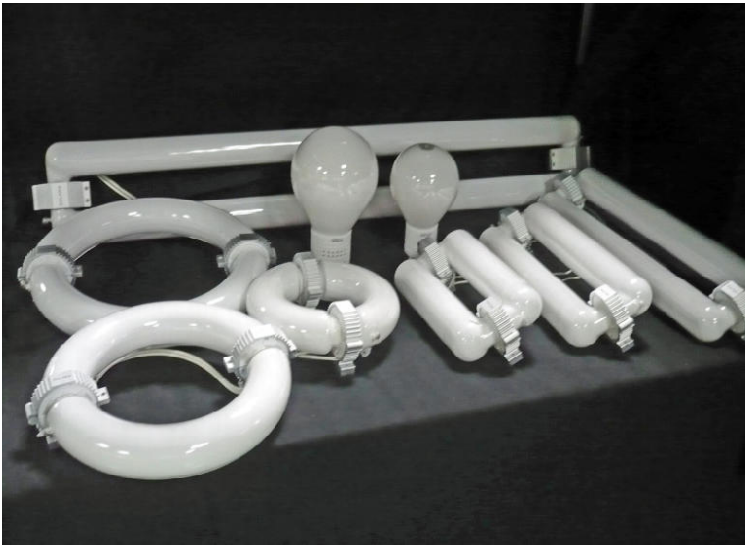


MHT Lighting's Photo catalyst Coating for Enhanced Efficiencies and ROI

The accumulation of dust and organic contaminants on glass and polycarbonate lens of a luminaires could easily reduce its transmittance to below 60% and the efficiency would decay significantly.

MHT's Photo catalyst coating can provide you the best efficiency because of its superior self-cleaning performance.



Superior Photo Catalyst

To create fine photo-catalytic lighting, MHT utilizes the best photo catalyst, ONID-TA, which is a patented visible light photo-catalytic TiO₂ sol manufactured by an environmentally friendly process and materials that has been acknowledged and certified to be highly efficient and effective.

The Unique Coating System

The accumulation of static charges easily happens on the surfaces of many non-conducting materials like glass, plastics, etc., and increases the attraction of the surfaces. Since the resistance of TiO₂ coating is about $10^6 \sim 10^9 \Omega$, the accumulation of static charges of a coated glass will be much less than original substrate. Furthermore, when the ONID-TA coated surface is exposed to a suitable light, the contact angle of the surface with water is reduced gradually. After sufficient exposure to the light, it becomes super hydrophilic. The static charges happened on it will be balanced by the humidity instantly. The attraction of dust to the ONID-TA coated is minimized because of its anti-static feature.

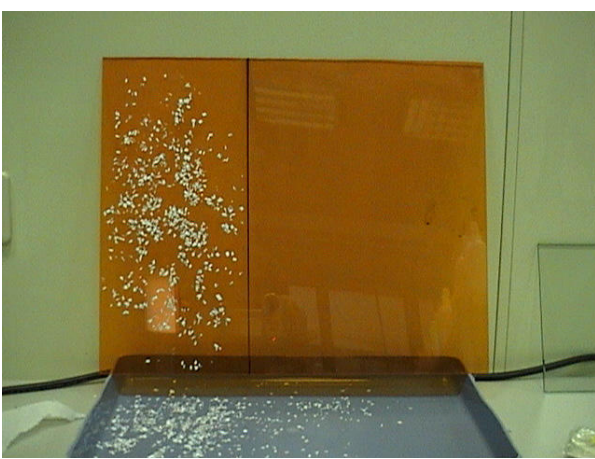


Photo catalysts applied with a with a nylon cloth to the right side. Uncoated part attracts on the left, show a lot of paper scraps while the coated part does not.

