

Advanced ambient lighting control techniques

POAL's optical techniques provide optimum lighting control and geometric design to realise diverse uniform lighting effects.

We have the specialist knowledge and skills to develop intricate optical parts to fit within complex and compact mechanical package spaces of vehicle components. As shown on the prototype example of an OEM air vent component below.



Flexible and adaptable lightguides techniques

Soft trim backlighting with natural & sustainable materials can be achieved with minimal LED sources.



By advanced control of light distribution and uniform light extraction methods using our lasered structure methods, we can produce complex dynamic illuminations with reduced number of LED's and low profile package design. Specially moulded plastics or cast silicone materials can be used to produce more flexible and complex shaped lightguides and diffusers.