



CAD+

LIGHTING CONSULTANTS

EXTERNAL LIGHTING

CASE STUDY: 2

REAR LAMPS



- + Design and development of an LED Full Width Rear Lamp (FWRL)
- + FWRL combines both stop and tail in a pin-stripe format
- + Carbon fibre cladding over the entire length of the FWRL
- + Central High Mounted Stop Lamp (CHMSL) to match FWRL appearance
- + Both FWRL and CHMSL designed to meet both ECE and FMVSS108 regulations
- + External rear lamp control module used to control both FWRL and CHMSL

HEAD LAMP

- + Design and development of distinctive vertical head lamp
- + Bespoke daytime running lamp, front direction indicator and front position lamps with internal driver module
- + High and low beam modules were carried over from deconstructed after-market head lamp units
- + Active air circulator system to assist with both condensation and thermal management
- + Includes both aiming and assembly alignment





DELIVERABLES

- + Design and development of external lighting on Czingler 21C hyper car
- + Geometric, feasibility and regulation compliance studies
- + Visualisations and conceptual design of bespoke external lamps
- + Photometric / colorimetric measurement on both bespoke and carry-over lamps
- + Simulation and analysis of the bespoke lighting functions
- + Design for manufacture with both process and material selection
- + Homologation management, documentation, sample preparation and testing
- + Integration of LED lighting technologies
- + Project management, technology & supplier resourcing
- + Digital & physical prototyping and proof of concept



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