Supporting Information

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Flexible, Broadband, Super-Reflective Infrared Reflector Film based on Cholesteric Liquid Crystal Polymer

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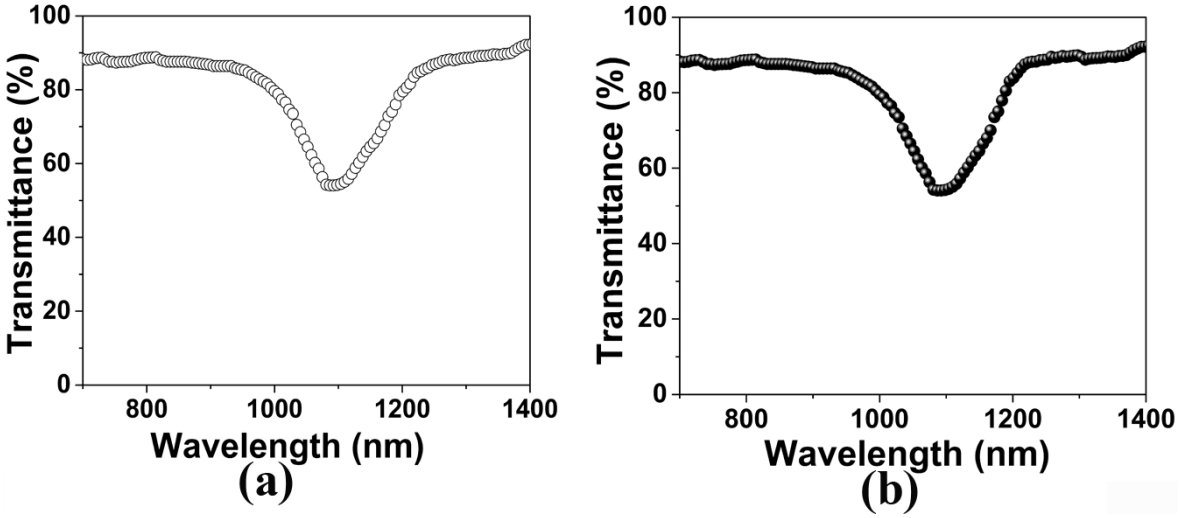

Figure.S1 Transmission spectra of polymer CLC films (a) left-handed and (b) right-handed CLC mixtures by excluding the UV light absorber.

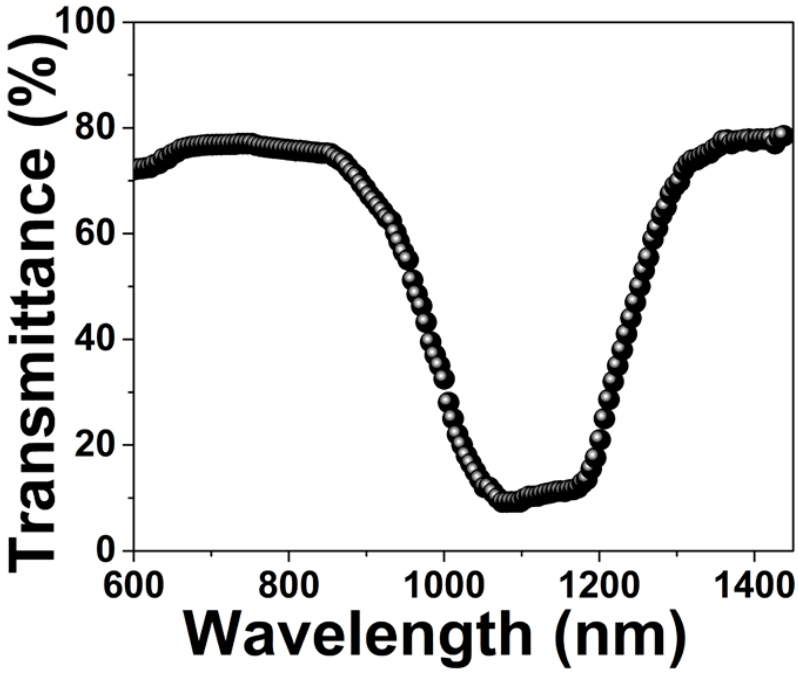

Figure.S2 Transmission spectra of fabricated polymer CLC film at 5 minute UV light irradiation.

