

THE LINE

Application Guide



selux

Product Specifications



| Series | Line | Line Black | Line Twist |
|---------------------|--|--|--|
| Mounting | Column · Bollard | Column · Bollard | Column |
| Optics | Asymmetric (AS) Asymmetric Medium (AM) Asymmetric Wide (AW) Symmetric (double light engine chosen) | Asymmetric (AS) Asymmetric Medium (AM) Asymmetric Wide (AW) Symmetric (double light engine chosen) | Symmetric distribution (12 Cell) Asymmetric distribution (6 Cell) |
| Light Engine | Bollard: 1 Cell, 3 Cell; single or double Column: 6 Cell: single or double 12 Cell: single or double | Bollard: 1 Cell, 3 Cell; single or double Column: 6 Cell: single or double 12 Cell: single or double | 6 Cell: Asymmetric coverage; twist right or left 12 Cell: Symmetric coverage; twist right or left |
| CCT | 2700K · 3000K · 3500K · 4000K · 5000K 80CRI minimum | 2700K · 3000K · 3500K · 4000K · 5000K 80CRI minimum | 2700K · 3000K · 3500K · 4000K · 5000K 80CRI minimum |
| Height | Bollard: 3 ft. · 3.5 ft. · 4 ft. Column: 10 ft. · 12 ft. · 14 ft. · 16 ft. · 18 ft. | Bollard: 3 ft. · 3.5 ft. · 4 ft. Column: 10 ft. · 12 ft. · 14 ft. · 16 ft. · 18 ft. | Column: 10 ft. · 12 ft. · 14 ft. · 16 ft. · 18 ft. |
| Output | Bollard: Up to 1,992lm Column: Up to 8,000lm | Bollard: Up to 1,586lm Column: Up to 8,000lm | Column: Up to 4,500lm |
| Options | IK10 · GFCI · Twist Lock Receptacle · Motion Sensor with optional Photocell · USB & Duplex Receptacle · 0-10V Dimming · Comfort Feature · Direct Burial Base · External Base Cover | IK07 · GFCI · Twist Lock Receptacle · Motion Sensor with optional Photocell · USB & Duplex Receptacle · 0-10V Dimming · Comfort Feature · Direct Burial Base · External Base Cover | Line Twist IK10 · Line Black Twist IK07 · GFCI · Twist Lock Receptacle · Motion Sensor with optional Photocell · USB & Duplex Receptacle · 0-10V Dimming · Comfort Feature · Direct Burial Base · External Base Cover |

Line Column with Rotation

The 4 1/2" round light column is available with a choice of 3 Cell modules, 6 Cell modules, or 12 Cell modules as single or double configuration. Modules can be directed on a roadway, pathway, or both for more diverse illumination. Optics used in the Line family push light into a useful, well spread pattern for better coverage and spacing. Independent 360 degree rotation of light modules solves problems associated with incorrect installations. The freedom to rotate module positions provides the chance for unique arrangements. Choose between Line and Line Black optics depending on your application. Line optics with silver reflectors provide efficiency while black reflectors provide lighting performance with the maximum amount of environmental sensitivity possible.

Line Column no Rotation

The Line can be made in a 'pure' form version on a project basis. This version is made from a single pole, with modules cut in at fixed locations for the cleanest Line possible. Consult factory.

Line Twist

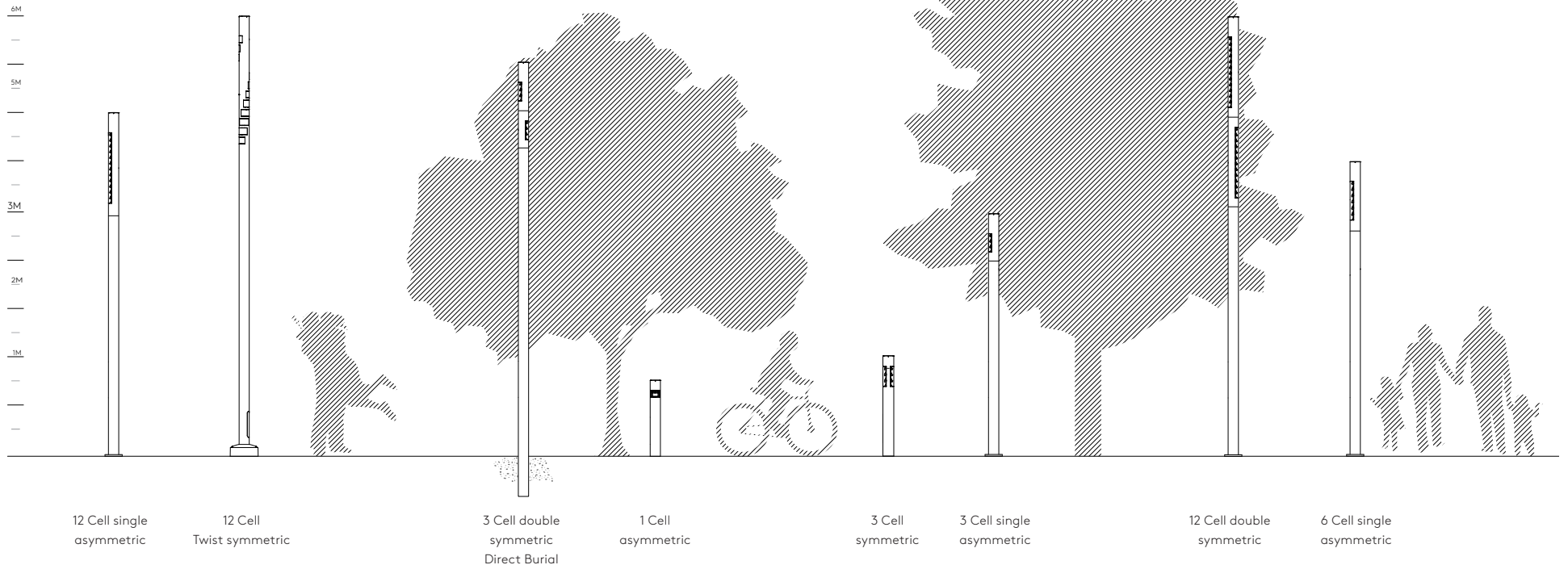
Line Twist is an aesthetically pleasing natural form, using Line light modules and a pure pole. A clean, visually appealing design adds interest to your site design as well as maximizing coverage in an efficient and unique way.

