[DESCRIPTION]
[Title of Invention] LIGHTING FIXTURE AND LIGHTING SYSTEM

[Technical Field]
[0001]
The present invention relates to a lighting fixture and a lighting system.

[Background Art]
[0002]
Depending on a color of light emitted from a lighting fixture or the like, the temperature a person feels is known to change, or more specifically, a person feels warm or cool. For example, a person feels cool (has a cool feeling) when seeing cool color light and feels warm (has a warm feeling) when seeing warm color light.
[0003]
Using this, for example, Patent Literature (PTL) 1 discloses a lighting device that maintains or increases comfort of a person by controlling a light color of a light source according to the humidity and temperature.

[Citation List]
[Patent Literature]
[0004]
[PTL 1] Japanese Unexamined Patent Application Publication No. 2009-230907

[Summary of Invention]
[Technical Problem]
[0005]
However, a conventional lighting fixture like the lighting device disclosed in PTL 1 causes the color of the light to vary within a specified range of correlated color temperature. For this reason, the conventional lighting fixture may lack the effect of causing a warm or cool feeling, in particular a cool feeling.
[0006]
Embodiments of the present invention provide a lighting fixture and so forth that are capable of effectively causing a person to feel a warm or cool feeling.

[Solution to Problem]

[0007]

According to a first aspect of the present invention, there is provided a lighting fixture that is adjustable for an amount and a color of light emitted from the lighting fixture, the lighting fixture including: a first light source that emits first light of a fixed color that has chromaticity coordinates located in a quadrilateral area with four vertices at (x, y) = (0.380, 0.330), (x, y) = (0.510, 0.360), (x, y) = (0.470, 0.440), and (x, y) = (0.350, 0.420) in a CIE 1931 color space xy chromaticity diagram; a second light source that emits second light of a fixed color that has chromaticity coordinates located in a quadrilateral area with four vertices at (x, y) = (0.200, 0.175), (x, y) = (0.275, 0.270), (x, y) = (0.220, 0.360), and (x, y) = (0.155, 0.275) in the CIE 1931 color space xy chromaticity diagram; and a light source controller that obtains a light modulation signal used for adjusting the amount and the color of the light emitted from the lighting fixture, and adjusts an amount of light for each of the first light source and the second light source based on the light modulation signal.

[0008]

According to a second aspect of the present invention, there is provided a lighting system including: a first lighting fixture that is the above lighting fixture; and a signal generator that generates the light modulation signal, wherein the light source controller obtains the light modulation signal from the signal generator.

[0009]

According to a third aspect of the present invention, there is provided a lighting system including: a first lighting fixture that is adjustable for an amount and a color of light emitted from the first lighting fixture; and a signal generator, wherein the first lighting fixture includes: a first light source that emits first light of a fixed color that has chromaticity coordinates located in a quadrilateral area with four vertices at (x, y) = (0.405, 0.262), (x, y) = (0.634, 0.319), (x, y) = (0.460, 0.510), and (x, y) = (0.330, 0.482) in a CIE 1931 color space xy chromaticity diagram; a second light source that emits second light of a fixed color that has chromaticity coordinates located in a quadrilateral area with four vertices at (x, y) = (0.181,

0.032), (x, y) = (0.315, 0.200), (x, y) = (0.180, 0.430), and (x, y) = (0.069, 0.283) in the CIE 1931 color space xy chromaticity diagram; a third light source that emits third light of a fixed color included in a basic color name area circle of a white color defined by JIS Z 8110-1995; and a light source controller that obtains, from the signal generator, a light modulation signal used for adjusting the amount and the color of the light emitted from the first lighting fixture, and adjusts an amount of light for each of the first light source, the second light source, and the third light source, based on the light modulation signal, wherein the signal generator generates the light modulation signal that causes the first lighting fixture to emit light of a color having chromaticity coordinates located in a quadrilateral area with four vertices at (x, y) = (0.380, 0.330), (x, y) = (0.510, 0.360), (x, y) = (0.470, 0.440), and (x, y) = (0.350, 0.420) in the CIE 1931 color space xy chromaticity diagram or chromaticity coordinates located in a quadrilateral area with four vertices at (x, y) = (0.200, 0.175), (x, y) = (0.275, 0.270), (x, y) = (0.220, 0.360), and (x, y) = (0.155, 0.275) in the CIE 1931 color space xy chromaticity diagram.

[Advantageous Effects of Invention]

[0010]

A lighting fixture and so forth according to embodiments of the present invention are capable of effectively causing a person to feel a warm or cool feeling.

[Brief Description of Drawings]

[0011]

FIG. 1 is a diagram schematically illustrating a configuration of a lighting system according to an embodiment.

FIG. 2 is a block diagram illustrating a configuration of the lighting system according to the embodiment.

FIG. 3 is a CIE 1931 color space xy chromaticity diagram for describing colors of light emitted from a first light source, a second light source, and a third light source included in a first lighting fixture