

True Sun LLC

Full Spectrum Light Online Catalog

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The Pure Light From Scandinavia, To See and Feel Better...

- Provides True Color as in Natural Sunlight
- Reduces Eye Fatigue
- Increases Visual Acuity and Comfort
- Creates a Colorful, People-Pleasing Environment
- Long Life Averaging 5000 hours



The **Chromalux** bulb has its origin in Finland, Land of the Midnight Sun, where life must be sustained in almost total darkness for a few months of the year. Extensive research and testing in Finland, resulted in the design of this unique light source, which closely simulates natural daylight.

The Neodymium earth element is able to absorb yellow and other dulling components of the spectrum, resulting in crisp and more vibrant colors. Chromalux provides bright light that closely mimics the spectrum of Natural Sunlight (infrared, visible spectrum and beneficial U.V.A. rays).

Manufactured in Europe to the highest standard, Chromalux is long life (5,000 hours average), has a heavy-duty filament construction, and outlasts competitors three to four times. Chromalux is the original full spectrum lamp for healthier and happier individuals.



Mimics Natural Light Lasts up to Seven Years! Ecolume™ Full Spectrum Compact Fluorescent Lamp is our newest addition to our product line. It is available in a 23 Watt version. The Ecolume™ Full Spectrum Compact Fluorescent Lamp is a very efficient and ecological light source that produces approximately 5-times more light and lasts up to 13-times longer than conventional incandescent light bulbs! As we know, energy is produced by burning fossil fuels that have extremely polluting effects on our environment and the ocean floor.



- Low energy consumption
- Triple integral : (CRI = 96, 5000 Kelvin)
- Spiral designs: (CRI = 96, 5000 Kelvin)
- Long average life (10,000 hours)

Ordering Code	Description	Wattage	Color Temp.	Lumens
Eco/23w/50	Compact Fluorescent Triple Full Spectrum	23	5000°K	1500
Eco/SP/20w/50	Compact Fluorescent Spiral Full Spectrum	20	5000°K	1300

PHILIPS TL 950 - T8 Full Spectrum Fluorescent Lamps

The Philips TL 950 Full Spectrum fluorescent lights offer unmatched Coloring Rendering in T8 Fluorescent Technology!!! The Philips TL950 series is a very high CRI lamp which is available in 24, 36 and 48 inch sizes. Its low color temperature combined with a high CRI translate to a longer acceptable life.

Full Spectrum Fluorescent Lamps, particular the Philips TL 950s Are Ideal for... High- End Retail Shops, Hotel Ballrooms and Restrooms, Museums and Art Galleries, Graphic Arts, Photography Studios, Avicultural Lamps



The Philips F32T8 TL950 Full Spectrum Fluorescent Bulbs and Lamps Feature:

- Perfect for Color Critical Applications
- Provides distortion-free fluorescent lighting
- 5000 Kelvin at 98 CRI

The Excellent CRI in the Philips TL950 full spectrum lamp is critical in settings where it is important that people appear natural, in retail applications where merchandise must look appealing and in restaurant applications where food must

look appetizing. In office and factory applications, high color rendering can increase visual clarity and create a more pleasing and productive work environment.

Description	Nominal Watts	Bulb	Base	Std. Pkg. Qty.	Color Temp.	Color Rendering Index	Approx. Initial Lumens	Design Lumens ¹	Nominal Length	Rated Average Life (Hours) ²
F25T8/TL950	25	T8	Bi-Pin	25	5000 K	98	1550	1450	36	20,000
F32T8/TL950	32	T8	Bi-Pin	25	5000 K	98	2000	1860	48	20,000