Bollard

The 4 1/2" round bollard is available with single or double 1 Cell modules or 3 Cell modules for symmetric or asymmetric lighting of pedestrian-scale applications. The scale of the bollard is well-suited for more intimate settings.

Minimized to the max - lighting for streets, pathways, and plazas, all from one vertical line

The design philosophy behind the Line is to drastically reduce the complexity of a luminaire's form by integrating the optics into a vertical line. The result: slim line luminaires that support a calm and clear urban landscape. The discreet form brings the lighting effect and the individual character of the luminaire's materials and surfaces more to the foreground. Minimized cross-sections ensure elegant proportions across the different column and bollard variations.



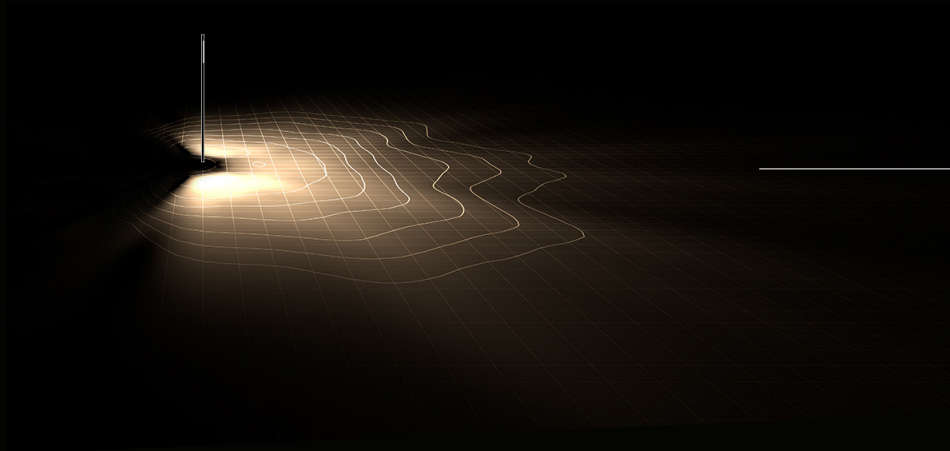
L I N E





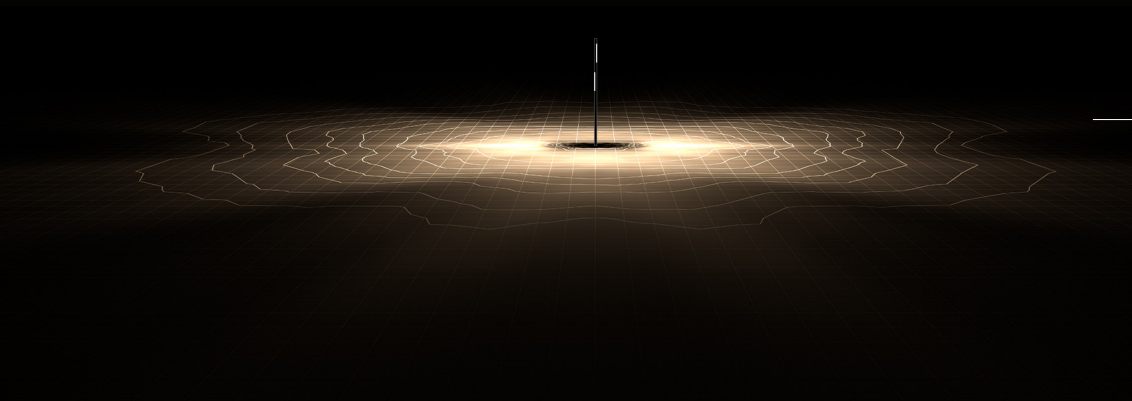
THEATER HEERLEN





Asymmetric (Single Light Module)

A single optic creates pure light for asymmetric illumination.



Symmetric (Double Light Module)

Combining two optics in a column creates symmetric illumination.

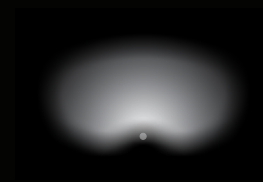
Linear optics

the scaling of light

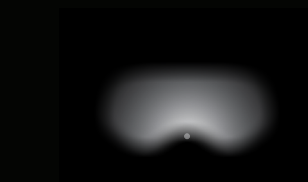
Selux is revolutionizing the look of street lighting by combining diverse functions in a radically reduced design and creating new clarity in the urban landscape. Vertical, linear optical cells fit seamlessly into a pure luminaire shape. The microfaceted reflectors provide high visual comfort and excellent glare control through an indirect lighting approach. The precision

optics target areas where light is needed most and illuminate residential spaces with respect to nature. Independent 360 degree rotation of lighting modules allows symmetric or asymmetric distributions with final positioning tailored on-site during installation for each module. Comfort feature option adds a diffuse primary optic to further soften the visual appearance.

