



Introduction

The Cisco Digital Building Cree Solution is an Over the Top (OTT) connected lighting system that uses the Cisco Universal Power over Ethernet (UPOE) switching products and Cree SmartCast® protocol to directly control networks of IP light fixtures and provide indoor lighting services on the enterprise network.

The scope of this document is limited to implementation of a lighting network for initial installation and migrating the lighting setup to system network topologies described in the *Cisco Digital Building Cree Design Guide*.



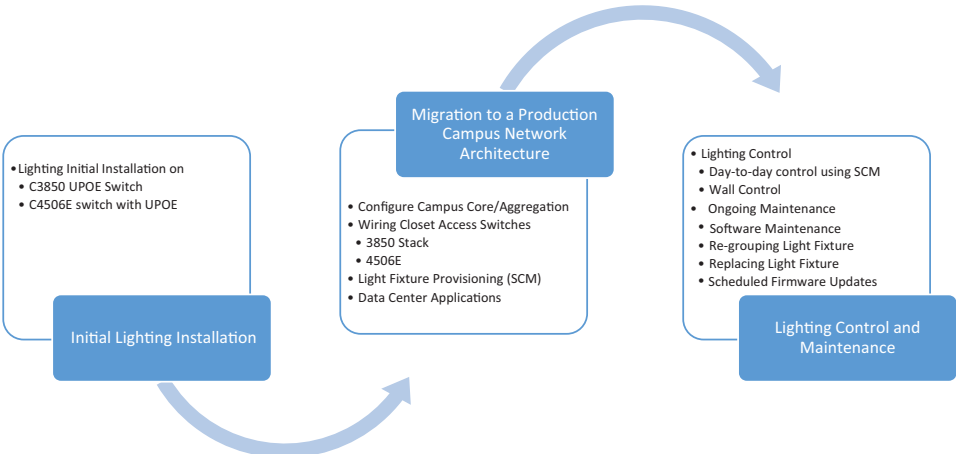
Note

Detailed configuration steps for implementing Cree SmartCast lighting system are covered in the *Cree SmartCast PoE User Manual v1.2.2*, which is referenced in this document wherever applicable.

Implementation Workflow

This section provides the high level implementation flow, as shown in [Figure 1-1](#), for deploying the Cisco Digital Building Cree Solution on a large scale system topology. We recommend following this implementation flow, when deploying the solution on system topologies with no Campus Network core and small site installation.

Figure 1-1 Cisco Digital Building Cree Solution Implementation Workflow



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The Cisco Digital Building Cree Solution is based on a centralized model in which the light fixtures are connected to Cisco Catalyst 3850 UPOE standalone switches, Cisco Catalyst 3850 stack switches, or the Cisco Catalyst 4500E UPOE switch, which are deployed in the wiring closet. The Cisco Digital Building Cree Solution is deployed on a separate logical network. The lighting network has its own separate VLAN to communicate with lighting components such as fixtures and lighting management applications.