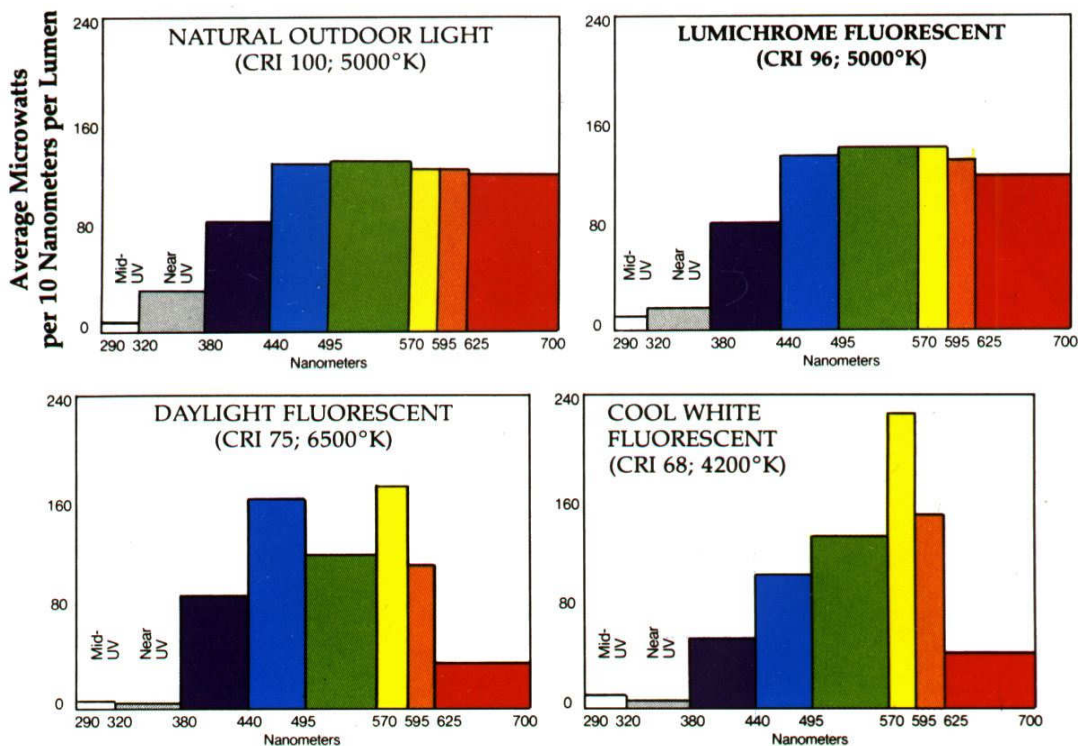
LUMICHROME 1XC Full Spectrum Fluorescent Lamps - 5000° K - 96 C.R.I., Full Spectrum Fluorescent Lamp

LUMICHROME® 1XC, European made fluorescent lamp, has been the very first Full Spectrum Lamp available on the world's market, and has been improved through the years, (thanks to its unique and **patented** blend of phosphors) to achieve one of the highest color rendering index available on the market today: 96 C.R.I. With a color temperature of 5000° Kelvin, the light of **LUMICHROME® 1XC** can be compared to outdoor lighting at noon time, the time of day where the blue and red parts of the spectrum are present at equal amounts.

LUMICHROME® 1XC Full Spectrum Lamps reduce eye fatigue, improving readability and visual comfort. By providing a pure white light, closely mimicking **Natural Light**, they have shown to enhance living and working environments in a way unmatched before, and promote positive effects on people's sense of well being.

LUMICHROME® 1XC 5000° K and CRI of 96

With a color temperature of 5000°K and a color rendering index of 96, the light of the Lumichrome® 1XC full spectrum fluorescent lamp can be compared to outdoor lighting at noon time, the time of day where blue and red parts of the spectrum would be, more or less, present in equal amounts. The applications for this full spectrum fluorescent lamp are general and environmental lighting of all types, including shops, jewelry stores, printing, graphics arts industry, art studios, fabric showrooms, etc.



