



ArcelorMittal

LUMINANCE[®]



Reflective surfaces
for the lighting industry

Arceo

LUMINANCE®

Arceo

As a world leader in steel manufacturing, **ArcelorMittal** strives to stay at the forefront in coating processes.

With **R&D** centres that employ 1,300 people and have an annual budget of \$190 million, the group is continuously developing new products and **supporting its customers** by researching and developing new steel-based systems.

ARCEO, a subsidiary company of **ArcelorMittal**, is located in Liège (Belgium) and has an industrial production line totally dedicated to PVD (Physical Vapour Deposition) technology. The principle of PVD consists of accelerating ions under a vacuum and colliding them with a coating material. This removes atoms away from the material and deposits them evenly across the surface of the sheet to be coated.

This technology enables many different types of new development that can be applied to every market in which the ArcelorMittal Group is active: **energy management** (solar and lighting), automotive, construction, industry etc.



➔ Luminance® product range

Luminance® is the result of ArcelorMittal Research & Development into producing an alternative to aluminium reflectors for the lighting market.

Luminance® is the trade name for the high quality reflective surfaces produced by Arceo. This product is suitable for indoor luminaires (louvres and reflectors).

Luminance® is available in 3 finishes : Matt, Semi and Gloss.

Product	Total Reflectivity	Diffuse Reflectivity (5°)
Luminance® Gloss (specular)	85%	7%-10%
Luminance® Semi (satin)	85%	15%-25%
Luminance® Matt (diffuse)	85%	40%-65%
Luminance® Matt (diffuse) with protective top coat	82%	40%-65%

Luminance® Color is a reflective surface with **pre-painted back face**.



Reflective surfaces for the lighting industry

➔ Product Overview

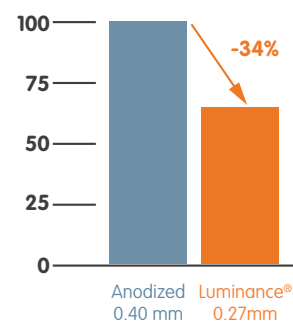
- Composite material with **PVD coating** consisting of multiple layers designed to significantly enhance reflectivity
- This reflective surface is an **alternative to aluminium**
- **Total reflectivity above 82%**
- Luminance® is totally **iridescence-free** (no coloration in respect of the angle of reflection)
- Luminance® creates **no anisotropy** (the product exhibits the same visual properties in all directions)
- The material is compatible with most lighting production tools
- The product can tolerate a **large range of deformation**: bending, profiling or die-forming

➔ Supply specifications

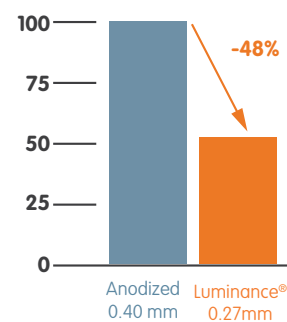
- Thickness: 0.27mm (0.011 in) or 0.18mm (0.007 in)
Other thicknesses available on request
- Delivery format: coils, slit coils or sheets
- Standard packaging: paper on wooden pallet
- Temporary protection: strippable film
Film is not necessary in case of protective top coat.

- Luminance® **is environmentally friendly**
 - Luminance® is easily and fully recyclable
 - The material complies with the RoHS (Restriction of use of Hazardous Substances) directive
 - Life Cycle Assessment (ref. CO2 emission and energy used during production):

Emission of CO₂ *



Energy used*



* Detailed information available



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