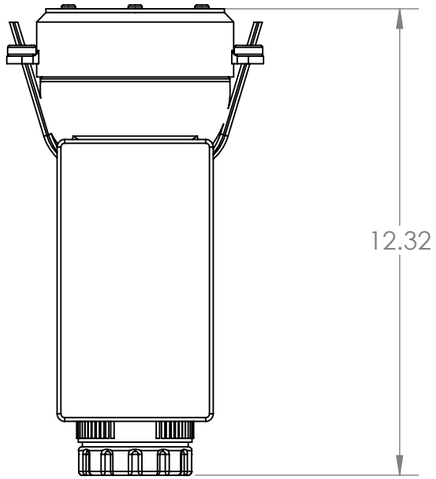
**Made in The USA**

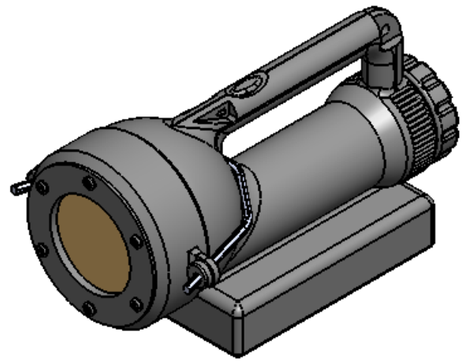
**Infrared cut-off lens cover for R-11 HID light filters lamp output to allow only infrared light energy to pass. Produces invisible infrared illumination in the 850nM range which requires the use of night vision devices to be seen.**

850 nm cut off infrared lens blocks the projection of all visible light. The borosilicate substrate (commonly known as Pyrex) has the durability of tempered glass and is coated on both sides. The lens is sealed into the machined aluminum housing. The housing is attached via bracket and thumb nuts. The lens and lens holder are insulated/sealed with high temperature silicone and high temperature silicone gaskets to prevent light leakage.

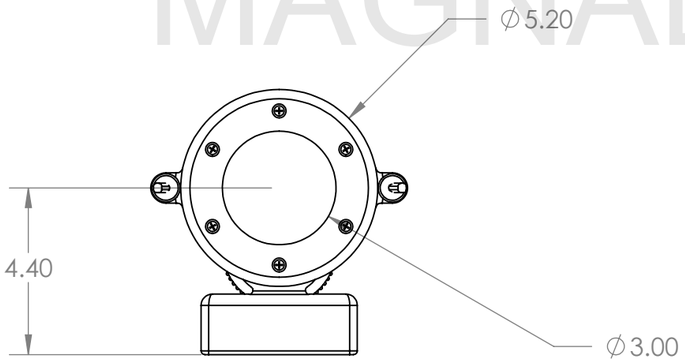
The lens holder assembly can be attached and removed quickly. Once secured, the unit can subjected to excessive vibration without risk of the lens exposing the visible light. This milspec unit enables 93% of light energy to pass through the filter. Plastic infrared filter lenses usually allow only 20% of the light energy to pass. This means that the RL-11 HID light will only lose 7% of its 3000 foot beam due to the lens. Other lights using the plastic lens will lose up to 80% of the transmission length.

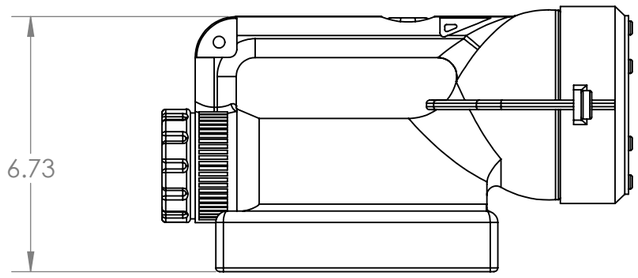
The light output produced with the use of this lens is invisible to the naked eye. Night vision cameras, goggles and similar devices are needed to view the output from this lens.



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| | |
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| NEXT ASSY | USED ON |
| APPLICATION | |

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

| | NAME | DATE |
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| DRAWN | | |
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| ENG APPR. | | |
| MFG APPR. | | |
| Q.A. | | |

COMMENTS:

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TITLE:

# A3100 and Filter

| SIZE | DWG. NO. | REV |
|---|---|---|
| B | A3100 and filter | |

| SCALE: 1:4 | WEIGHT: | SHEET 1 OF 1 |
|---|---|---|

# Frequently Asked Questions (FAQ)