SPECTRAL DISTRIBUTION CURVES:

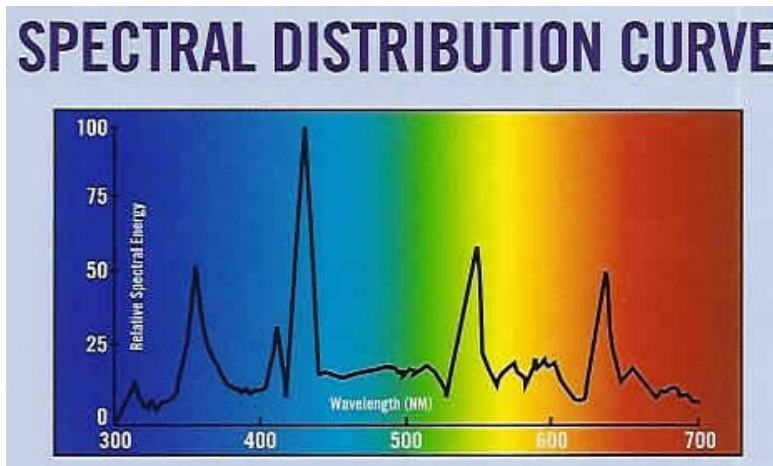
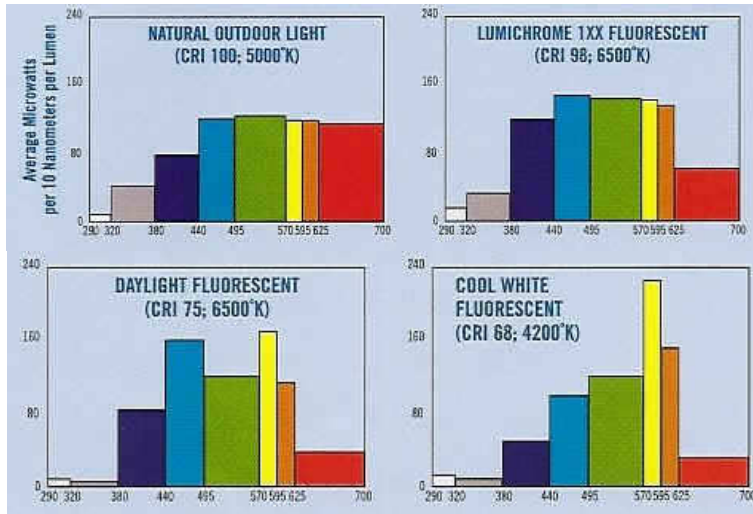
LUMICHROME 1XC 5000° K SPECIFICATIONS: C.R.I.: 96

Ordering Code	Watts	Description	Base	Life	Approx. Lumens	Per Pack
F40 1XC	40	T12 48"	Bi-Pin	24,000	2850	25
F32 1XC	32	T8 48"	Bi-Pin	24,000	2825	25

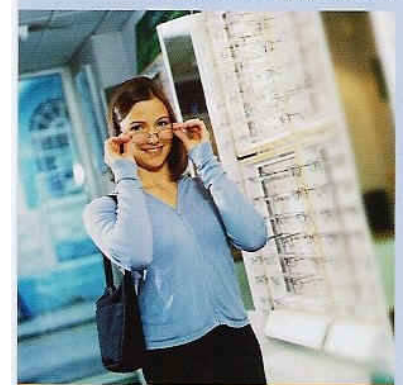
LUMICHROME® 1XX Full Spectrum Fluorescent Lamp - 6500° K - 98 C.R.I., Fluorescent Full Spectrum Lamp

Energy Efficiency Full Spectrum Lighting Combined with Brilliant Natural Colors Improve your health and well being with a Lumichrome 1xx full spectrum lamp. Extensive research has shown that lack of natural daylight can impair our mood, health and well being in a very dramatic way.

Unfortunately, ordinary cool white fluorescent lamps, that most of us use, have an unbalanced spectral distribution, and throw a depressing greenish yellowish hue upon a room, distorting colors, stressing our eyes, and creating a very unpleasant atmosphere. Full spectrum lighting is a positive way to impact our daily lives and improve our atmosphere.



recommended applications



health, medical, dental, pet industry, veterinary



SPECIFICATION:

- Superior color rendition: (highest available today!) (98 C.R.I.). With a color temperature of 6500° K, **LUMICHROME® 1XX** full spectrum lamp closely matches outdoor lighting in the morning hours, and has a *bright white* appearance.
- Energy efficiency: Only 32 and 18w instead of the standard 40 and 20w, with enhanced Lumen output, (about 20% more than Standard Fluorescents).

