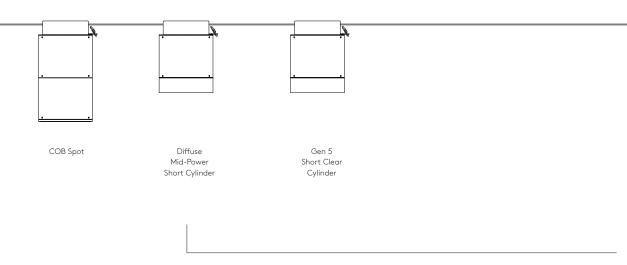


selux



Melli™ Catenary

Melli™ is a medium scale architectural indoor/outdoor luminaire family that transforms for applications that require strict precise roadway lighting, soft diffuse light, or even focused spot distributions. With Melli™, the same form factor is implemented throughout the entire family - mix and match optics with any of the five mounting types for an aesthetically cohesive design. The Melli range excels at illuminating spaces such as plazas, shopping centers, pedestrian areas, or any space requiring high end site, facade, pendant, or catenary lighting.



Product Specifications

Mounting: Catenary

(for other mountings, see Melli™ Application Guide or spec sheets)

Light Engine: Gen 5: Type I · Type II · Type III · Type IV · Type V round

Diffuse: short diffuse · long diffuse

Spot COB: spot 9° · spot 20° · flood 40° · flood 80°

Optics: Gen 5: up to 3,254lm

Diffuse: up to 3,362lm **Spot COB:** up to 2,908lm

CCT: 2700K · 3000K · 3500K · 4000K · 5000K · 80CRI minimum

Options: Hexagonal louver \cdot spread lens \cdot color filter \cdot

motion sensor · house-side shield

Melli™ is available in a wide variety:

Gen5 with short glass Gen 5 with long glass Diffused with short glass Diffused with long glass Spot COB

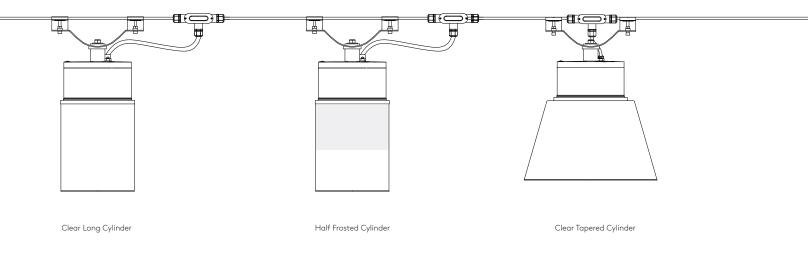
Refer to luminaire specification sheet or installation instructions for various wiring scenarios.



Lanova Catenary

Lanova by Selux is an attractive LED luminaire perfect for a designer needing improved visual guidance and purposeful light. Lanova allows you the design freedom to position the light exactly where it is required with a luminous focal point or a dramatic shadow. It creates the perfect ambiance—a modest light during the day transforms to a functional and energizing light by nightfall. Lanova creates excellent visibility and enhanced safety and security in large public areas such as parks, plazas, and campus squares.

Lanova catenary and pendant systems deliver a wide range of looks and optical options. The two optical system options include the Gen5 technical versions (Type I, Type II, Type III, Type IV, Type V Round, and Type V Square) and a diffuse ambiance version.



Product Specifications

Light engine: GEN5

Output: 1,300lm - 4,500lm nominal

CCT: 3000K \cdot 4000K \cdot 3-Step Binning \cdot 80+ CRI

Distributions: Type I · Type II · Type III · Type III Wide · Type IV,

Type V Round · Type V Square · Type V Rectangular ·

Diffuse Bowl

Options: Dimming \cdot Hi-Lo Switching, House Side Shield \cdot Mid-Run

Connector \cdot Clear Long Cylinder \cdot ½ Frosted Cylinder \cdot

Clear Tapered Cylinder

Refer to luminaire specification sheet or installation

instructions for various wiring scenarios.

