**Product Specifications**

**Light Engine:** Gen5  
**Output:** 1,300lm - 4,500lm nominal  
**CCT:** 3000K, 4000K; 3-Step Binning; 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, Hi-Lo Switching, House Side Shield, Mid-Run Connector, Clear Long Cylinder, ¼ Frosted Cylinder, Clear Tapered Cylinder

**Mid-Run Splice Connector Option**  
Provided for catenary applications with multiple luminaires in a run to combine the line cords attached to the luminaires. Refer to the Lanova Catenary LED Installation Instructions for more information.
Product Specifications

Light Engine: Gen5
Output: 3,300lm - 13,400lm nominal
CCT: 2700K, 3000K, 4000K; 3-Step Binning; 80+ CRI
Distributions: Type I, Type II, Type III, Type III Wide, Type IV, Type V Round, Type V Square, Type V Rectangular
Options: Dimming, Hi-Lo Switching, House Side Shield, Mid-Run Connector

Mid-Run Splice Connector Option
Provided for catenary applications with multiple luminaires in a run to combine the line cords attached to the luminaires. Refer to the Discera Catenary LED Installation Instructions for more information.
What Selux Can 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.

- **Clevis Assembly & Adjustable Turnbuckles**
  Manual adjustment is provided by rotating the adjusting sleeve.

- **Stainless Steel Structural Tension Cable**
  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

**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 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.
**Pole to Pole Examples**

**Single Wire Catenary Suspension | Pole to Pole (Type A)**

- Typical 3% cable sag
- Number of luminaire(s) per assembly
- Dimension of luminaire location(s) in relation to pole or other luminaire
  - “X” length
  - “Y” length
  - “Z” length
- Span between poles

If more than one catenary system per pole, please sketch your layout (see page 8).

**Double Wire Catenary Suspension | Pole to Pole (Type B)**

- Typical 3% cable sag
- Number of luminaire(s) per assembly
- Dimension of luminaire location(s) in relation to pole or other luminaire
  - “X” length
  - “Y” length
  - “Z” length
- Span between poles

Disclaimer: Selux to provide catenary suspension kit, poles and anchor bolts appropriate for configuration. Calculation of foundation by others. Catenary cable system must be on level horizontal plane; if the project requires varying cable mounting heights, please consult the factory.
Wall to Wall Examples

Single Wire Catenary Suspension | Wall to Wall (Type C)

Double Wire Catenary Suspension | Wall to Wall (Type D)

Disclaimer: Selux to provide catenary suspension kit and wall mounting plates. Mounting holes in wall plate based on structural integrity of wall plate. Static calculation and specification of mounting hardware by others. Confirm size of mounting hardware by others before approval drawings are issued. Catenary cable system must be on level horizontal plane; if the project requires varying cable mounting heights, please consult the factory.
Pole to Wall Examples

Single Wire Catenary Suspension | Pole to Wall (Type E)

Double Wire Catenary Suspension | Pole to Wall (Type F)

Disclaimer: Selux to provide catenary suspension kit, poles and anchor bolts appropriate for configuration. Calculation of foundation by others. Selux to provide catenary suspension kit and wall mounting plates. Mounting holes in wall plate based on structural integrity of wall plate. Static calculation and specification of mounting hardware by others. Confirm size of mounting hardware by others before approval drawings are issued. Catenary cable system must be on level horizontal plane; if the project requires varying cable mounting heights, please consult the factory.
Pole and 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. Below are generic anchor details from previous projects.

Example Pole Anchor Detail

Example Wall Anchor Detail
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 on a case-by-case basis.

Date:______________  Customer:________________________________________  Project:________________________________________

Project location: ____________________________________________  ☐ Exterior application  ☐ Interior application

Catenary configuration type: __________________________  No. of luminaire(s) per span: __________________________

Dimension(s) of fixture location(s) in relation to pole: __________________________

Luminaire catalog #: __________________________  Luminaire mounting height: __________________________

Span between pole(s) or structure (provide dimensions): __________________________

Requested pole height: __________________________

Requested hand hole location:  ☐ Optimal location  ☐ Per specification: __________________________

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### Sketch Your Design

Sketch your catenary system below 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.