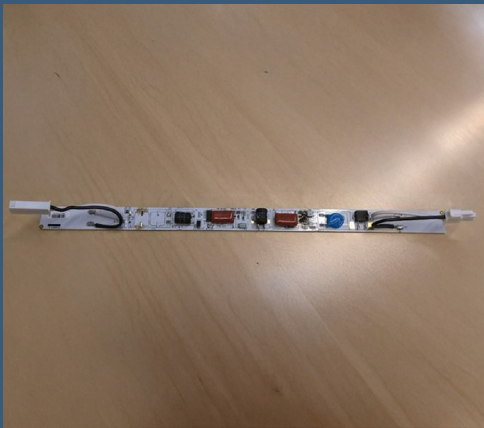




LED Lighting

Project Timeline: 9 Months



OVERVIEW

This lower-cost indoor lighting product comes in 1-foot and 4-foot versions, snapping together end-to-end with the existing power cord and no gaps. Electrical components were designed with KTC to meet lighting and power specs. Quality checks addressed color, texture, and plastic defects, with low-cost molds and dies for manufacturing. The PCA uses a double-sided SMT design with onboard AC/DC conversion.

DESIGN AND DEVELOPMENT

New Product Introduction

- Defined critical product and process characteristics, performed tolerance analysis, identified key characteristics, and completed DFMEA
- Finalized customer's industrial design and mechanical development
- Supported manufacturing processes, plastics, and tooling design
- Created comprehensive test and quality plans

Design Verification & Qualification

- Developed detailed product specifications, DVT, and qualification plans
- Analyzed test data and implemented design improvements as needed
- Verified first articles for all components
- Conducted DVT and qualification testing on pilot and production units
- Archived all test reports in a centralized database



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