GRO-LUX® Aquarium and Aquarium Wide Spectrum

Fluorescent Lamps for indoor gardening



SYLVANIA's GRO-LUX Aquarium and GRO-LUX Aquarium Wide Spectrum fluorescent lamps provide the essential energy for use in indoor gardening applications. Light provides the energy that plants need to produce food and other substances required for growth and flowering. These lamps provide the types of light that are most beneficial for these essential processes.

GRO-LUX Aquarium lamps provide the right balance of red and blue wavelengths for low-energy plants such as house plants. High-energy plants such as vegetables seem to require more energy in the red portion of the spectrum. The GRO-LUX Aquarium Wide Spectrum lamps or a 50/50 mix of the two types of GRO-LUX lamps may produce the best results for the high-energy plants.

In addition to providing essential energy for growth and maintenance, GRO-LUX lamps bring out the vibrant natural colors of the foliage, flowers and vegetables enhancing their appearance.

Application Information

Applications

For additional information, please call 1-800-LIGHTBULB or visit www.sylvania.com to obtain a copy of the Technical Information Bulletin "Light and Plants".

Fixtures

Contact your local fixture agent for available fixtures.

Ballast Information

Contact your OSRAM SYLVANIA representative for a list of compatible ballasts for GRO-LUX lamps.

Application Notes

- 1. The F15T8, F20T12 & F30T8 lamps are preheat lamps and operate on the same ballasts and require the same starters as other preheat lamps of the same wattages. The lamps may also be operated on the appropriate trigger start ballasts.
- 2. The F40T12 lamps are rapid start lamps and operate on the same ballasts as other F40 rapid start lamps.

Fluorescent lamps for indoor gardening

Provide essential energy for

- Germination, propagation and growth
- Photosynthesis
- Chlorophyll synthesis
- Enhancing vegetation
- Choice of Lamps
 - GRO-LUX Aquarium for plants requiring indirect sunlight
 - GRO-LUX Aquarium Wide Spectrum for plants requiring full sunlight
 - Combination of GRO-LUX Aquarium and GRO-LUX Aquarium Wide Spectrum were appropriate

Product Availability

Wattage	Ordering Description					
15	F15T8/GR0/AQ/RP					
15	F15T12/GR0/AQ/WS/RP					
20	F20T12/GR0/AQ/RP					
20	F20T12/GR0/AQ/WS/RP					
30	F30T8/GR0/AQ/RP					
40	F40T12/GR0/AQ/RP					
40	F40T12/GR0/AQ/WS/RP					

- 3. Low-energy plants require about 15 fluorescent lamp watts per square foot about 12-15 inches above the plants.
- 4. High-energy plants require at least 20 fluorescent lamp watts per square foot about 12-15 inches above the plants.
- 5. Germinating seeds or cuttings being rooted requires about 10 lamp watts per square foot with the lamps about 6-8 inches above the plants.
- 6. For photosynthesis, if using incandescent lamps, you would need 2½ to 3 times the fluorescent wattage to provide PAR values equal to GRO-LUX Aquarium or GRO-LUX Aquarium Wide Spectrum lamps.
- 7. For equal light, if using incandescent lamps, you would need 1½ to 2 times the fluorescent wattage to provide light equal to the GRO-LUX Aquarium lamps and 2 to 2½ times the fluorescent wattage to provide light equal to the GRO-LUX Aquarium Wide Spectrum lamps.



Sample Specification

Lamp(s) shall be (GRO-LUX/Aquarium or GRO-LUX/ Aquarium/Wide Spectrum) lamp(s). Lamps shall provide the red and blue wavelengths of energy needed for photosynthesis, and chlorophyll synthesis in plants and in general, provide the light needed for plants to flourish and look their best.