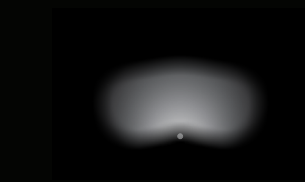
Standard Line Column Distributions



Asymmetric with Comfort Feature



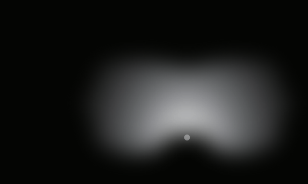
Asymmetric Medium with Comfort Feature



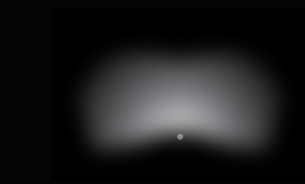
Asymmetric Wide with Comfort Feature



Asymmetric



Asymmetric Medium



Asymmetric Wide*

* Symmetric when double light is chosen

The Line optics

The linear optical cells fit seamlessly in the reduced design of the Line. To meet different application requirements, light output is scalable based on the size and quantity of modules chosen. The higher output modules will maintain the same visual comfort as the low output since surface area increases accordingly. Increasing surface area with lumen output maintains a consistent appearance across all module sizes.



Increased safety without disturbing the view.



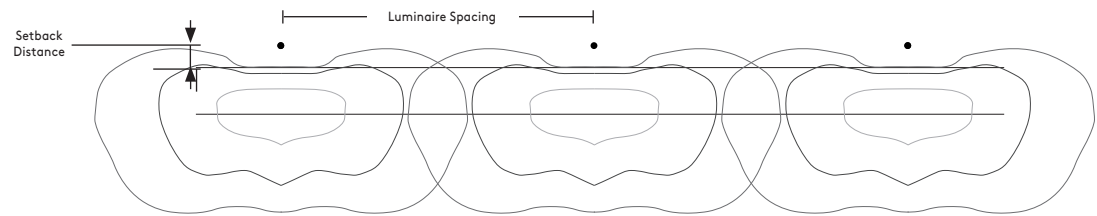
The Line application



Guidelines for Placement

When planning your exterior lighting placement, it is preferable to put your Line column at the recommended spacing provided. This will ensure your pathway remains bright and well-lit.

The charts below analyze which light engine was used (number of cells chosen) to determine the ideal positioning of your light column.



| Recommended Spacing Guide for Line | | | | | | |
|------------------------------------|----------------------------|-------------------|----------------------------|-------------------|----------------------------|-------------------|
| Light Engine | S03 | | S06 | | S12 | |
| | Setback distance from path | Luminaire Spacing | Setback distance from path | Luminaire Spacing | Setback distance from path | Luminaire Spacing |
| Comfort Feature (CF) | 3.5 ft. O.C. | 25 ft. O.C. | 3 ft. O.C. | 35 ft. O.C. | 3.5 ft. O.C. | 45 ft. O.C. |
| Reflectors Only | 3.5 ft. O.C. | 25 ft. O.C. | 3 ft. O.C. | 40 ft. O.C. | 3.5 ft. O.C. | 50 ft. O.C. |

*0.90 LLF
 *Based on 30K, "AW", 14 ft. Column
 *6 ft Wide Path

| Line Column Recommended Spacing Illuminance Analysis | | | | | | | | | | | | |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Light Engine | S03 | | | | S06 | | | | S12 | | | |
| | AVG (fc) | MIN (fc) | AVG/ MIN | MIN/ MAX | AVG (fc) | MIN (fc) | AVG/ MIN | MIN/ MAX | AVG (fc) | MIN (fc) | AVG/ MIN | MIN/ MAX |
| Comfort Feature (CF) | 1.46 | 1.1 | 1.33 | 1.55 | 2.01 | 1.4 | 1.44 | 2.14 | 3.4 | 1.2 | 2.83 | 4.75 |
| Reflectors Only | 1.52 | 1.1 | 1.38 | 1.64 | 1.89 | 1.2 | 1.69 | 2.33 | 3.19 | 1.7 | 1.88 | 3.24 |

*0.90 LLF
 *Based on 30K, "AW", 14 ft. Column
 *6 ft Wide Path



Combinations for one Line
with multiple functions



L I N E

B O L L A R D

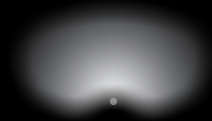




Bollard luminaires

With the right choice of material and optics, the scaled-down profile of the Line fits perfectly in intimate architectural settings. The 4 1/2" round bollard is the perfect optical tool to uniformly light pathways and create a comforting application.

