

*lightinnovations@work*TM



NEPTŪN[®]
L I G H T

Andrew Bobel

- Founder, CEO and Chief Engineer of Neptun Light has nearly 25 years experience in energy saving lighting and is the holder of more than 40 patents worldwide. Mr. Bobel held the position of Senior Engineer at Motorola Lighting and sold his first patent to Motorola. While at Motorola Mr. Bobel received the "Motorola CEO Quality Award" for his work on electronic ballast designs and development of so called "Six Sigma Design Process"

Prior to founding Neptun, Mr. Bobel has been involved in technology licensing to many of the world's largest lamp and ballast manufacturers.

Many of his patents and technologies are key inventions in lighting, and have been integral in the growth of the Energy Efficient Lighting Industry.

All of Mr. Bobel's past, current and pending patents are available to Neptun Light as we continue to move forward as the premier manufacturer of energy efficient lighting.

In today's world of ever-increasing energy costs and lighting maintenance cost, our proprietary technology will ensure that Neptun Light maintain its advantage over the competition.

The background of the slide is a dense, repeating pattern of green leaves, likely maple leaves, in various shades of light and medium green. The leaves are slightly out of focus, creating a soft, natural texture.

NEPTUN DIMMABLE CFL

Advantages



NEPTUN

L I G H T[®]

Revolution!

COMPACT FLUORESCENT

D I M M A B L E

DESIGNED AND APPROVED FOR TOTALLY ENCLOSED FIXTURES



HELIX	HELIX	HELIX	A-19	A-21	R-30	R-40	PAR-30	PAR-38
14W	18W	24W	14W & 16W	20W	14W & 16W	14W & 16W & 19W	14W & 16W & 19W	20W & 23W

INCANDESCENT OR HALOGEN EQUIVALENT:

60W	75W	100W	40W & 60W	75W	50W & 65W	50W & 65W & 75W	45W & 65W & 75W	75W & 90W
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ALL IN STOCK!

WITH ANY QUESTIONS OR FOR PRODUCTS SPECS AND DETAILS CONTACT US AT service@neptunlight.com or
TEL. 1-888-735-8330 | FAX. 1-847-735-8004 | WWW.NEPTUNLIGHT.COM

These innovative products are PATENTED and protected by one or more of the following US patents: D468,456; D469,890; D470,607; D470,608; D470,610; D471,294; D471,295; 5,371,438; 5,434,48; 5,448,137; 5,801,492; 5,982,106; 7,053,540
German Patents: 40208045.9 Other Patents Pending

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COMPACT FLUORESCENT

GU-24 DIMMABLE & STD

DESIGNED AND APPROVED FOR TOTALLY ENCLOSED FIXTURES



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14W	18W	24W	14W & 16W	20W	14W&16W	14W & 16W	14W & 16W & 19W	14W & 19W	20W & 23W
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Truly Dimmable CFL's for Phase-Cut Dimmers

- **Neptun Light is the first CFL Manufacturer to produce a complete line of Fully Dimmable CFL's.**
- **Our dimming technology allows our CFL's to be used with any standard incandescent dimmer down to 10%.**
- **Neptun Analog Dimming™ experience a less than 1% failure rate and we actually see their life span maintained when operated at a dimmed level for extended time.**

Enclosed Fixture Certification

- * Neptun Analog Dimming™ Technology without use of heat sensitive IC's - is a robust choice for CFL's, especially dimmable type.**
- * Neptun Tests all its CFL's at 75 C for at various dimming levels before market qualification.**
- * Neptun designs its own and carefully selects amalgam types to ensure light source thermal stability at elevated temperatures in any fixture.**

Electronic Preheat

- **Electronic Preheat Circuitry protects our lamps filaments from damage caused by rapid cycling ON/OFF, as will be with use of motion sensors.**
- **The proprietary circuit design ensures this feature at every start and rapid restart.**
- **Neptun Dimmable CFL's are tested and approved for use with ALL types of motion detectors, either relay based or triac based.**

Amalgam vs. Liquid Mercury

- **All Neptun CFL's use Amalgam rather than liquid mercury. The use of Amalgam allows all of our CFL's to be used in totally enclosed fixtures with less than 5% loss of lumen output or a shift in color temperature.**
- **CFL's light source without amalgam will get too hot inside an enclosed fixture, the color temperature becomes much higher and the lamp will either drastically lose lumen output or will simply fail due to the ballast thermal runaway.**
- **Amalgam makes the professional recycling easier.**

Hot Restrike Protection

- **Hot Re-strike Circuitry** protects our lamps from damage caused by Hot Re-Strikes. When a CFL has been burning long enough to become fully hot (especially covered type CFL) and is turned OFF and then turned right back ON, this is called a hot re-strike. It requires significantly more lamp start voltage to get the lamp to light up. This mode places very undesirable stress on transistors and capacitors of the ballasts creating pre-mature failures of covered type CFL's.
- Neptun CFL's incorporate a circuit that limits the amount power used to re-strike the lamp thus protecting the internal electrical components and extending the life of the lamp.

End-of-Life Protection

- **End-of-Life Protection Circuitry safely turns the lamps OFF at the end of their life span. As a CFL ages it requires more energy to both turn ON and maintain a consistent light output.**
- **At End-of-Life, CFL's without this feature can use so much power that enough heat is generated to melt the plastics and create a fire hazard. Neptun's End-of-Life Protection Circuit automatically causes the lamp to fail just prior to reaching excessive heat levels.**

Dimming Performance

- **Neptun Proprietary Analog Dimming Circuit provides fro:**
- **LINEAR RELATION** between Dimmer movement and **LIGHT OUTPUT.**
- **RESTART AT ANY DIMMING LEVEL** without resetting the dimmer to a higher level