Ordering and Specification Information

Ordering					Avg. Rated	Initial		
Abbreviation	Watts	Bulb	Base	Length	Life (hrs.)	Lumens	CCT	CRI
	15	TQ	Modium Ri Din	10"	7500	225	NI/A	N/A
								N/A
								N/A
								N/A
					- /			89
F40T12/GR0/AQ/WS/RP	40	T12	Medium Bi-Pin	48"	20.000	1875		89
	Abbreviation F15T8/GR0/AQ/RP F20T12/GR0/AQ/RP F30T8/GR0/AQ/RP F40T12/GR0/AQ/RP F20T12/GR0/AQ/WS/RP	Abbreviation Watts F15T8/GR0/AQ/RP 15 F20T12/GR0/AQ/RP 20 F30T8/GR0/AQ/RP 30 F40T12/GR0/AQ/RP 40 F20T12/GR0/AQ/RP 20	Abbreviation Watts Bulb F15T8/GR0/AQ/RP 15 T8 F20T12/GR0/AQ/RP 20 T12 F30T8/GR0/AQ/RP 30 T8 F40T12/GR0/AQ/RP 40 T12 F20T12/GR0/AQ/RP 40 T12 F20T12/GR0/AQ/RP 20 T12	AbbreviationWattsBulbBaseF15T8/GR0/AQ/RP15T8Medium Bi-PinF20T12/GR0/AQ/RP20T12Medium Bi-PinF30T8/GR0/AQ/RP30T8Medium Bi-PinF40T12/GR0/AQ/RP40T12Medium Bi-PinF20T12/GR0/AQ/WS/RP20T12Medium Bi-Pin	AbbreviationWattsBulbBaseLengthF15T8/GR0/AQ/RP15T8Medium Bi-Pin18"F20T12/GR0/AQ/RP20T12Medium Bi-Pin24"F30T8/GR0/AQ/RP30T8Medium Bi-Pin36"F40T12/GR0/AQ/RP40T12Medium Bi-Pin48"F20T12/GR0/AQ/RP20T12Medium Bi-Pin48"	Abbreviation Watts Bulb Base Length Life (hrs.) F15T8/GR0/AQ/RP 15 T8 Medium Bi-Pin 18" 7500 F20T12/GR0/AQ/RP 20 T12 Medium Bi-Pin 24" 9000 F30T8/GR0/AQ/RP 30 T8 Medium Bi-Pin 36" 7500 F40T12/GR0/AQ/RP 40 T12 Medium Bi-Pin 48" 20,000 F20T12/GR0/AQ/WS/RP 20 T12 Medium Bi-Pin 24" 9000	Abbreviation Watts Bulb Base Length Life (hrs.) Lumens F15T8/GR0/AQ/RP 15 T8 Medium Bi-Pin 18" 7500 325 F20T12/GR0/AQ/RP 20 T12 Medium Bi-Pin 24" 9000 480 F30T8/GR0/AQ/RP 30 T8 Medium Bi-Pin 36" 7500 800 F40T12/GR0/AQ/RP 40 T12 Medium Bi-Pin 48" 20,000 1200 F20T12/GR0/AQ/WS/RP 20 T12 Medium Bi-Pin 24" 9000 750	Abbreviation Watts Bulb Base Length Life (hrs.) Lumens CCT F15T8/GR0/AQ/RP 15 T8 Medium Bi-Pin 18" 7500 325 N/A F20T12/GR0/AQ/RP 20 T12 Medium Bi-Pin 24" 9000 480 N/A F30T8/GR0/AQ/RP 30 T8 Medium Bi-Pin 36" 7500 800 N/A F40T12/GR0/AQ/RP 40 T12 Medium Bi-Pin 48" 20,000 1200 N/A F20T12/GR0/AQ/WS/RP 20 T12 Medium Bi-Pin 24" 9000 750 3400K

Ordering Guide

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F	40	T12	1	GRO	1	AQ	1	WS	1	RP
Fluorescent	Wattage: 15, 20, 30 or 40 watts	Tubular glass 12/8" (1.5") diameter		GRO-LUX		Aquarium		Wide Spectrum		Retail Package

Dimensions

	(A) MOL (in)	(B)	(C)	(D) Diameter (in)
F15T8	17.91"	17.50"	17.22"	1.10"
F20T12	23.78"	23.50"	23.22"	1.59"
F30T8	35.78"	35.50"	35.22"	1.10"
F40T12	47.78"	47.50"	47.22"	1.59"

Technical Information

18725 N. Union Street Westfield, IN 46074

Industrial & Commercial

Phone: 1-800-255-5042 Fax: 1-800-255-5043

National Accounts

OSRAM SYLVANIA

National Customer Support Center

Phone: 1-800-562-4671 Fax: 1-800-562-4674

OEM & Special Markets Phone: 1-800-762-7191

Fax: 1-800-762-7192 Photo-Optic

Phone: 1-888-677-2627 Fax: 1-800-762-7192

OSRAM SYLVANIA Ballast Division 800 N. Church Street Lake Zurich, IL 60047

Phone: 1-800-654-0089 Fax: 1-847-726-6424

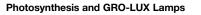
In Canada OSRAM SYLVANIA LTD. Headquarters 2001 Drew Road Mississauga, ON L5S 1S4

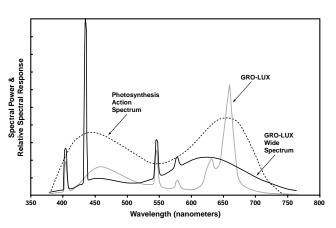
Industrial & Commercial

Phone: 1-800-263-2852 Fax: 1-800-667-6772

Special Markets

Phone: 1-800-265-2852 Fax: 1-800-667-6772





Action Spectrum for Chlorophyll Synthesis