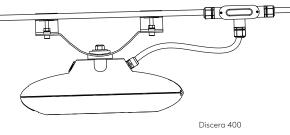


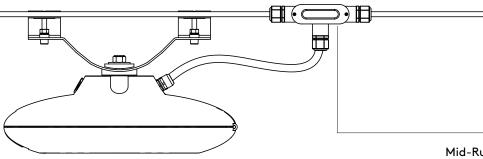


Discera Catenary

Discera Catenary is a sleek LED fixture perfect for any designer needing improved visual guidance and precise placement of light. Suspending the Discera Catenary on cables allows light to be focused where it is needed, leaving other places in shadow, creating a beautiful and dramatic effect. The recessed optics in the Discera shield the light source for more comfortable viewing. Having the choice of housing size, distribution, and output level allows the luminaire to be applied in a very tailored way.

Discera Catenary can be used to guide pedestrians, providing a sense of safety and security. Selux will work with you to engineer an elegant and unique solution for your project.





Discera 600

Product Specifications

Light engine: GEN5

Output: 3,300lm - 13,400lm nominal

CCT: 2700K · 3000K · 4000K · 3-Step Binning · 80+ CRI
Distributions: Type II · Type III · Type III · Type III · Type IV ·

Type V Round

Options: Dimming \cdot House Side Shield \cdot Diffuse Flat Glass \cdot

Mid-Run Connector

Refer to luminaire specification sheet or installation

instructions for various wiring scenarios.

Mid-Run Splice Connector

Provided for catenary applications with multiple luminaires in a run to combine the line cords attached to the luminaires

What Can Selux Provide?

Selux can offer the complete solution. By submitting a completed Catenary Design Guide Form, Selux will build a catenary package fully engineered with supporting poles, cables, cords, and luminaires. Anchoring catenary systems to buildings or structures not provided by Selux will have to be evaluated by the on-site Professional Engineer (PE).

Catenary suspended luminaires require additional materials for proper installation for the lighting system. These additional materials include structural tension cable for luminaire suspension and fittings for attachment to the building structure or structural masts/poles and cable ends. Stainless steel is recommended due to its resistance to corrosion, strength, long life, and aesthetic appearance. Reference the luminaire weight and EPA on product specification sheet.



Westgate Oxford, Oxford, Great Britain - Photographer Tom Niven, Amphitype



Clevis Assembly & Adjustable Turnbuckles

Manual adjustment is provided by rotating the adjusting sleeve.



Offers the best combination of strength and stiffness for static structures. As spans and loads increase, the cables get larger in diameter (the number of strands increases).





Poles & Anchor Points

Selux can provide mounting points for poles or anchored brackets to buildings or structures. Selux can provide calculations and size the poles appropriately on a project-specific basis. Brackets to structure must be evaluated by on-site PE.

Professional Engineer Stamped Drawings

Selux can provide stamped drawings (if required) for a fee. It is important to identify this at the early stages of the project so the cost can be included in the budget. Stamped drawings may extend the lead time.



^{*}Selux does not provide structural design and engineering of building attachment or pole foundation, catenary system installation, or building cable attachment details.

General Questions

often asked



How much cable sag can be expected in a cable span?

As a rule of thumb, plan on a sag of 3% of the cable span for each cable length. For example, if you had a 33' cable span, the maximum vertical displacement, or sag would be approximately 12".



What is the typical process when requesting a budget estimate?

Once Selux has obtained all of the project information needed, it will typically take one to two weeks (dependent on design complexity) for preliminary budgets.



Is geographic location important in catenary design?

Geographic location is critical when designing your project. Wind loads and other loads factor into the cabling and pole requirements.

