

Design Express User Guide

Design Express is a series of templates that organizes lighting control requirements into a clear, standardized Control Intent Narrative/Sequence of Operations format. It helps teams design, document, and verify lighting control strategies across different space types and control strategies, ensuring that construction documents are more complete and providing necessary information for project participants (agents, distributors, installers, programmers) throughout the construction process. With these templates, designers can create both a design aid and a record of due diligence for review and commissioning.

Purpose

The Design Express templates are based on the lighting control requirements of the 2024 International Energy Conservation Code (IECC). It is pre-populated with parameters aligned to these requirements, while leaving flexibility to edit according to your project's specifics. The templates were designed to be tailorable to one's own needs by editing and modifying the document with minimal hassle.

How to Use It

- 1) *Start early:* Begin filling in the Tool's matrix during schematic design and refine the information as the project develops.
- 2) *Edit the red text:* Replace placeholder [RED] notes with project-specific details (e.g., drawings, spec sections, operating hours).
- 3) *Choose and adjust:* Use dropdowns, checkboxes, and editable fields to reflect actual strategies (occupant sensors, daylight response, time-switch, etc.).
- 4) *Remove unused items:* Delete extra rows, columns, or cells that do not apply to the project to streamline the document.
- 5) *Add notes:* Use the "Notes & References" section on the matrix to document coordination items, clarify intent, and provide cross-references.
- 6) *Finalize and share:* Include the completed matrix in your drawings, specifications, or submission package.
- 7) *Consult the Reference Manual:* The *CIN/SOO Tool Reference Manual* provides a more detailed guide on how to use the tool.

Disclaimer

This template is based on minimum requirements from the 2024 IECC and provided for educational purposes only. It is not a substitute for professional design, engineering, or consulting services. Users use and adapt at their own risk. Consult the Authority Having Jurisdiction (AHJ) for final code interpretation. The Lighting Controls Academy, NEMA, and their affiliates assume no liability for errors, omissions, or misuse.