Standard Bollard Distribution



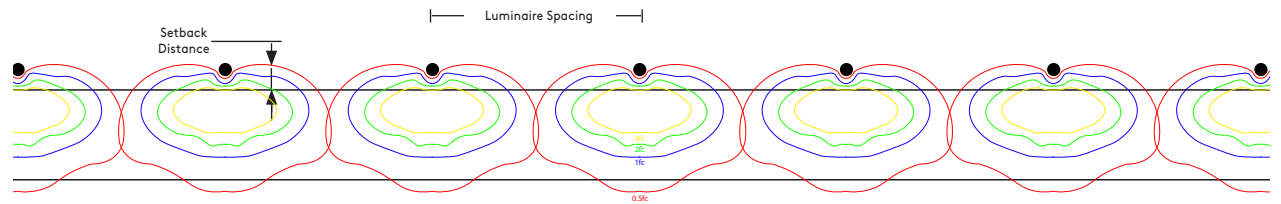
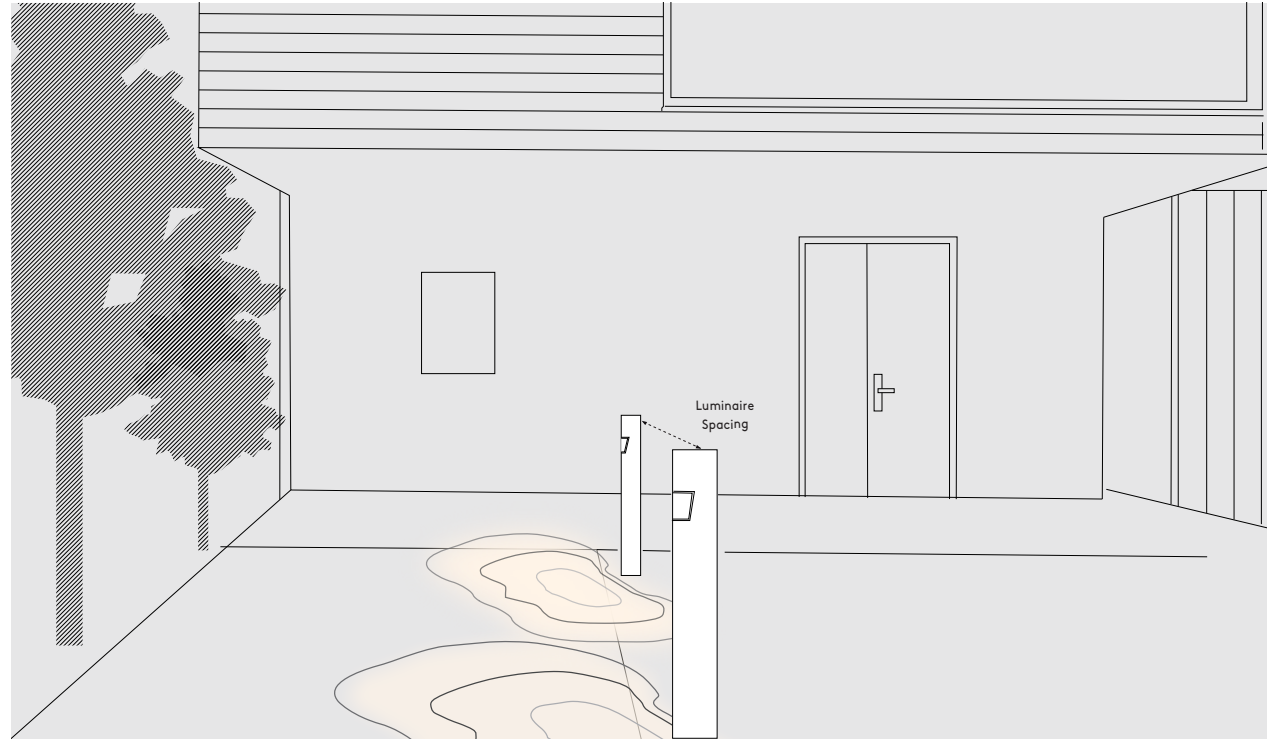
Asymmetric

* Symmetric when double light is chosen

Guidelines for Placement

When designing with the Line Bollard, it is recommended to use the provided spacing guides. This will allow for any pathway to remain consistently well lit.

The charts below analyze which light engine was used (number of cells chosen) to determine the ideal positioning of your bollard.



| Recommended Spacing Guide for Line Bollard | | | | |
|--|----------------------------|-------------------|----------------------------|-------------------|
| Light Engine | S01 | | S03 | |
| Overall Height | Setback distance from path | Luminaire Spacing | Setback distance from path | Luminaire Spacing |
| 3 ft. | 2 ft. O.C. | 15 ft. O.C. | 3 ft. O.C. | 25 ft. O.C. |
| 3.5 ft. | 2 ft. O.C. | 15 ft. O.C. | 3 ft. O.C. | 25 ft. O.C. |
| 4 ft. | 2 ft. O.C. | 15 ft. O.C. | 3 ft. O.C. | 30 ft. O.C. |

*0.90 LLF
 *Based on 30K, "AS," Configuration
 *6 ft. Wide Path

| Line Bollard Recommended Spacing Illuminance Analysis | | | | | | | | |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| Light Engine | S01 | | | | S03 | | | |
| Overall Height | AVG (fc) | MIN (fc) | AVG/ MIN | MIN/ MAX | AVG (fc) | MIN (fc) | AVG/ MIN | MIN/ MAX |
| 3 ft. | 1.38 | 0.3 | 4.6 | 19.67 | 1.35 | 0.2 | 6.75 | 38 |
| 3.5 ft. | 1.59 | 0.3 | 5.3 | 20 | 1.69 | 0.2 | 8.45 | 43.5 |
| 4 ft. | 1.28 | 0.2 | 6.4 | 29 | 1.87 | 0.2 | 9.35 | 48 |

*0.90 LLF
 *Based on 30K, "AS," Configuration
 *6 ft. Wide Path



L I N E
B L A C K



The Line Black optics

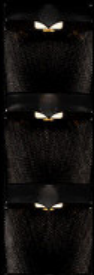
Line Black builds on the foundation of the original Line product. The evolution is a slim column family with less than 0.5% uplight meeting DarkSky requirements. Through a change in the finish of reflective surfaces the optical space becomes more quiet and produces less uplight.



Line Black optics for natural habitats

With black optics and warm CCT options you can create lighting designs that are more responsible in regard to environmentally sensitive areas. Spaces near observatories, forests, beaches, and Dark Sky Certified communities/parks are the target applications for Line Black.

