Provide a clear and organized presentation. Show all of your work and completely simplify your answer. Evaluate the following integral:

$$
\int \frac{e^{\sqrt{x}}}{\sqrt{x} \cdot \sqrt{e^{2 \sqrt{x}}-1} \cdot \ln \left(e^{\sqrt{x}}+\sqrt{e^{2 \sqrt{x}}-1}\right)} d x
$$