Catenary Design



Ithaca Commons, Ithaca, New York

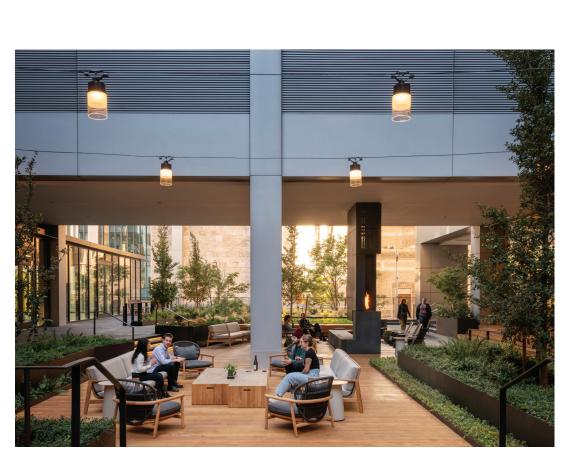






Riverfront Park, Troy, New York - HyExposure Photography







800 Fifth Avenue, Seattle, Washington - Photographer: Aron Leitz



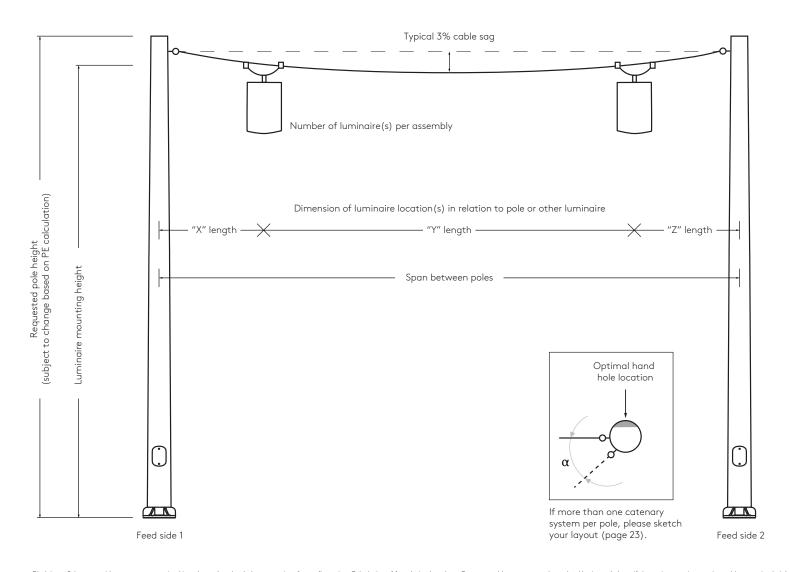




Lincoln Park, Long Beach, CA - Photographer: Dave Burk

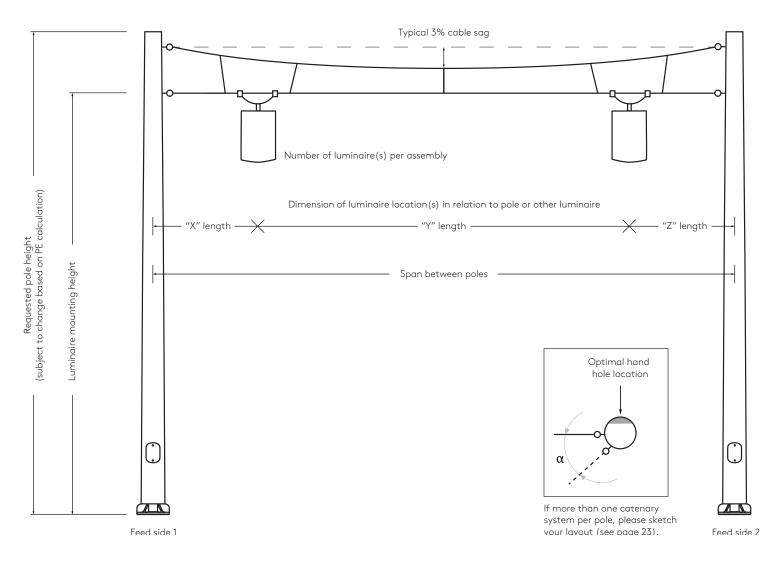
Single Wire Catenary Suspension

Pole to Pole (Type A)



