

# Orchid Temperature Reference

## Natural Light Range:

**Red (620-750 nanometers)** enhances the production of budding and flowering.

**Blue (450-495 nanometers)** develops more vegetative growth.

Foot Candles	Minimum Night	Maximum Day	Species of Orchids
Cool 1200-2000 fc	50° F (10° C)	75° F (24° F)	Cymbidium Coelogyne Odontoglossom
Intermediate 2000-3000 fc	55° F (13° C)	86° F (30° C)	Aerangis Cattleyas Cymbidium Epidendrum Maxillaria Paphiopedilum
Warm 3000+ fc.	64° F (18° C)	90° F (32° C)	Angraecum Dendrobium Phalaenopsis Vanda

To convert the fc to lumens, **1 fc is equal to 10.764 lux**, or 10 lumens per square meter.

**CFL Compact Fluorescent Lights:** My recommendation is to go with the normal fluorescent 45 to 60 watts if you have only one or two orchids. If you have a dozen or more, then aim for the 250w, 4 to 12 inches above the shelf. Get a red and blue one, interchange or use both at the same time.

**HID High-Density Lights** If you have a **250W bulb**, then **keep it about a foot away from your orchid**. If it's still too strong, move it to three feet. With the 400W, three to five feet, and so on... Up to the 1000W, which should be almost at ceiling height. If you're not sure which to purchase, go with the **400W**.

## Best Light for Indoor Orchids:

**LED GROW LIGHT with a FULL LIGHT SPECTRUM**