The Line Black optics

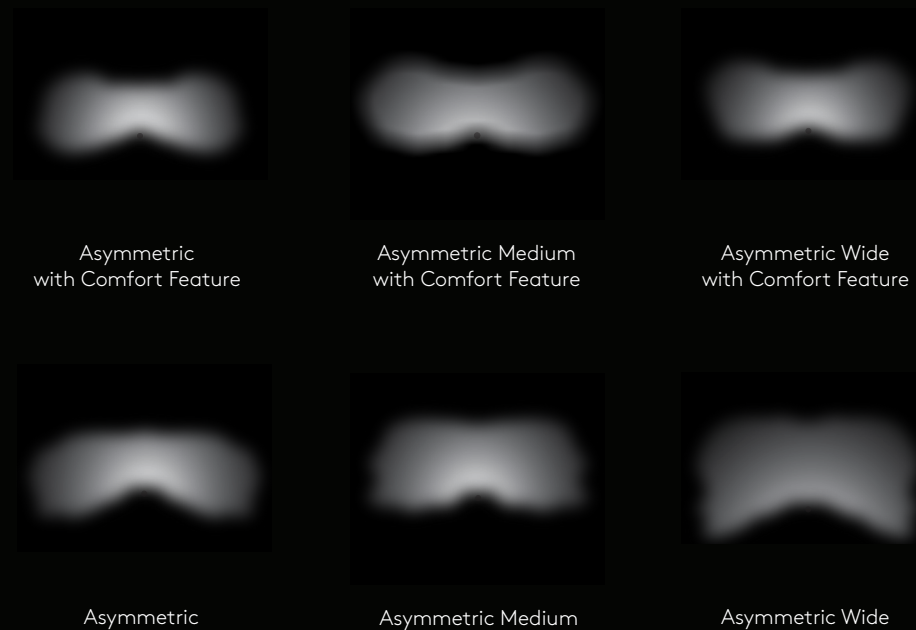


Line Black

Protect the night sky and natural rhythms

The precision optics in a black finish prevent light pollution and illuminate residential spaces with respect to nature. This modern column that has less than 0.5% uplight to protect the night sky and a wide distribution for increased spacing.

Standard Line Black Column Distributions

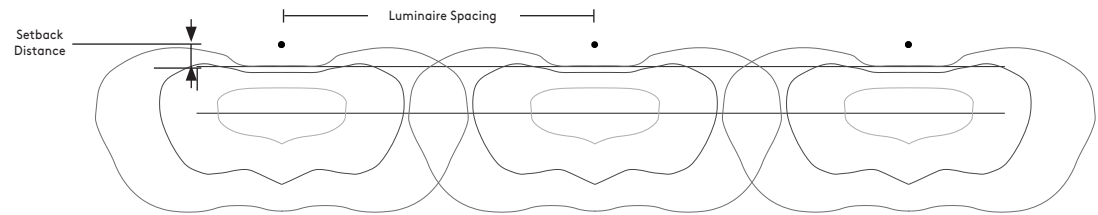


* Symmetric when double light is chosen

Guidelines for Placement

When planning with Line Black, it is recommended to layout your fixtures at the recommended spacing provided. This will ensure your pathway remains well-lit, while being environmentally consciencious.

The charts below analyze which light engine was used (number of cells chosed) to determine the ideal positioning of your light column.



| Recommended Spacing Guide for Line Black | | | | | | |
|--|----------------------------|-------------------|----------------------------|-------------------|----------------------------|-------------------|
| Light Engine | S03 | | S06 | | S12 | |
| | Setback distance from path | Luminaire Spacing | Setback distance from path | Luminaire Spacing | Setback distance from path | Luminaire Spacing |
| Comfort Feature (CF) | 3.5 ft. O.C. | 20 ft. O.C. | 3 ft. O.C. | 30 ft. O.C. | 3.5 ft. O.C. | 50 ft. O.C. |
| Reflectors Only | 3.5 ft. O.C. | 20 ft. O.C. | 3 ft. O.C. | 30 ft. O.C. | 3.5 ft. O.C. | 50 ft. O.C. |

*0.90 LLF
 *Based on 30K, "AW", 14 ft. Column
 *6 ft. Wide Path

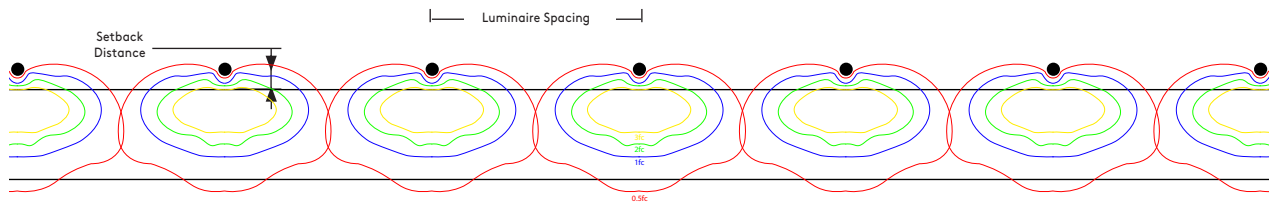
| Line Black Column Recommended Spacing Illuminance Analysis | | | | | | | | | | | | |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Light Engine | S03 | | | | S06 | | | | S12 | | | |
| | AVG (fc) | MIN (fc) | AVG/ MIN | MIN/ MAX | AVG (fc) | MIN (fc) | AVG/ MIN | MIN/ MAX | AVG (fc) | MIN (fc) | AVG/ MIN | MIN/ MAX |
| Comfort Feature (CF) | 1.69 | 1.3 | 1.3 | 1.62 | 2.2 | 1.2 | 1.83 | 2.33 | 2.4 | 1.1 | 2.18 | 4 |
| Reflectors Only | 1.45 | 1 | 1.45 | 1.7 | 1.87 | 1.1 | 1.7 | 2.27 | 2.4 | 1.1 | 2.18 | 4 |

*0.90 LLF
 *Based on 30K, "AW", 14 ft. Column
 *6 ft. Wide Path

Guidelines for Placement

When thinking about protecting the night sky while lighting a pathway, use the recommended spacing provided. This will ensure your pathway remains well-lit, while being environmentally conscientious.

