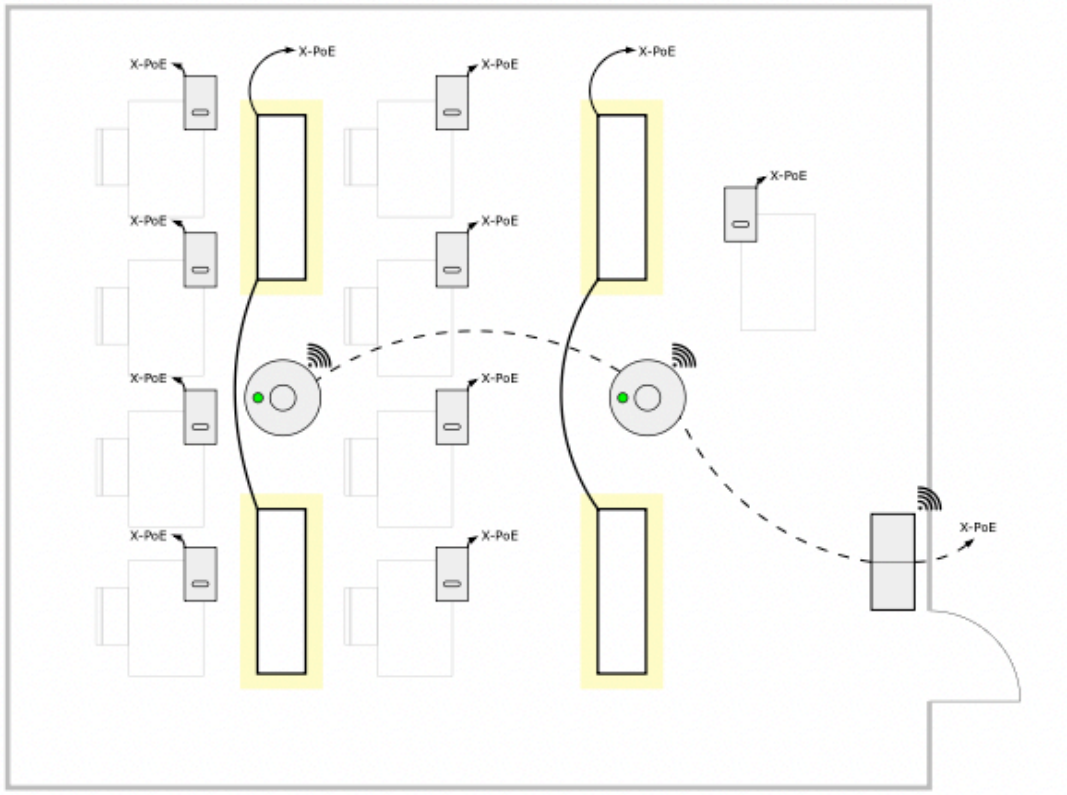
CLASSROOM - EXAMPLE LAYOUT

LAYOUT

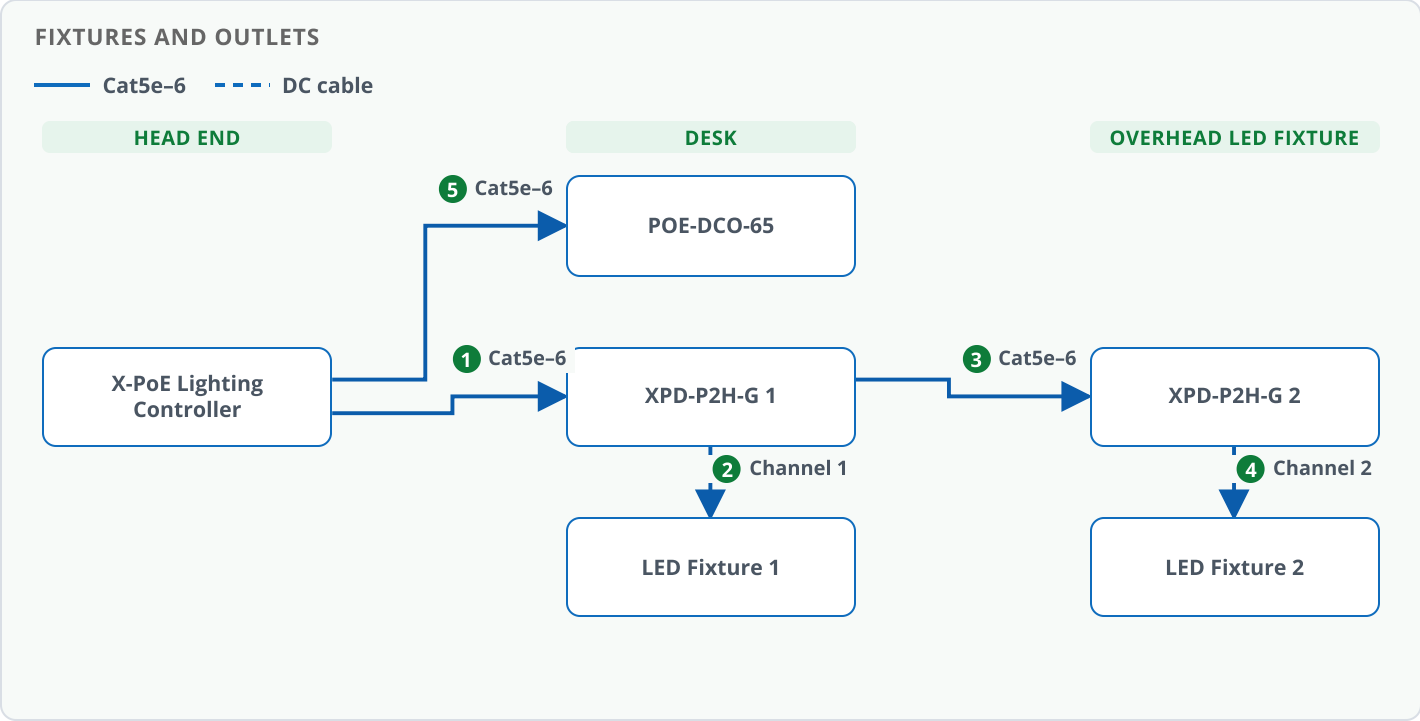


A modern classroom requires efficient and streamlined power distribution for electronic devices and lighting. USB-C outlets are installed at student desks and instructor workstations, delivering up to 65W per port for charging laptops, tablets, and other USB-C devices. Overhead LED fixtures are daisy chained to consume the entire power budget of an X-PoE port. In the above scenario, X-PoE lighting controllers provide power to the USB-C outlets, LED fixtures, and 3rd party wireless controls system. The X-PoE lighting controllers are housed remotely, along with their power supply, and the 3rd party control system host. The X-PoE lighting controls system is integrated with the 3rd party control system via API and/or MQTT.

FIXTURES & OUTLETS

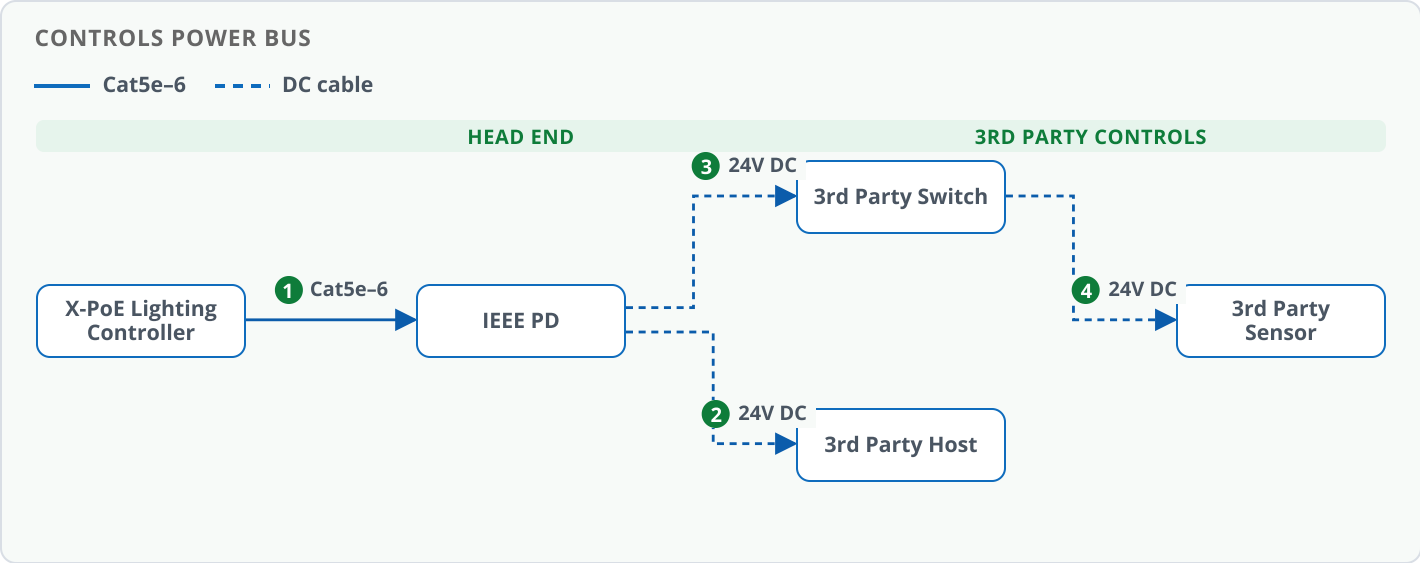
- 3rd party 36V 1,000mA LED fixtures are daisy chained, up to 2.23A. For more information, see D1.2 - Output Power Range.
- Multiple fixtures/X-PoE port, utilizing **2 channel** XPD-P2H-G.

- One POE-DCO-65 USB-C outlet per port, up to 65W per outlet.



CONTROLS

- 3rd party wireless lighting controls system, integrated with X-PoE. For more information, see D6.1 - Integration.
- 24V power bus to devices from standard IEEE PoE PD:



SYSTEM COMPONENTS

Qty	Description	Vendor	Part Number
4	3rd Party LED Light Fixtures X-PoE PDs	n/a Luum.io	n/a XPD-P2H-G
9	USB-C Outlets	Luum.io	POE-DCO-65
n/a	3rd Party Wireless Control System (motion sensors, switches, wireless gateway (not shown))	n/a	n/a
1	Standard IEEE PoE to 24V PD (not shown)	n/a	n/a
1	8 Port X-PoE Lighting Controller Power Supply (not shown)	Luum.io n/a	XS-108H (power supply not included)

RELATED INFORMATION

Technical Support

Questions about this classroom layout can be sent to support@luum.io.

Document Feedback

While we have taken great care to ensure the accuracy and completeness of this document, we welcome your feedback and suggestions. If you notice any errors or omissions, or feel a topic could benefit from further explanation, please email your feedback to support@luum.io.

Revision History

Date	Revision	Notes
11/3/2026	A	Converted to the current guide format.

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