

- **GPS** – Brightness values are determined by the display's location using GPS coordinates. Enter the latitude and longitude directly or click **Lookup** to set the display location. Nighttime brightness is set at 0% and daytime brightness is 100%. The transition from night to day starts 30 minutes before sunrise and finishes 10 minutes before sunrise. The transition from day to night starts 10 minutes after sunset and finishes 30 minutes after sunset. If GPS coordinates are not set, the default is the **Minimum Brightness** setting; refer to **Brightness Limits (p.17)**
- **Manual** – Brightness values are set with the slider. The display will continue to run at this brightness level until changed by the user.

## Brightness Limits

Select the **Mode** to determine the minimum and maximum display brightness for either the whole day (24-hours) or specific times of the day and night.

### Limit Range

Set the display's minimum and maximum brightness for a 24-hour period with the slider in the **Limit Range** mode. These limits do not change based on time of day. Refer to **Figure 27**.

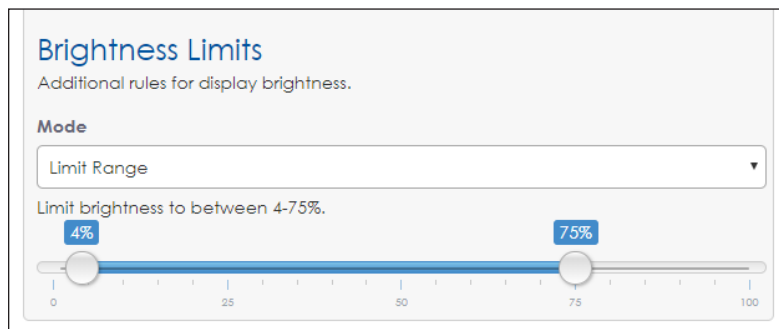


**Figure 27:** Brightness Limits – Limit Range

### Day and Night

Set the display's minimum and maximum brightness values based on the time of day in the **Day and Night** mode. Set the time of day as the current sunrise/sunset times or enter specific times of the day.

**Note:** To set the brightness limits based on the sunrise and sunset, the status file retrieves these times. If they cannot be retrieved, the firmware defaults to a value of 6:00 AM for sunrise and 9:00 PM for sunset.

Set the transition time between brightness levels (how long it takes for the sign to change brightness levels between the day and night settings).

The example in **Figure 28** shows brightness levels starting to transition from nighttime to daytime limits 60 minutes before sunrise and completing the transition at 5 minutes before sunrise. The settings also show the brightness level starting to transition from daytime to nighttime limits 10 minutes before sunset and completing the transition at 15 minutes after sunset.

**Note:** Time-based dimming control depends on GPS coordinates. The interface will not allow time-based brightness limiters if GPS coordinates are not set. To set GPS coordinates, refer to **Brightness Manager (p.16)**.