The Line Black Bollard charts below analyze which light engine was used (number of cells closed) to determine the ideal positioning of your light bollard.



| Recommended Spacing Guide for Line Black Bollard | | | | |
|--|----------------------------|-------------------|----------------------------|-------------------|
| Light Engine | S01 | | S03 | |
| Overall Height | Setback distance from path | Luminaire Spacing | Setback distance from path | Luminaire Spacing |
| 3 ft. | 1 ft. O.C. | 15 ft. O.C. | 1.5 ft. O.C. | 20 ft. O.C. |
| 3.5 ft. | 1 ft. O.C. | 15 ft. O.C. | 2 ft. O.C. | 20 ft. O.C. |
| 4 ft. | 1 ft. O.C. | 15 ft. O.C. | 3 ft. O.C. | 20 ft. O.C. |

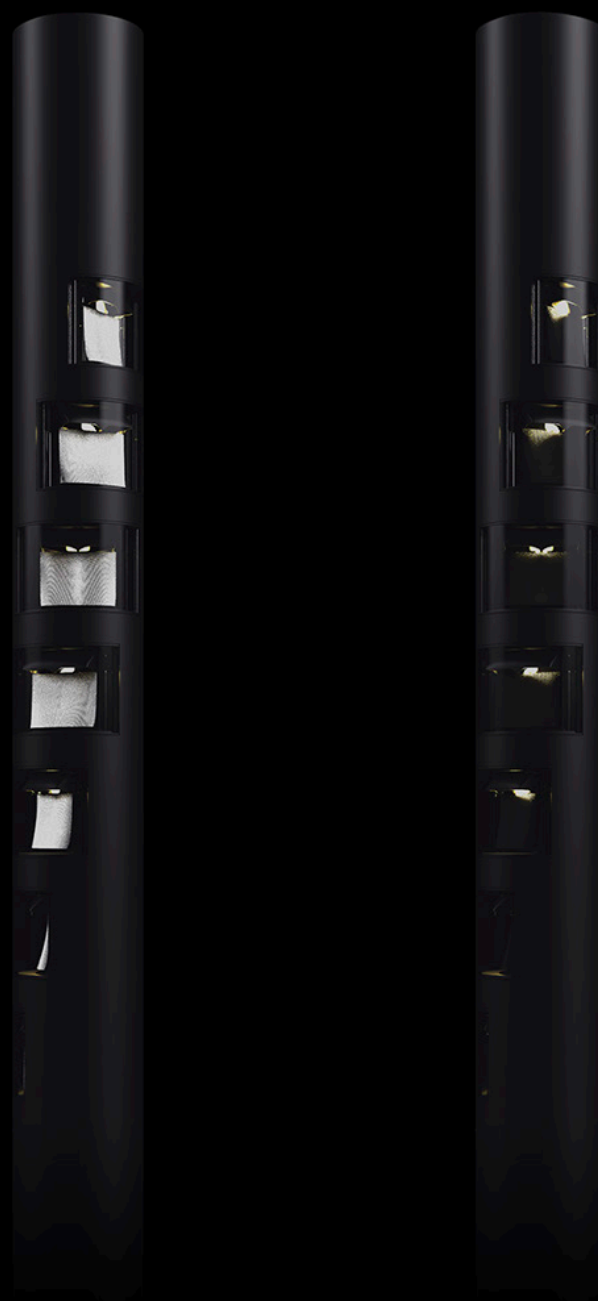
*0.90 LLF
 *Based on 30K, "AS," Configuration
 *6 ft Wide Path

| Line Black Bollard Recommended Spacing Illuminance Analysis | | | | | | | | |
|---|----------|----------|---------|---------|----------|----------|---------|---------|
| Light Engine | S01 | | | | S03 | | | |
| Overall Height | AVG (fc) | MIN (fc) | AVG/MIN | MIN/MAX | AVG (fc) | MIN (fc) | AVG/MIN | MIN/MAX |
| 3 ft. | 1.68 | 0.2 | 8.4 | 36.5 | 2.68 | 0.2 | 13.4 | 87.5 |
| 3.5 ft. | 1.7 | 0.3 | 5.67 | 18.67 | 2.35 | 0.2 | 11.75 | 64.5 |
| 4 ft. | 1.3 | 0.2 | 6.5 | 22 | 1.7 | 0.2 | 8.5 | 36 |

*0.90 LLF
 *Based on 30K, "AS," Configuration
 *6 ft Wide Path

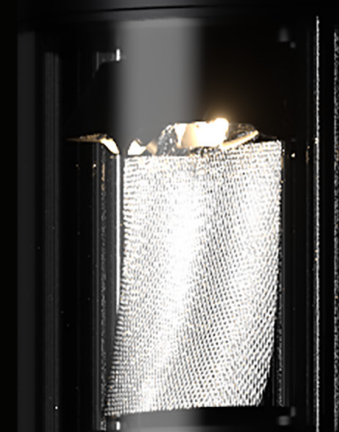


L I N E
T W I S T



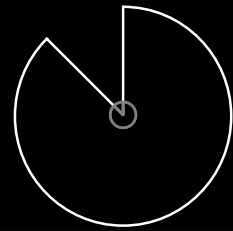
The Line Twist optics

Line Twist is a creative light column that portrays a delicate look and creates a chic environment. It offers a choice of two light settings: 6 Cell and 12 Cell. 6 Cell spirals around half the column and will provide asymmetric light and 12 Cell spirals all around the column and will provide a symmetric light distribution. Use the 6 Cell when you only want a full range of light on the pathway and use 12 Cell to light all around the column.

