

Table 1. Reflectance of Various Materials

Material	Reflectance
Aluminum, untreated surface	40–60%
Aluminum, sputtered on glass	75–85%
Stainless steel plate	25–30%
Chromium plating	39%
Aluminum paint	40–75%
Various white oil paints	3–10%
White baked enamel	5–10%
Magnesium oxide	75–88%
White plastering	40–60%
White note paper	25%
Typical duct liner	1%

Note: Reflectance values for a typical duct liner are taken from Schier and Fencel, 1996; values for all other listed materials are taken from Phillips, 1985.

The values in Table 1 show that reflectance for UVGI is not the same as for visible light. Aluminum is frequently mentioned as providing a desirable reflector surface. A reflectance value for a galvanized steel duct was not found in the literature, but experience with UVGI lamps in galvanized ducts indicates that galvanized steel has some reflectance for UVGI.