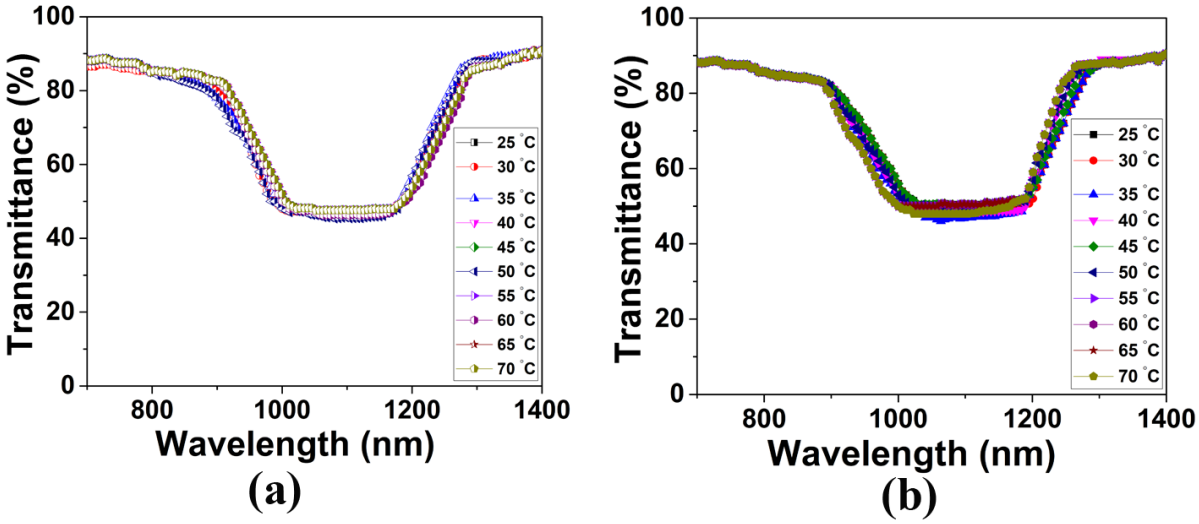

Figure.S3 Temperature-dependent transmission spectra of (a) right- and (b) left- handed CLC films upon varying the temperature from 25 ºC to 70 ºC.

