The Lumacurve Airfield Sign has a 50 year life. The legend panels (sign faces) are maintenance items that must be replaced as they deteriorate. Panel life will vary greatly depending on environmental conditions. The information below should serve as guidelines in estimating typical time of panel replacements and determining maintenance budgets.

Typical Panel Life

Typical panel life is between 3 and 10 years. A panel 1-3 years old is typically considered newer and should not need replacement. A panel 3-7 years old will need to be inspected. Based on the environmental conditions and the direction it faces, a panel this age may need replacement. Panels 10 years old or older have typically reached maximum life and should be replaced.

Two elements that play the largest role in determining an airfield sign panel's life are (1) the weather at your airport or climate conditions and (2) the direction the sign faces. Cooler climates with more moderate weather conditions typically lead toward longer panel life. Hot, arid climates with lots of direct sunlight lead toward shorter panel life.

Climate Conditions: (see map)

- **Blue Area**, slower fading/ deterioration
  
  Results: increased panel life

- **Yellow Area**, average fading/ deterioration
  
  Results: average panel life

- **Red Area**, accelerated fading/ deterioration
  
  Results: decreased panel life

Fading

Loss of color vibrancy (fading) significantly reduces a sign's effectiveness in providing situational awareness to pilots and ground vehicles. This is a principal reason for panel replacement. Signs that face south that are exposed to more direct sunlight throughout the day typically experience accelerated panel fading and deterioration. Signs that face north generally get less sun exposure and experience slower fading and panel deterioration. East and West facing signs exhibit average fading and deterioration.

To evaluate fading, use the Lumacurve “Faded Panel Guide” included in the panel audit kit.

**Direction of Sign Face:**

- North facing: Exhibits *slower* fading and deterioration
- West & East facing: Exhibits *average* fading and deterioration
- South facing: Exhibits *accelerated* fading and deterioration

Visual Evaluation

*We recommend doing a visual evaluation of each of your signs annually. Use the form on the following page to evaluate and capture the condition of each sign face. Once complete, call our customer service department at 1-800-258-1997 (EST) to discuss your situation and to identify potential next steps.*

For use with Lumacurve airfield signs only! This guide reflects manufacturer recommendations and should be used by airfield maintenance personnel as guidelines only in determining Lumacurve legend panel life.

Not for use with airfield signs not manufactured by Lumacurve. Not for use in any official capacity such as reference criteria for state or federal inspections.
Evaluating Legend Panels for Fading and Deterioration
Available online at www.lumacurve.com/resources

For use with Lumacurve airfield signs only! This guide reflects manufacturer recommendations and should be used by airfield maintenance personnel as guidelines only in determining Lumacurve legend panel life.
Not for use with airfield signs not manufactured by Lumacurve. Not for use in any official capacity such as reference criteria for state or federal inspections.

Sign #

Location: ____________________________________________

✓ Check box above legend to designate significant signs of wear/ issues. Describe issues in notes at bottom.

Front Legend

<table>
<thead>
<tr>
<th></th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
</tr>
</thead>
</table>

Back Legend

<table>
<thead>
<tr>
<th></th>
<th>e</th>
<th>f</th>
<th>g</th>
<th>h</th>
</tr>
</thead>
</table>

Small letter denotes panel position for quick reference. e.g. "F" position is the back of the sign, second panel in from left.

Use “Faded Panel Guide” included in audit kit and document the shade (1 through 4) of color vibrancy for each panel.

<table>
<thead>
<tr>
<th>Front</th>
<th></th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>Back</th>
<th>e</th>
<th>f</th>
<th>g</th>
<th>h</th>
</tr>
</thead>
</table>

Color Vibrancy (shades 1 through 4)

1  2  3  4

Recommended course of action:

- Replace (critical)
- Replace
- Inspect
- Nothing

Panels

- Any Chipping or cracking?
  - Course of Action: Nothing, Inspect, Replace
  - Panel position

- Sheeting delamination or peeling?
  - Course of Action: Nothing, Inspect, Replace
  - Panel position

- Sheeting flaking or degrading?
  - Course of Action: Nothing, Inspect, Replace
  - Panel position

- Dissimilar shade of colors across sign modules?
  - Course of Action: Nothing, Inspect, Replace
  - Panel position

- Can you discern red from yellow?
  - (at night from 800 feet, per FAA AC 150/5345-44J requirements)

Tracks (joints between modules)

- Any fading (noticeable color discontinuity at joint)?
  - Course of Action: Nothing, Inspect, Replace
  - Panel position

- Any chipping or cracking?
  - Course of Action: Nothing, Inspect, Replace
  - Panel position

- Any warping or twisting?
  - Course of Action: Nothing, Inspect, Replace
  - Panel position

Additional Considerations

- Do white numbers on red panels have black outlines?
  - Course of Action: Yes, No

- Is the sign cabinet sealed adequately?
  - Course of Action: Yes, No

- Is the rubber gasketing functioning properly?
  - Course of Action: Yes, No

- Is there noticeable light leakage at night?
  - Course of Action: Yes, No

Notes:

---

Lumacurve Airfield Signs
9115 Freeway Drive, Macedonia, OH 44056
800-258-1997 • www.lumacurve.com • (330) 467-2076 fax
Lumacurve is a brand of Standard Signs, Inc.