

# LifeLite<sup>®</sup> SunnyAir



## Full-spectrum daylight lamp with ioniser

Imagine the cheerful feeling of wellbeing  
in sunny environments  
having a higher concentration of negative ions

*SunnyAir*  
**LifeLite<sup>®</sup>**  
Full Spectrum Daylight Lamp  
With Negative Ion Generator

**LifeEnergy<sup>®</sup>**  
Source of Healthy Lighting  
Germany - Canada  
since 1992



**For example by the sea**



**... near the waterfalls**

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## ... in woodland and mountains

### What are negative ions?

Negative ions, also known as anions, are particles with a negative electrical charge. In nature, negative ions are produced by storms, waterfalls, by the sea, vegetation (woodland), in mountain areas, following a shower of rain etc. Among other things, they purify the Earth's atmosphere.

The feeling of wellbeing that we get when we are near to a waterfall or surf can partly be explained by the large number of negative ions in these environments. The quality of air we breathe is highly influenced by the number of ions it contains:

Great waterfalls	>100.000/cm <sup>3</sup>
Woodland / mountains	>70.000/cm <sup>3</sup>
By the sea	>5.000/cm <sup>3</sup>
Land / vegetation	1.000 – 2.000/cm <sup>3</sup>
Large towns	about 200/cm <sup>3</sup>
Closed rooms	about 100/cm <sup>3</sup>
Air conditioned rooms	0 – 25/cm <sup>3</sup>
Minimum necessary for a Healthy environment:	1.000 – 2.000/cm <sup>3</sup>

The higher the number of anions, the cleaner, fresher and healthier the air.



# Beneficial to people, animals and plants

The concept of combining the well-tried and proven LifeLite® Sunny full-spectrum lamps with the revolutionary anion technology opens up the possibility of achieving a higher quality of life and wellbeing in every room in which we live or work.

**And all this with a saving of 75% of the energy required by the traditional incandescent light bulbs.**

Almost all pollutants such as dust particles, tobacco smoke, odour particles, pollen, bacteria, germs and other spores (mould) etc carry a positive charge. They are neutralised by the negative ions and thereby rendered harmless. Another advantageous effect is the reduction in static electricity.

In LifeLite® lamps the negative ions are produced by a special carbon brush that is integrated into the lamp socket and uses the latest technology, based on the corona discharge principle. An electrical charge stimulates the tips of the precisely insulated fibres of the carbon brush to produce negative ions.

LifeLite® SunnyAir lamps are ideal for rooms where the air is polluted by dust particles, odour, tobacco smoke, pollen, etc.

If necessary, the carbon brush and the lamp may be cleaned with a soft dry brush.

Please note: switch off the power supply before cleaning!

## Power output of LifeLite® SunnyAir ioniser lamps

LifeLite® SunnyAir lamps produce >6,000,000 negative ions per cm<sup>3</sup>, measured at a distance of 10 cm.

Ozone concentration: <0.01 ppm

LifeLite	Lumen	Length	∅
23W = (90W incandescent lamp)	1170	152 mm	60 mm

Fitting: E26 screw fitting



## How many LifeLite SunnyAir ioniser lamps are needed in a room?

Under normal conditions, one ioniser is sufficient for about 10 m<sup>2</sup> in living areas and offices. Where there is a higher level of microbial dust pollution, e.g. from tobacco smoke, a correspondingly greater number of ionisers is required, up to 4 per 10 m<sup>2</sup>.

Even in larger rooms it is also sensible to use single LifeLite SunnyAir ioniser lamps, e.g. for desk lighting, as it is possible to achieve an improvement in the air we breathe as well as full-spectrum daylight quality lighting in the areas where we work.

## Studies on the effectiveness of negative ions in room air

A study by the University of Surrey in Guildford, England, in 1978 showed that the subjects were able to concentrate for longer and perform at significantly higher levels (with improvements of up to 45 %) as a result of the influence of negative ions in the room air.

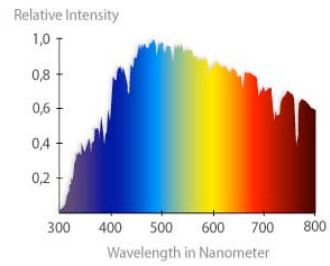
A long-term study at the same university in 1982 showed a significant reduction (75 %) in headaches and illness among employees working in a typical office building, as a result of negative ionisation of the room air. In this case the concentration of negative ions was only 2,000 per cm<sup>3</sup>.

**The spectrum, colour temperature and colour rendering of LifeLite lamps are based on those of sunlight.  
(See the spectral analyses chart on the following page)**

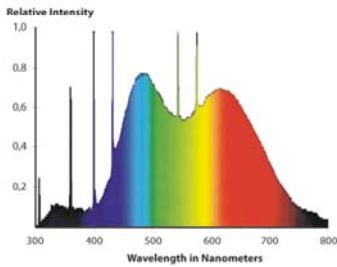
**Enjoy the refreshing brightness of LifeLite® full-spectrum daylight in clean air every day**



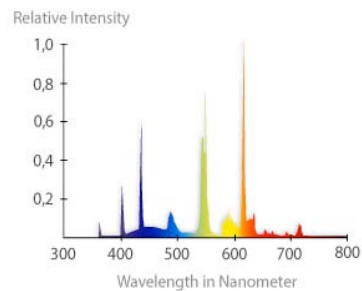
# Spectral analysis



sunlight over Germany – July 2005  
5850° Kelvin – CRI 99



Spectrum of  
**LifeLite®** full spectrum daylight lamp  
color temperature 5800 Kelvin  
color rendering index (CRI) 96



ordinary energy saving lamps  
4200° Kelvin – CRI 83

For further details and to watch the LifeLite video, you are welcome to visit our website: [www.lifelite.ca](http://www.lifelite.ca)

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