LUMICHROME® 1XX - full spectrum light should be specified whenever superior color rendition combined with high efficiency are needed. Recommended for the illumination of spas, health and fitness centers, dental labs, photo labs, printing shops, etc

LUMICHROME® 1XX full spectrum light has also been shown to promote positive effects on people's sense of well-being; and due to the higher output in the near U.V. range, (300 nanometers: see spectral curves), Lumichrome is also highly recommended for the pet industry, the illumination of reptile cages and fish aquariums.

LUMICHROME® 1XX 6500° K - C.R.I.: 98 SPECIFICATIONS

Ordering Code	Watts	Description	Base	Life	Approx. Lumens	Per Pack
F40 1XX	40	T12 48"	Bi-Pin	24,000	3375	25

F32 1XX	32	T8 48"	Bi-Pin	24,000	3050	25
F18 1XX	18	T8 24 "	Bi-Pin	24,000	1350	25

True Lite - Full Spectrum Fluorescent Lamps

Create a customer friendly environment while showcasing your products in the vibrancy of natural sunlight.

- Perfectly balanced Full Spectrum Lighting
- Natural outdoor light 24-hours a day
- Adds **sparkle and brightness** to diamonds, crystals, silver, and more
- Eliminates color distortions and provides a perfect atmosphere for color matching and coordinating
- Glare elimination and reduced eye strain
- Produces higher morale and less absenteeism
- Found to be effective in treating winter depression
- Great for individuals who work shifts or would you like to live and work in a healthier, more pleasing environment.
- Light from Full-Spectrum light bulbs resemble Natural Sunlight and creates the full color spectrum of True Daylight.

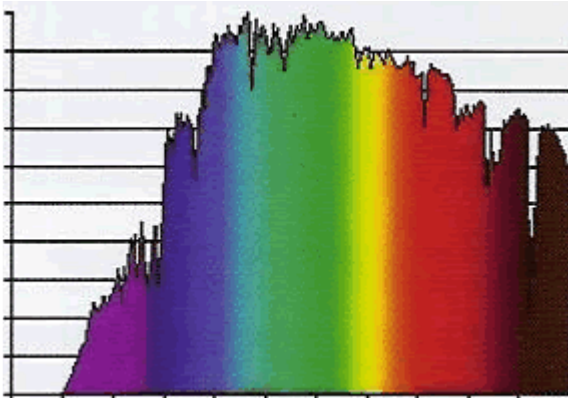
Turn the MUNDANE Into SPECTACULAR (Standard Cool White) (Premium True Lite)



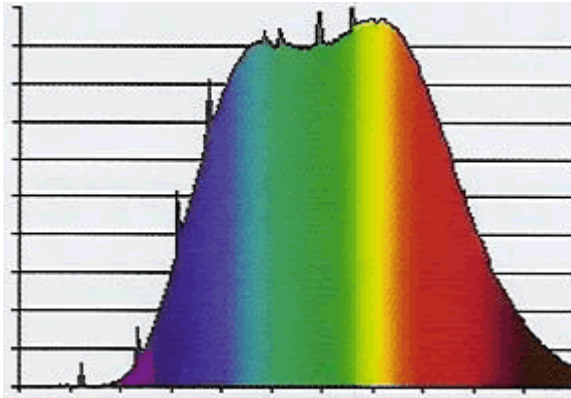
Merchandise displayed under incandescent and standard commercial fluorescent lamps appears dull, with a greenish tint.

The sparkle and natural illumination of True Lite fluorescent lamps displays merchandise in its best light, creating an optimum buying atmosphere for customers.

