## Plan #

4LUN04R0006

### R.C.S. Measurements

We guarantee the specifications of the reflector according to plan # 4LUN04R0006. The reflector is delivered with 2 points of measurement (0° and 10° of bistatism in the axis). The delivered measurement corresponds to the measurement of the lens alone. Moreover, the reflector can be used from S band to Ku band. Further measurement options (patterns, other frequencies...) on specific request.

### Response

Bistatic

As shown on this drawing, the reflected power at an angle of bistatism different from 0° is different from the reflected power in the axis. The larger the aperture of the pattern (large cone of response), the better the results of the reflector in bistatism.

### Polarization

Rectilinear. The reflected wave is on the same plane as the wave interrogating the reflector

### Metallization

Metallization on ± 70°

The label of metallization locates the plane where R.C.S. measurements have been done.

### Radom

Waterproof composite protection (also against salted ambiance). Acceleration – vibration tests have been passed allowing mounting in supersonic targets

### Standard fixing (in option)

Plan 4LUN04D0005

Development of any other fixing at request

### Specific unit packaging


### Precautions of use

The response of the lens depends on the environment.

- Avoid thick fairing
- Avoid fairing made of dielectrical material with important losses
- Avoid any object (especially metallic) positioned between the lens and the radar (strap, screw...)
- Take care in mounting

![OK](radar)

![Bad](radar)

**Tect Electronics**

The authorized distributor in the Greater China Region

ISO 9001

BUREAU VERITAS Certification

N° 1576 168
### LUNEBERG REFLECTORS
**BISTATIC**
**RECTILINEAR POLARIZATION**

**Minimum Radar Cross Section guaranteed (sqm)**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Frequency range</th>
<th>Measuring frequency (GHz)</th>
<th>R.C.S. in the axis</th>
<th>R.C.S. at 10° of bistatism</th>
<th>Diameter of the reflector without fixing (inches)</th>
<th>Diameter of the reflector without fixing (cm)</th>
<th>Weight without fixing (kg)</th>
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<tbody>
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</table>

**Diagram:**
- **R.C.S.**
- **Azimuth angle in degrees**
- **0° of bistatism**
- **10° of bistatism**

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