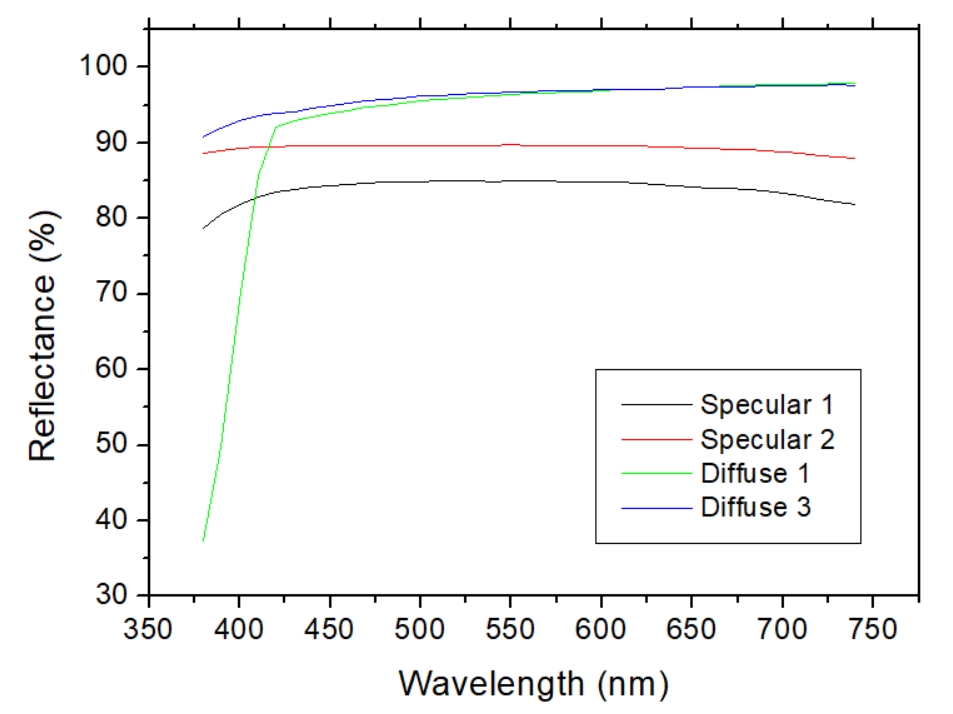
**Supplementary materials**

**The Effect of Reflective Property of a Reflection Film on the Performances of Backlight Units with Quantum-dot films for LCD Applications**

**Figure S1. Reflectance of four reflectors in the visible range (Specular 1: Windmöller & Hölscher, Specular 2: 3M, Diffuse 1: emboss-type, Diffuse 3: adhesive-type).**



# Figure S2. Angular dependence of luminance of QD-backlights with five kinds of reflectors: (a) Specular 1: Windmöller & Hölscher, (b) Specular 2: 3M, (c) Diffuse 1: emboss-type, (d) Diffuse 2: default film in the notebook, (e) Diffuse 3: adhesive-type.

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# Figure S3. Angular dependence of color coordinates of QD-backlights with five kinds of reflectors: (a) Specular 1: Windmöller & Hölscher, (b) Specular 2: 3M, (c) Diffuse 1: emboss-type, (d) Diffuse 2: default film in the notebook, (e) Diffuse 3: adhesive-type.

# 

# 

# (b)

# 

# (c)

# 

# (d)

# 

# (e)

# Figure S4. The intensity polar plot monitored on the backlight with QD films with (a) a specular and (b) a diffuse reflector obtained from optical simulation under the condition of the same reflectance of 95%.

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