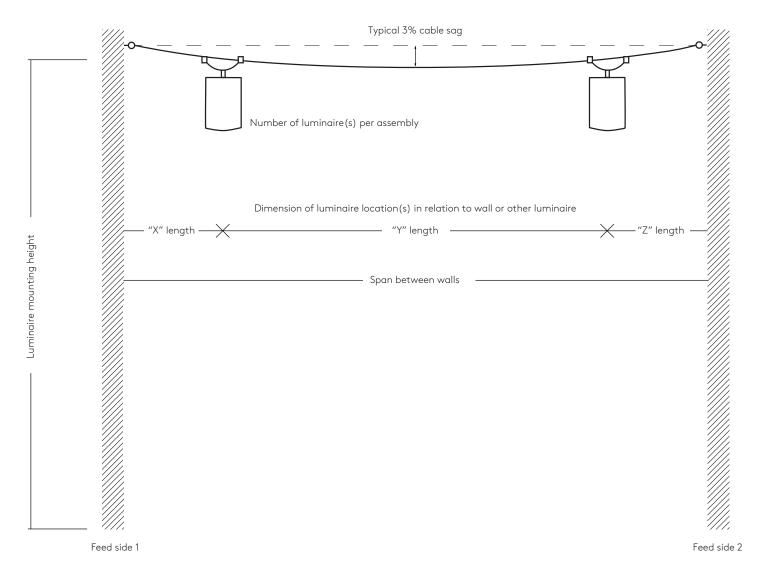
Double Wire Catenary Suspension

Pole to Pole (Type B)



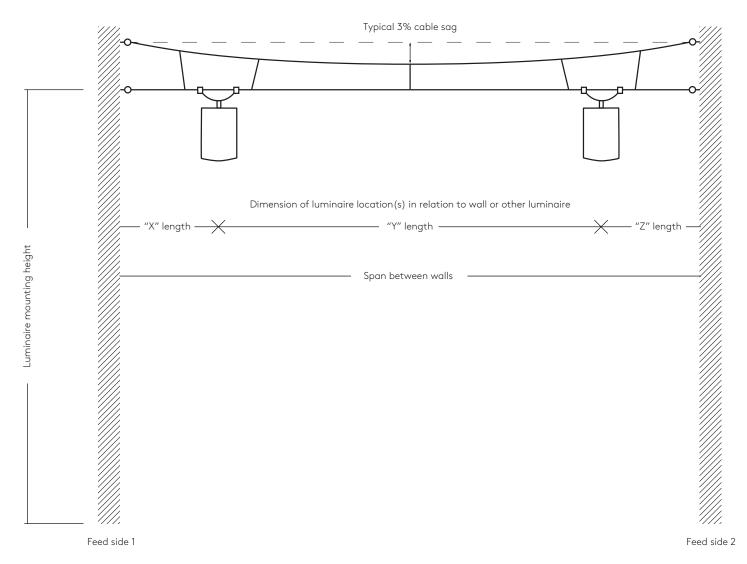
Single Wire Catenary Suspension

Wall to Wall (Type C)



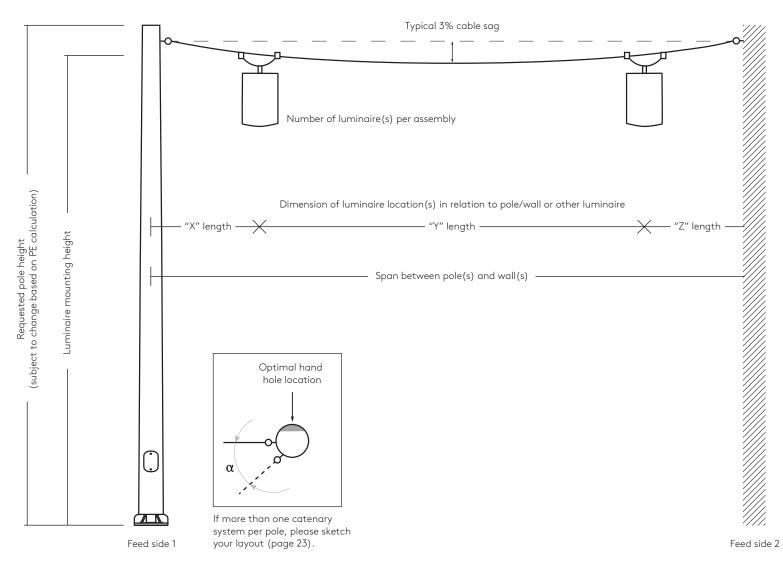
Double Wire Catenary Suspension

Wall to Wall (Type D)