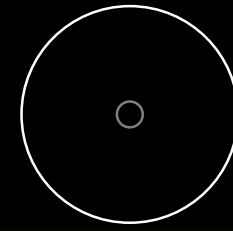


Line Twist

When you need all around
circular lighting



6 Cell



12 Cell



6 Cells
for asymmetric lighting

12 Cells
for symmetric lighting



Guidelines for Placement

With Line Twist, you can always count on getting the light where you want it with fewer fixtures. It is always best to use the recommended spacing provided when designing with Line Twist.



| Recommended Spacing Guide Line Black | | | | | | |
|--------------------------------------|----------------------------|-------------------|----------------------------|-------------------|----------------------------|-------------------|
| Light Engine | S03 | | S06 | | S12 | |
| | Setback distance from path | Luminaire Spacing | Setback distance from path | Luminaire Spacing | Setback distance from path | Luminaire Spacing |
| Comfort Feature (CF) | 3.5 ft. O.C. | 20 ft. O.C. | 3 ft. O.C. | 30 ft. O.C. | 3.5 ft. O.C. | 50 ft. O.C. |
| No Shielding | 3.5 ft. O.C. | 20 ft. O.C. | 3 ft. O.C. | 30 ft. O.C. | 3.5 ft. O.C. | 50 ft. O.C. |

*0.90 LLF
 *Based on 30K, "AW," 14 ft. Column
 *6 ft. Wide Path

| Line Black Column Recommended Spacing Illuminance Analysis | | | | | | | | | | | | |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Light Engine | S03 | | | | S06 | | | | S12 | | | |
| | AVG (fc) | MIN (fc) | AVG/ MIN | MIN/ MAX | AVG (fc) | MIN (fc) | AVG/ MIN | MIN/ MAX | AVG (fc) | MIN (fc) | AVG/ MIN | MIN/ MAX |
| Comfort Feature (CF) | 1.69 | 1.3 | 1.3 | 1.62 | 2.2 | 1.2 | 1.83 | 2.33 | 2.4 | 1.1 | 2.18 | 4 |
| No Shielding | 1.45 | 1 | 1.45 | 1.7 | 1.87 | 1.1 | 1.7 | 2.27 | 2.4 | 1.1 | 2.18 | 4 |

*0.90 LLF
 *Based on 30K, "AW," 14 ft. Column
 *6 ft. Wide Path



Line Twist

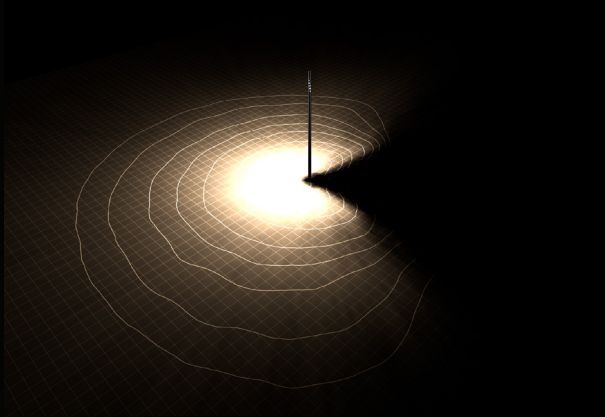
Choice of Right or Left Twist





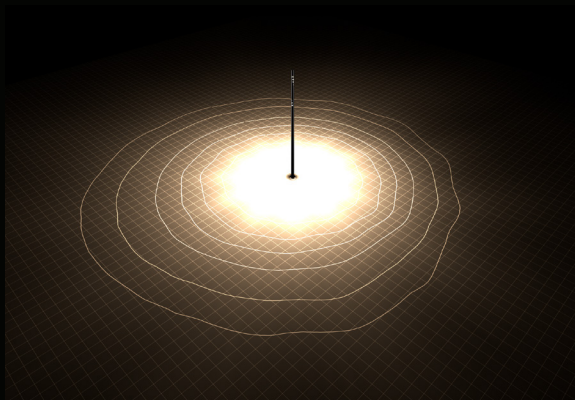
Line Black Twist for all
around darkness

A deep black night sky with twinkling stars is much more than just the perfect background to decorate your pathway with light. The night sky is important as well as the well-being of people, animals, and plants. Line Black Twist with Dark optics protects the night sky from scattered light and illuminates urban spaces in harmony with nature.



Asymmetric

Line Twist 6 Cell covers asymmetric



Symmetric

Line Twist 12 Cell covers symmetric

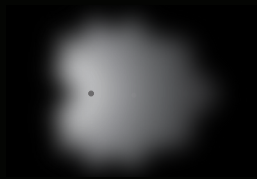
Line Twist

Maximizing coverage and adding visual interest

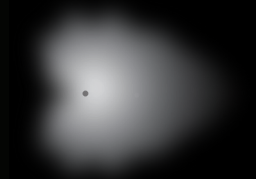
The circular arrangement of the lights in Line Twist opens up new design possibilities for the Line family. A choice of six or twelve modules are integrated into the mast in a harmonious spiral,

creating profound simplicity with a twist. The result is a sleek slim light that fits perfectly into its surroundings and contributing to a calm and clear cityscape.

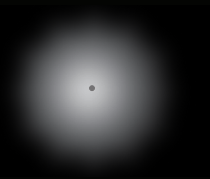
Standard Line Twist Column Distributions



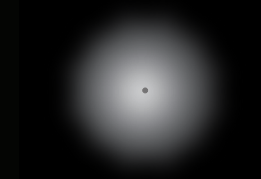
6 Cell
Asymmetric



6 Cell
Asymmetric
with Comfort Feature

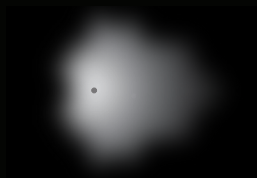


12 Cell
Symmetric

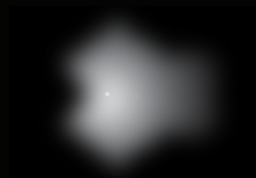


12 Cell
Symmetric
with Comfort Feature

Standard Line Black Twist Column Distributions



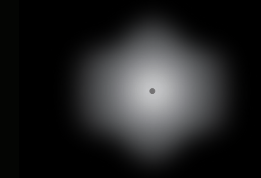
6 Cell
Asymmetric



6 Cell
Asymmetric
with Comfort Feature



12 Cell
Symmetric

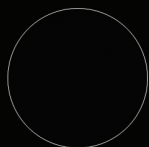


12 Cell
Symmetric
with Comfort Feature

Selux Metal Finishes



White



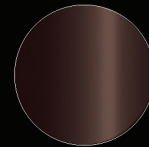
Semi-Matte
Black



Black



Silver



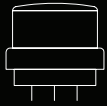
Bronze



Custom
RAL



The Line options



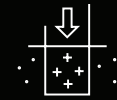
Photocell

The twist-lock photocell conserves energy and improves safety and security by automatically turning lights on when it gets dark. It also saves on energy by turning off at dawn when extra light is unnecessary.



