WHAT IS CLAIMED IS:

1. A lighting arrangement for general lighting, comprising:

a light source adapted to emit visible light suitable for general lighting, wherein the light source is adapted to emit visible light having a color point in a CIE XYZ color space, wherein the color point has a distance less than 10 Standard Deviation Color Matching to a black body line in said color space;

a radiation source adapted to emit radiation in a predetermined spectrum, wherein the predetermined spectrum is in the range 760-1400nm; and

a driver circuit adapted to provide a first driving current that is pulsed;

wherein the lighting arrangement is adapted to provide the first driving current to the radiation source but not the light source; and

wherein, in use, the light source is capable of emitting at least 250 lumens, preferably at least 1000 lumens, more preferably at least 2000 lumens.

2. The lighting arrangement of claim 1, wherein the lighting arrangement is adapted to provide a second driving current different from the first driving current to the light source, wherein the second driving current is a direct current, or an alternating current, or a pulse-width modulated current having a pulse frequency in the range 20,000 Hz – 300,000 Hz.

3. The lighting arrangement of claim 2, wherein the driver circuit is a first driver circuit, and wherein the lighting arrangement further comprises a second driver circuit adapted to provide the second driving current.

4. The lighting arrangement of any one of the preceding claims, wherein the pulse duration of the pulses of the first driving current is in the range 0.05-500ms, preferably 1-100ms and more preferably 1-20ms.

5. The lighting arrangement of any one of the preceding claims, wherein the pulse frequency of the first driving current is in the range 0.01-10000 Hz, preferably about 0.1-2500 Hz, more preferably about 1-160 Hz.

6. The lighting arrangement of any one of the preceding claims, wherein the first driving current has a duty cycle of not greater than 20%, preferably not greater than 10%, more preferably not greater than 5%.

7. The lighting arrangement of any one of the preceding claims, wherein the radiation source is adapted to operate at an enhanced permissible driving current; or wherein at least one of the pulse duration, the pulse frequency and the duty cycle are so selected as to enable the first driving current to drive the radiation source at an enhanced permissible driving current.

8. The lighting arrangement of any of the preceding claims, wherein the predetermined spectrum does not include a visible spectrum.

9. The lighting arrangement of any one of the preceding claims, wherein the predetermined spectrum is in the range 800-1100nm, preferably in the range 800-870nm; or wherein the predetermined spectrum is in the range 800-1100nm with a peak emission around 830, 980 and/or 1060nm; or wherein the predetermined spectrum is in the range 800-870nm with a peak emission within the range 820-850nm.

10. The lighting arrangement of any one of the preceding claims, wherein a peak emission power of the radiation emitted by the radiation source energized by the pulsed first driving current is at least 25W, preferably at least 100W, more preferably at least 200W, yet more preferably at least 500W.

11. The lighting arrangement of any one of the preceding claims, wherein a peak emission power of the radiation source receiving the pulsed first driving current enable a power density of 0.4-50 mW/cm^2, preferably 5-15 mW/cm^2, measured at a common average distance of between 0.2 and 5 m from the radiation source, preferably at a common average distance of between 0.5 and 3 m from the radiation source, more preferably at a common average distance of about 2m; or wherein a peak emission power of the radiation source receiving the pulsed first driving current enable a power density of 0.4-50 mW/cm^2, preferably 5-15 mW/cm^2, measured at a distance where the illuminance of the lighting arrangement is about 500 Lux.

12. The lighting arrangement of any one of the preceding claims, wherein the radiation source receiving the pulsed first driving current is configured to deliver a dosage of 0.01-5 J/cm^2 measured at a common average distance from the radiation source, wherein the common average distance from the radiation source is preferably between 0.2 and 5 m, preferably at a common average distance of between 0.5 and 3 m from the radiation source, more preferably at a common average distance of about 2m; or wherein the radiation source receiving the pulsed first driving current is configured to deliver a dosage of 0.01-5 J/cm^2 measured at a distance where the illuminance of the lighting arrangement is about 500 Lux.

13. The lighting arrangement of any one of the preceding claims, wherein the radiation source in use consumes electrical power of less than 50 W RMS, preferably less than 25W RMS, more preferably less than 10W RMS; or wherein the radiation source in use consumes electrical power per square meter of an irradiated surface of less than 10 W RMS, optionally less than 2 W RMS, optionally less than 0.5 W RMS.

14. The lighting arrangement of any one of the preceding claims, wherein the radiation source comprises a solid-state device, preferably a LED, more preferably more than one LED; or wherein the light source comprises a solid-state device, preferably a LED, more preferably a flip-chip LED.

15. The lighting arrangement of any one of the preceding claims, wherein the lighting arrangement is adapted to generate visible light from the light source having a luminous flux which does not have an %-flicker of more than 40% when the light source is in use, preferably does not have an %-flicker of more than 20% when the light source is in use.

16. The lighting arrangement of any one of the preceding claims, wherein the correlated color temperature of the visible light from the light source is in the range 1700-6500K, preferably in the range 2400-5500K; or wherein the light source consumes an electric power of less than 120W, preferably less than 80W, more preferably less than 30W.

17. The lighting arrangement of any one of the preceding claims, wherein a ratio of an electrical power consumed by the radiation source to an electrical power consumed by the light source when the lighting arrangement is in use is not greater than 50%, preferably not greater than 25%, more preferably not greater than 10%, yet more preferably not greater than 5%.

18. The lighting arrangement of any one of the preceding claims, wherein the color point has a distance less than 8 Standard Deviation Color Matching, preferably less than 7 Standard Deviation Color Matching, more preferably less than 6 Standard Deviation Color Matching, yet more preferably less than 5 Standard Deviation Color Matching, to the black body line in said color space.

19. The lighting arrangement of any one of the preceding claims, wherein the driver circuit is adapted to modify the first driving current in response to an input to the driver circuit.

20. A lighting method comprising:

providing a light source adapted to emit visible light suitable for general lighting, wherein the light source is capable of emitting visible light having a color point in a CIE XYZ color space, wherein the color point has a distance less than 10 Standard Deviation Color Matching to a black body line in said color space;

providing a radiation source adapted to emit radiation in a predetermined spectrum, wherein the predetermined spectrum is in the range 760-1400nm;

supplying a first driving current that is pulsed to the radiation source to generate the radiation in the predetermined spectrum;

wherein the first driving current is not supplied to the light source; and

wherein, in use, the light source is capable of emitting at least 250 lumens, preferably at least 1000 lumens, more preferably at least 2000 lumens.

21. A lamp for general lighting comprising a lighting arrangement of any one of claims 1 to 19.

22. A retrofit light bulb for general lighting comprising a lighting arrangement of any one of claims 1 to 19.

23. A retrofit light tube for general lighting comprising a lighting arrangement of any one of claims 1 to 19.

24. A luminaire for general lighting comprising a lighting arrangement of any one of claims 1 to 19.