Natural Outdoor Sunlight
(CRI = 100; Kelvin = 5500)



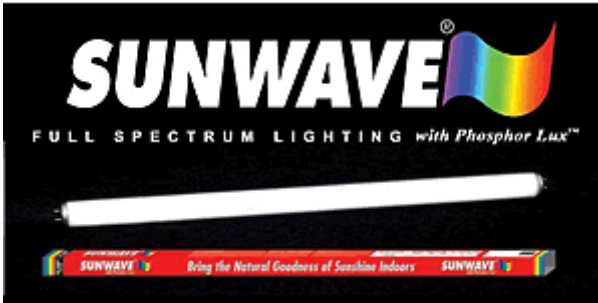
True Lite Full Spectrum Fluorescent
(CRI = 92; Kelvin = 5720)



This lamp is a must for business owners who wish to enhance the work environment or also where color judgments are made. Commercial uses include **SCHOOLS, OFFICES, PRINTERS, ART STUDIOS, WAREHOUSES**, wallpaper and paint stores, clothing, rug, furniture, textile and dye manufactures.

Minimum QTY: 30 (Case Quantities Only- 30 lamps per case)

Description	Watt	Length	Lumens
True Lite F40T12	40	48"	2200
True Lite F32T8	32	48"	1960



The Sunwave® Full Spectrum Fluorescent Bulb is the most correct Full Spectrum Light Bulb available in the world. The Full Spectrum Light output closely matches natural daylight. Studies show that Full Spectrum Natural Daylight can improve students reading and math scores.

WHY FULL SPECTRUM LIGHT BULBS?

Full spectrum sunlight nourishes every living organism on Earth and has helped our planet evolve. Today, people are spending more time indoors and not getting enough sunlight from

outside. To achieve natural balanced sunlight indoors, light bulbs need to contain a full spectrum of color as well as infrared and ultra violet wavelengths. These requirements are absent from regular cool white fluorescent light bulbs. All products from the Sunwave® line contain these essential ingredients to help you receive balanced sunlight. Along with healthy living, modern research has shown that correct natural light can significantly increase students' test scores, productivity among workers and increase sales in retail stores.

COMPARE AND SEE THE DIFFERENCE

We invite you to compare the difference of natural outdoor light, Sunwave® fluorescent light and ordinary fluorescent light. By reviewing these spectral distribution charts you can see how close Sunwave® "brings the natural goodness of sunshine indoors."™

THE SUNWAVE® DIFFERENCE

– Phosphor Lux™

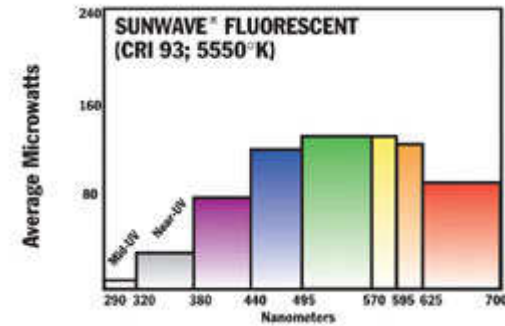
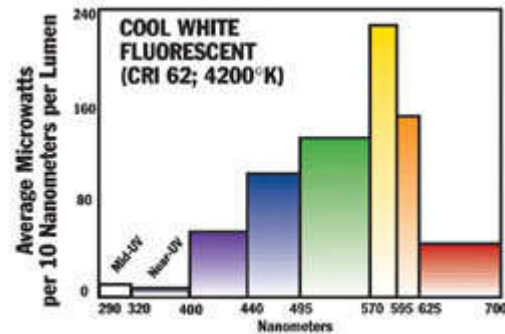
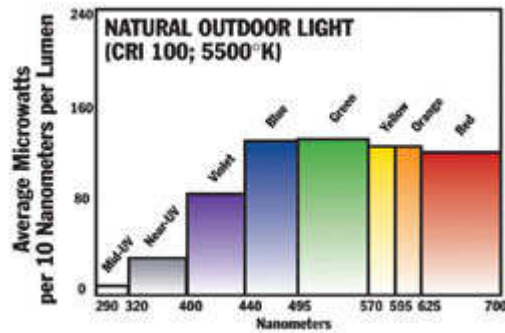
The Phosphor Lux™ blend was designed and developed by a team of lighting experts and led by one of the inventors of full spectrum lighting. Years of research, development and testing went into creating this blend of natural sunlight in a light bulb through proper color rendering, full spectrum color temperature and chromaticity. We are proud to take our Phosphor Lux™ technology and combine it into our Sunwave® full spectrum light bulbs.

