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(54) **METHOD FOR ADJUSTING COLOR RENDERING INDEX OF LIGHT SOURCE AND STAGE LIGHT FIXTURE USING SAME**

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(57) **ABSTRACT**

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A method for adjusting color rendering index of a light source and a stage light fixture are provided. The light source has a first LED chip set with a first color rendering index and a second LED chip set with a second color rendering index. The range of chromaticity differences of a target spectrum and color differences of 14 Munsell color samples of the target spectrum are defined according to a target spectral power distribution of a reference light source under a target color rendering index and a target color temperature. The light intensity control parameter K_1 , K_2 of the first LED chip set and the second LED chip set are adjusted, and a relative spectral power distribution of synthesized lighting of the controlled light source is calculated to search for values of K_1 and K_2 enabling the relative spectral power distribution to fall within the range.