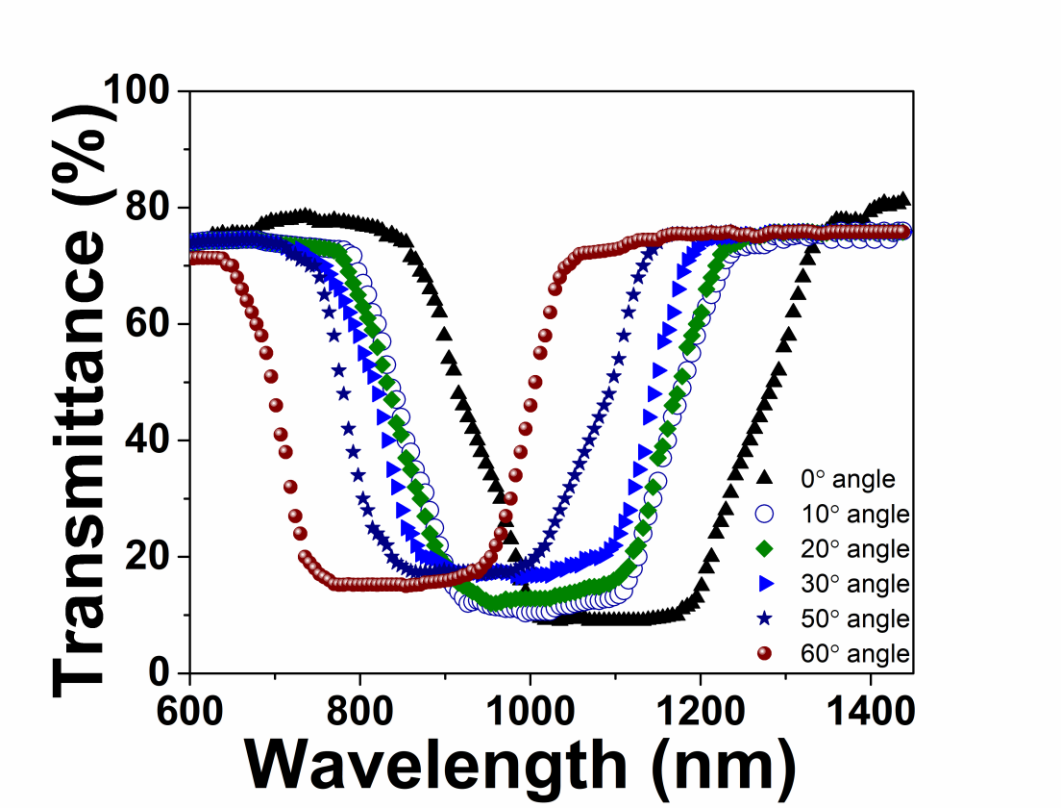

Figure. S4 Transmission spectra at a different viewing angle from 0º to 60º for the CLC film at room temperature 25 ºC.

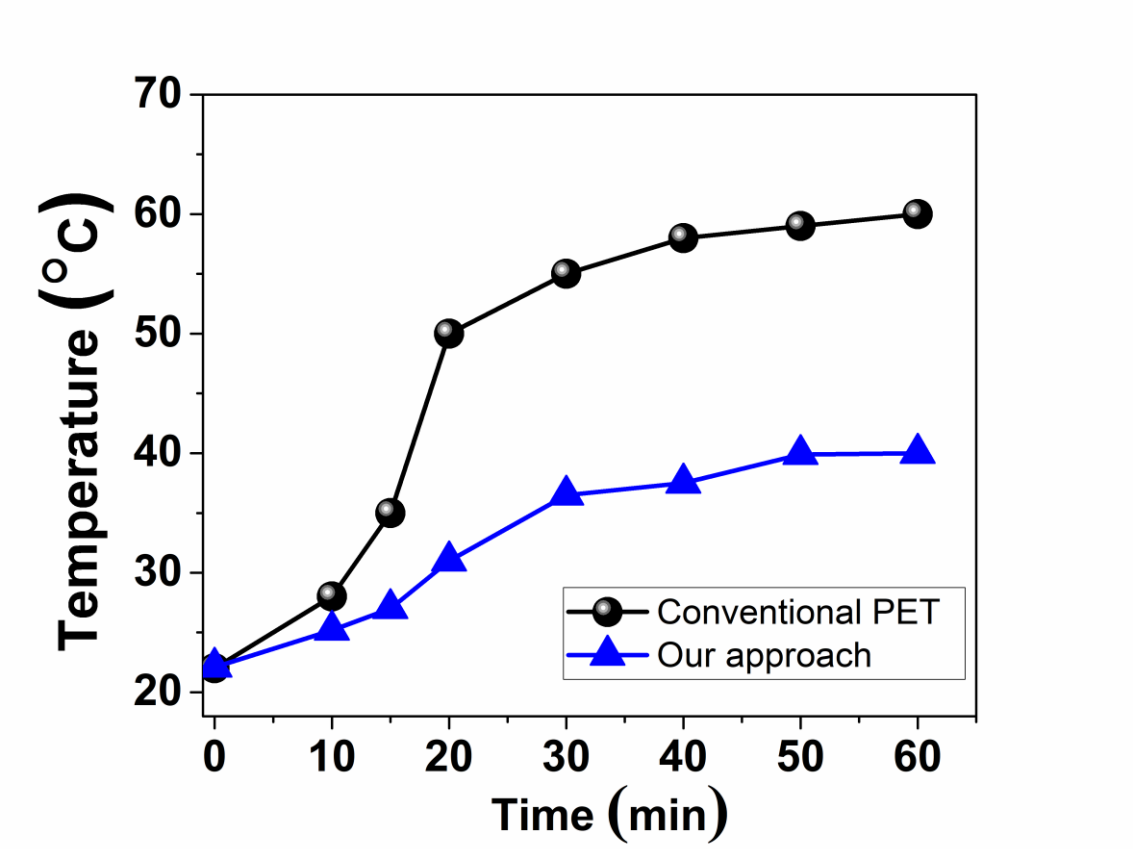

Figure. S5 Change in the indoor temperature for the sets of houses: conventional PET, and the proposed IR reflector.