

Category	Audit Items	Pass ☒	Fail ☒	Obs ☒	Remarks
1. Legal & Qualification	Valid business license, scope covers automotive lighting	☐	☐	☐	
	Own production workshop (not trading only)	☐	☐	☐	
	Customs & export filing completed	☐	☐	☐	
	No product recall or serious quality penalty records	☐	☐	☐	
2. Certifications & Compliance	ISO9001 / IATF16949 (IATF preferred)	☐	☐	☐	
	ECE R10(EMC), ECE R112 / DOT SAE photometry	☐	☐	☐	
	RoHS, REACH, UKCA (per target market)	☐	☐	☐	
	CANBUS, IP67/IP68, salt spray & vibration test reports	☐	☐	☐	
	Restricted substance / IMDS material compliance	☐	☐	☐	
3. Lab & Testing Capacity	Integrating sphere, goniophotometer available in-house	☐	☐	☐	
	EMC test equipment, aging rack, thermal cycling & leak tester	☐	☐	☐	
	Batch test data properly archived	☐	☐	☐	
	FAI, PPAP, FMEA documents available	☐	☐	☐	
4. Production & ESD Control	Complete lines: SMT, assembly, burn-in, packaging	☐	☐	☐	
	ESD protection: mat, wrist strap, ion fan & training log	☐	☐	☐	
	Dust control for optical assembly area	☐	☐	☐	
	Full traceability with unique batch marking	☐	☐	☐	
5. QC: IQC / IPQC / OQC	IQC: LED chip binning, heatsink, lens, driver & seal check	☐	☐	☐	
	IPQC: AOI, 100% power test, burn-in & air tightness test	☐	☐	☐	
	OQC: AQL sampling, random photometric inspection	☐	☐	☐	
	Non-conformity control, CAPA & root cause analysis	☐	☐	☐	
6. Product Technical Standard	Automotive grade LED chips	☐	☐	☐	
	Thermal design: copper tube / heatsink + overheat protection	☐	☐	☐	
	Constant current CANBUS driver, no OBD error code	☐	☐	☐	
	Accurate fitment: H4 / H7 / H11 / 9005 / 9006 etc.	☐	☐	☐	
	IP sealing structure, anti-condensation design	☐	☐	☐	
7. Capacity, OEM & After-sales	Clear monthly capacity & production lead time	☐	☐	☐	
	Support OEM / ODM, custom logo & mould	☐	☐	☐	
	Defined warranty term (2-3 years typical)	☐	☐	☐	
	RMA tracking & customer complaint handling process	☐	☐	☐	