

Electronic Supplementary Information

**White Polymer Light-Emitting Diodes with Ultra-Large Color Shift
for Pulse-Width-Modulation Application**

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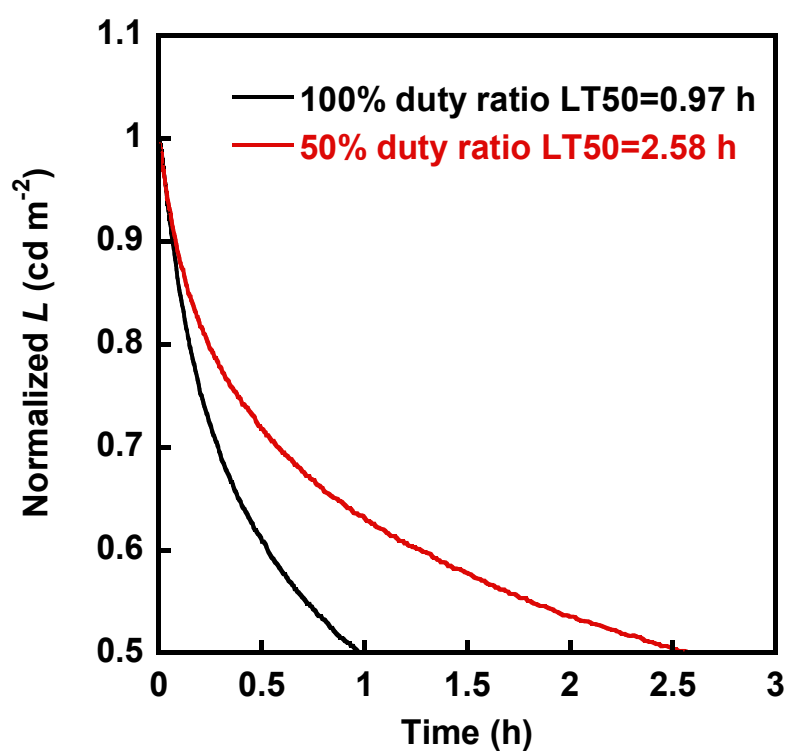


Figure S1. The lifetime of optimized WPLED at 6 V with 50% and 100% duty ratios. The initial luminance was corresponding to the Figure 4a. The actual operating time of former is $2.58 \text{ h} \times 50\% = 1.29 \text{ h} > 0.97 \text{ h} \times 100\%$.