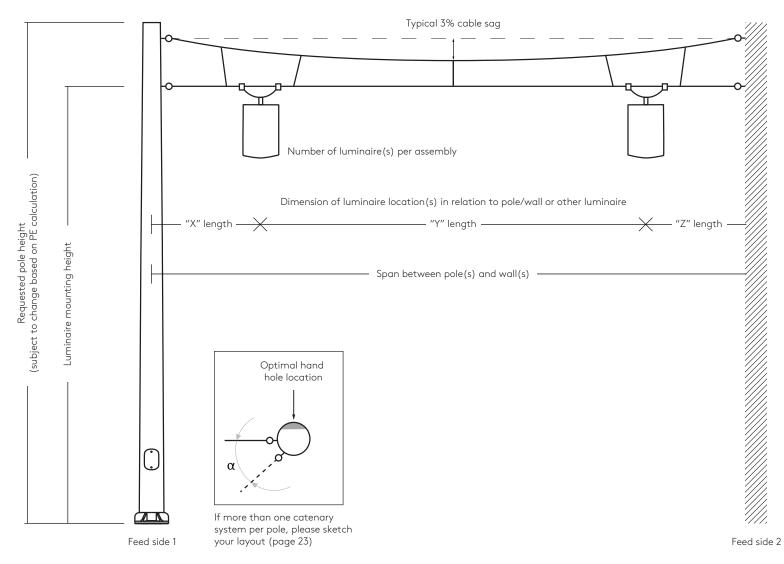
Single Wire Catenary Suspension

Pole to Wall (Type E)

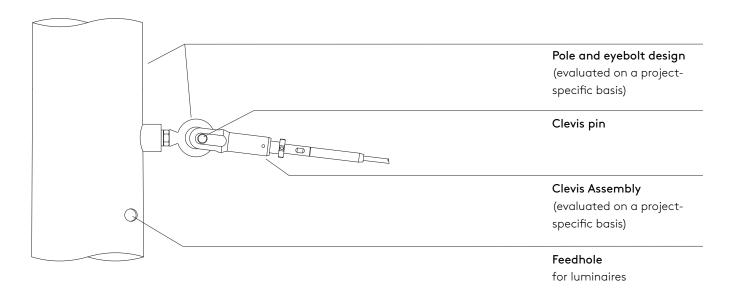


Double Wire Catenary Suspension

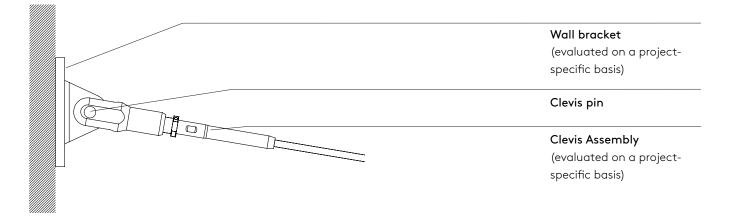
Pole to Wall (Type F)



Example Pole Anchor Detail



Example Wall Anchor Detail



Selux will size and provide

pole or wall anchor details

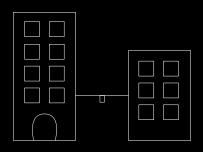
On a project-specific basis, Selux will size and provide pole or wall anchor details. These details are completely dependent on the catenary system and its application. To the left are generic anchor details from previous projects.

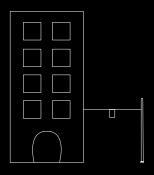


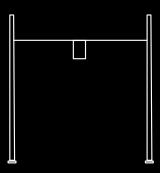
T-Mobile Call Center Facility - Kris Decker/Firewater Photography

At time of order for the catenary system,

Selux will need the following in order to process the solution







Building-to-Building

Applications

- Completed Catenary Design Guide request form
- 2 Confirmed site and catenary span dimensions
- 3 Expected wind speed for the project location
- 4 Relative building movements from site professional engineer will the walls move independently from each other (how much movement) or will the building be considered as one unit?
- 5 Site Plan (CAD Required)

Building-to-Pole

Applications

- Completed Catenary Design Guide request form
- 2 Confirmed site and catenary span dimensions
- 3 Expected wind speed for the project location
- 4 Relative building movements from site professional engineer will the walls move independently from each other (how much movement) or will the building be considered as one unit?
- 5 Site Plan (CAD Required)