Comfort Feature

The comfort feature option places a small optic attachment over LED groups which refracts and adds some diffusion to soften the appearance of the light engine at night.



Direct Burial Base / Embedded Base

Direct Burial or Embedded Base options provide the cleanest installed look. The column goes below grade to allow for mounting to a buried concrete foundation (EB) or to be installed directly into the ground (DB).



GFCI

The outdoor GFCI receptacle is intended for portable tools and equipment when attended by personnel. The GFCI duplex receptacle is weatherproof with its self-closing cover - for use with or without padlock.



USB & Duplex Receptacle

The outdoor GFCI receptacle with USB charging port is intended for portable tools and equipment when attended by personnel. The USB charging port allows convenient charging of smart phones or other low voltage electronics.



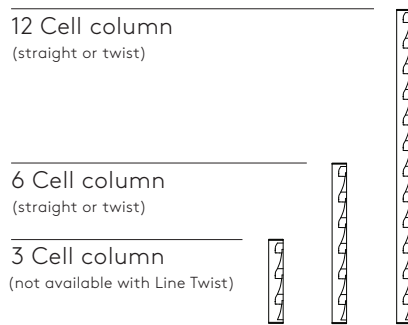
Motion Sensor

Allowing the light to be controlled by a motion sensor cuts down on the amount of wasted electricity. With motion sensor, the lights will only be on when someone is using the area. This makes sound economic sense, and is more environmentally friendly.

Design Options

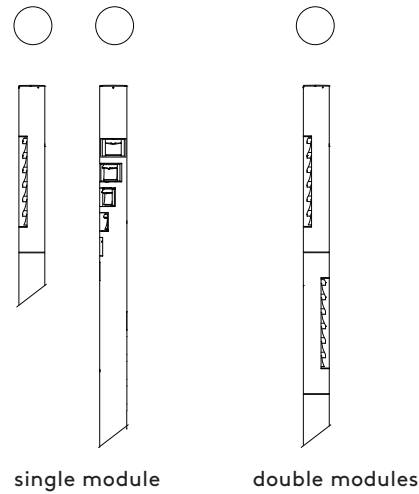
Column

1. Pick your style: Line or Line Twist, then choose light modules in Silver or Black



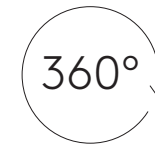
2. Choose single or double

Line and Line Black available single or double modules.
Line Twist available in single module only.



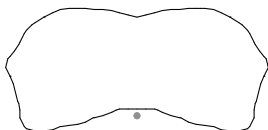
3. Design your roadway / pathway project

Line Column and Line Black Column modules have 360° in-field adjustability. Line Twist modules are already positioned to twist left or right around column.



*Line Twist 6 Cell has an asymmetric distribution

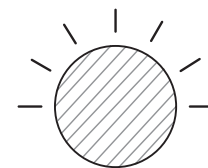
4. Choose your light distribution.
(See IES files online for details)



5. Choose your finish.
(See page 36 for details)



6. Choose your options.
(comfort feature, motion sensor, etc.)



Line

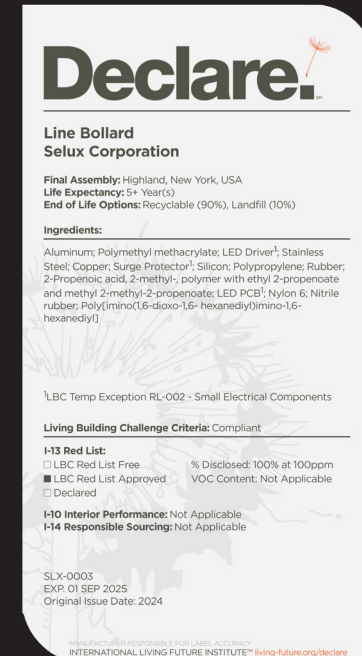
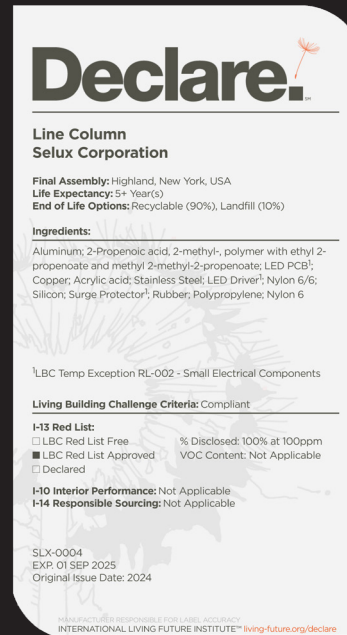
Declare label for our exterior luminaire

Declare is a platform to share and find healthy building products. Manufacturers willingly disclose product information that can be found on the Declare labels. These labels are then accessible on a free and searchable database used by prominent designers, real estate owners and home owners, to specify products they know they can trust and that meet the requirements of leading green building standards, including Core Green Building, LBC, LEED, and WELL Certification.

Declare has positively changed the materials marketplace to enable the creation of buildings that support human and environmental health and has made it extremely easy to facilitate and simplify the exchange of information.

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