LIGHT IN-DEPTH

Correct full spectrum light, clean air and pure water are all important elements required to live an active and healthy life. Sunwave® full spectrum light bulbs are specifically designed to simulate the balanced spectrum of natural light. This enables Sunwave® customers to create a healthier environment and achieve greater clarity and natural color.

THE SUNWAVE® FULL SPECTRUM BULB

The Sunwave® full spectrum light bulb is one of the most accurate natural full spectrum light bulbs on the market today. With a color temperature of 5550 Kelvin degrees and Color Rendition Index (C.R.I.) of 93, this bulb can be compared to mid-day sun, the time of day when the sun has its highest photobiotic activity. By using these bulbs in your home or office, colors will be seen more clearly and vibrantly, which increases visual acuity. Sunwave® bulbs can help you feel less fatigue and have better concentration.



SUNWAVE® USES	SUNWAVE® CUSTOMERS
Sunwave® full spectrum bulbs can be used: <ul style="list-style-type: none"> • At home • In computer rooms • At the office • In color matching • In health clubs • In graphics and printing • In production plants • In photography studios 	Sunwave® full spectrum bulbs are used by: <ul style="list-style-type: none"> • Artists • Bird and Pet Owners • Doctors • Greenhouses • Museums • Health Enthusiasts • Schools and Universities • Retail Stores

FEATURES INCLUDE:

- 48" lengths **ONLY** (Case Quantity of 25 Only)
- 5550 Kelvin temperature
- 93 C.R.I. (color rendition index)
- Works with Magnetic or New Electronic Ballast
- Simulates natural daylight for greater natural color and clarity
- Duplicates Vivid Absolute Color
- 90% Lifetime Lumen Output

Pricing:

Product	Case QTY	1-3 Cases (\$/bulb)	4-9 Cases (\$/bulb)	10 + Cases (\$/bulb)
Lumichrome 1XC Full Spectrum Fluorescent	25	\$12.95	\$11.50	\$9.95
Lumichrome 1XC Full Spectrum Fluorescent	25	\$12.95	\$11.50	\$9.95
Philips TL950 Full Spectrum Fluorescent	25	\$7.25	\$6.25	\$5.50
True Sun Full Spectrum Fluorescent (T12 Only)	30	\$5.95	\$5.50	\$5.25
Sunwave Full Spectrum Fluorescent (T8 Only)	25	\$11.95	\$10.95	\$10.35
Ecolume Full Spectrum Comp. Fluorescent Eco/23w/50	20	\$19.95	\$18.95	\$17.95
Eco/SP/20w/50	20	\$19.95	\$18.95	\$17.95
Chromalux Full Spectrum Incandescent				
A19 FR60W Frosted	20	\$6.50	\$6.25	\$6.00
A19CL60 Clear	20	\$6.50	\$6.25	\$6.00
A21FR75 Frosted	20	\$7.50	\$7.25	\$7.00
A21CL75 Clear	20	\$7.50	\$7.25	\$7.00
A21FR100 Frosted	20	\$7.50	\$7.25	\$7.00
A21CL100 Clear	20	\$7.50	\$7.25	\$7.00
A21FR150 Frosted	20	\$7.95	\$7.50	\$7.25
A21CL150 Clear	20	\$7.95	\$7.50	\$7.25
R20FL60 Frosted	25	\$16.00	\$14.00	\$12.00
R20CL60 Spot	25	\$16.00	\$14.00	\$12.00
R30FR75 Frosted	20	\$16.00	\$14.00	\$12.00
R30FR100 Frosted	20	\$16.00	\$14.00	\$12.00
R30CL100 Clear	20	\$16.00	\$14.00	\$12.00
R40FR150 Frosted	20	\$17.00	\$15.00	\$13.00
R40CL150 Clear	20	\$17.00	\$15.00	\$13.00