Pole-to-Pole

Applications

- Completed Catenary Design Guide request form
- 2 Confirmed site and catenary span dimensions
- Expected wind speed for the project location
- 4 Site Plan (CAD Required)



Lobo Rainforest, Albuquerque, NM - Photographer: Dekker/Perich/Sabatini

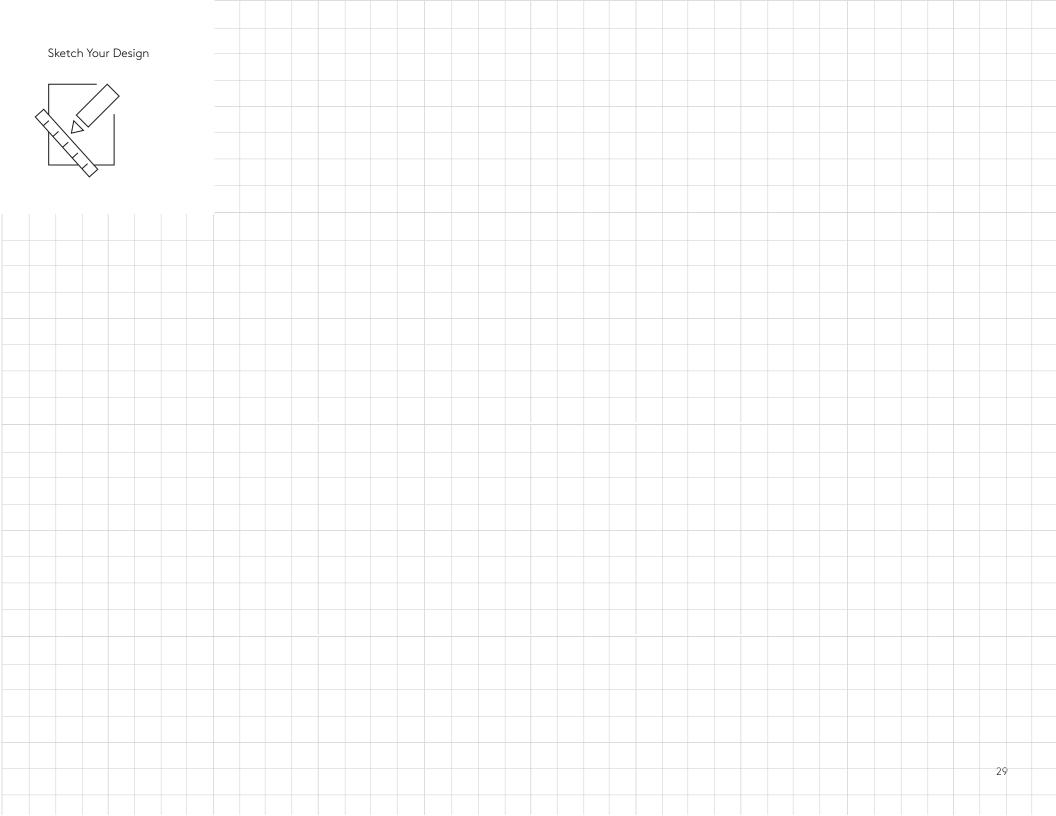
Catenary Design Guide Form

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Date: Customer:		Project:	
Project location:		•	
Catenary configuration type:		No. of luminaire(s) per span:	
Dimension(s) of fixture location(s) in rela	ation to pole:		
Luminaire catalog #:		Luminaire mounting height:	
Span between pole(s) or structure (provi	ide dimensions):		
Requested pole height:			
Requested hand hole location:	☐ Optimal location	☐ Per specification:	

Sketch Your Design

On the following page, sketch your catenary system or provide Selux with a CAD file for review and pricing purposes. If PE stamped drawing is required, please contact the factory for pricing. Confirm mounting elevation and environmental conditions at time of order. Selux to be provided with confirmed catenary span dimensions before approval drawings can be issued. Submit your catenary design to Selux Technical Support at selux.technical@selux.com or to your Regional Sales Manager.





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