1. Photinus pyralis

The flight path of $P$. pyralis is vertically looping, with a single long flash on the forward and upward portion of each loop, resulting in a "J" pattern.
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## 2. Photinus macdermotti (bonus)

Males fly straight, level, and slowly, 1-5 meters above the ground. They emit two slow flashes every 1-2 meters or every 2 seconds, flying upward on the second flash.

3. Photinus consanguineous

Males fly straight and slowly, bobbing up every 0.5 meters or so. They emit short ( 0.7 seconds) flashes at the start and end of each jump in their flight path.

## 4. Photinus marginellus

The flight path for $P$. marginellus entails hopping up and down low in the brush, with a short, 0.5 -second flash at the end of each "hop." Flashes are about 3 seconds apart.

## 5. Photinus brimleyi

Photinus brimleyi fly rapidly in straight or loosely meandering paths at a constant height. While flying forward, they begin to flash, and then during light emission, they stop suddenly and hover for a moment before extinguishing their light and rushing forward again. This creates the appearance of a jagged flight path.


## 6. Photinus collustrans

Males alternate between flying straight and flying in a lateral arch or in a sideways loop (as though dodging an obstacle). They flash during each lateral deviation from their straight path for about 0.4 seconds per flash.


## 7. Photinus granulatus

This species flies about 1 meter off of the ground, flashing every other second while jerking back and forth to create zigzag patterns.


## 8. Photinus ignitus

Males fly straight, level, and slowly, about 1-2 meters above the ground, emitting brief (0.2 seconds) flashes without changing speed. Flashes occur every 5.1 seconds.

## 9. Photinus consimilis

These males flash late into the evening. They fly slowly, emitting 4-9 quick flashes every 10 seconds, sometimes stopping and hovering on the last flash. They may also produce 2-3 slow flashes, emitted during level flight every $2-6$ seconds.

## 10. Photinus carolinus

The flashes of this species are very similar to the flashes of $P$. consimilis, with a slightly longer interval between sets of flashes of about 13 seconds.

