

Material	Relative Reflectivity	Minimum Excess Gain Required
Stainless steel, microfinish*	400%	0.2
Natural aluminum, unfinished*	140%	0.6
Stainless steel, brushed*	120%	0.8
Black anodized aluminum, unfinished*	115%	0.8
Natural aluminum, straightlined*	105%	0.9
Kodak white test card	90%	1.0
Opaque white plastic*	87%	1.0
White paper	80%	1.1
Dimension lumber (pine, dry, clean)	75%	1.2
Masking tape	75%	1.2
Beer foam	70%	1.3
Kraft paper, cardboard	70%	1.3
Translucent brown plastic bottle*	60%	1.5
Newspaper (with print)	55%	1.6
Black anodized aluminum, straightlined*	50%	1.8
Tissue paper (2 ply)	47%	1.9
Clear plastic bottle*	40%	2.3
Tissue paper (1 ply)	35%	2.6
Rough wood pallet (clean)	20%	4.5
Opaque black plastic (nylon)*	14%	6.4
Black neoprene	4%	22.5
Black foam carpet backing	2%	45
Black rubber tire wall	1.5%	60

Minimum Excess Gain Required	Operating Environment
1.5x	Clean air: no dirt buildup on lenses or reflectors.
5x	Slightly dirty: slight buildup of dust, dirt, oil, moisture, etc. on lenses or reflectors. Lenses are cleaned on a regular schedule.
10x	Moderately dirty: obvious contamination of lenses or reflectors (but not obscured). Lenses cleaned occasionally or when necessary.
50x	Very dirty: heavy contamination of lenses. Heavy fog, mist, dust, smoke, or oil film. Minimal cleaning of lenses.

* For shiny materials, the reflectivity figure represents the maximum light return, with the sensor beam exactly perpendicular to the surface.