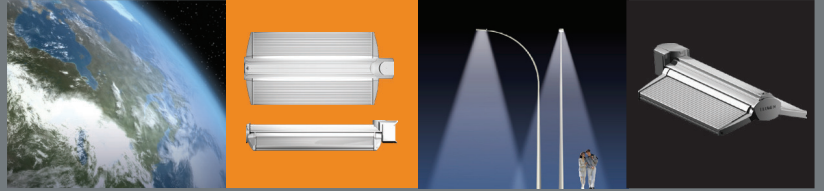## elumen
### LIGHTING NETWORKS

# LED  Street and Area lights

## Benefits

- •Very High ambient  85C
- • Energy savings from 50 to 73%.
- • Long Life.
- • Adjustable light beam.
- • No Lumen Depreciation
- • Reduced light pollution.
- • Option to run at half intensity during low traffic hours.
- • Greater resistance to shock and vibrations.
- • Cold start.
- • No audible noise.
- • Constant light intensity throughout  temperature range and life.
- • Low glare.
- • Tool less replacement of LED drive and LED arrays

- • Optional:
  Remote control of light intensity

### High Energy Savings
The Elumen streetlights consume from 50 to 73% less electricity than traditional lamps. This energy conservation is directly related to Light Emitting Diodes technology advancement combined to the innovative way Elumen uses its patent pending LightSpread technology and its high efficiency OptiAC ™ LED drive.  Additional savings are generated with the use of our optional automatic mid-night dimming feature.

### Reduced Light Pollution
Thanks to Elumen's Lightspread technology, nearly all of the generated light is uniformly distributed over the target area. Light intensity is uniform throughout the field of illumination to a distance of 3 times the height of the lamp,  reducing the bright spot typically found under traditional streetlights.

### No Lumen Dep   reciation
The completely sealed casing of the Elumen Streetlight minimizes light depreciation from dust and pollution. Moreover, the aging compensation algorithm  of the OptiAC ™ LED drive ensures a uniform photometric output during the life of the product. (LLF=0.95)  No need for overlighting  at installation to reach the minimal illumination required in the lifespan of the light .

In street lighting applications, uniformity is more important than absolute intensity. Elumen applies this principle with its lightspread technology, an innovation in regards to light distribution.

### Lightspread
TECHNOLOGY
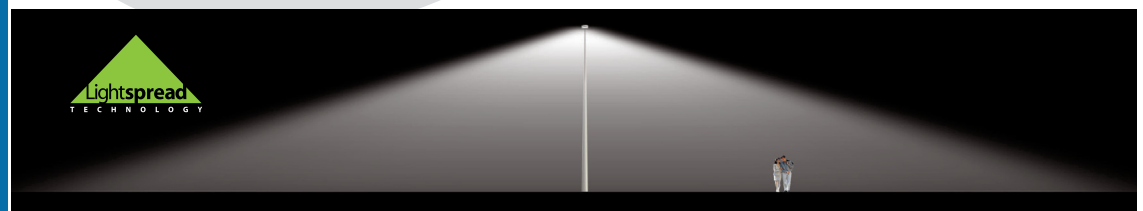
Elumen Lighting Networks

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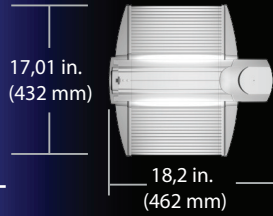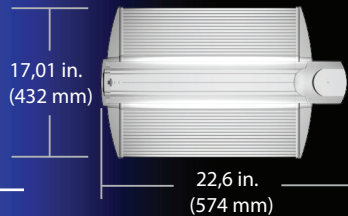evolution • efficiency • energy • economy • environment

# Technical Data

## Models

**LED SL 33W, 50W, 66W, 80W**
Weight: 13.3 lbs (6,0 kg)
EPA: 0.8 sq. ft.

17,01 in. (432 mm)
18,2 in. (462 mm)

**LED SL 100W, 125W, 160W**
Weight: 16.5 lbs (7,5 kg)
EPA: 1.05 sq. ft.

17,01 in. (432 mm)
22,6 in. (574 mm)

**LED SL 170W, 200W, 250W, 325W**
Weight: 19.7 lbs (8,9 kg)
EPA: 1.3 sq. ft.

29,1in. ( 739 mm)

7,1 in. (180 mm)
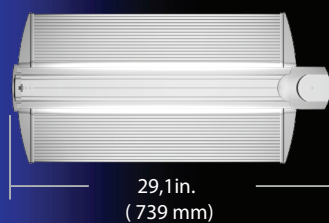
The Elumen SL Streetlights are adjustable. Six beam widths are used to precisely adjust light distribution.

CSA C US 243852

Lightspread TECHNOLOGY ™

| Mechanical | |
|---|---|
| Tenon | 1.5" to 2 3/8" dia. (38mm to 59mm) |
| | ±5 degrees adjustment |
| Lens | Acrylic |
| Casing | Aluminium powder coated |
| Seal | IP 66 |
| Operating Temperature | -45 °C to 85 °C |
| Audible noise | 0 db |
| CRI, CCT | 70, 5000°K |
| Vibrations | ANSI C136.31-2001 for bridges |

| Electrical | |
|---|---|
| Voltage | 85 to 300 Vac, 50 to 60 Hz |
| | 347 Vac, 480Vac 50 to 60 Hz |
| Power Factor | 0.96 to 0.99 |
| Transients | EN 61000-4-5. |
| EMI/ESD/Immunity | EN 61000-4-2. |

| Regulatory Agency | |
|---|---|
| Canada US | CSA C22.2 No. 250.0-08, UL1598 for wet areas |
| RoHS | Yes |

| | 33W | 50W | 66W | 80W | 100W | 125W | 160W | 170W | 200W | 250W | 325W |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Delivered Lumens (0 degrees adjustment) | 3 800 | 5 700 | 6 800 | 7 586 | 10 200 | 11 900 | 15 100 | 16 830 | 18 925 | 22 416 | 31200 |
| Initial Consumption at 25°C * | 35W | 55W | 68W | 80W | 105W | 130W | 165W | 170W | 205W | 250W | 315W |
| Life – Zero Lumen Depreciation | 21 years ||||||||||

\* Consumption reduces 2% for every 10°C of temperature decrease.
  Power will gradually increase up to 10% to compensate for LED aging.

## Light Distribution LED    SL-100W    -Mounting Height 25' (7,62m) - Footcandles
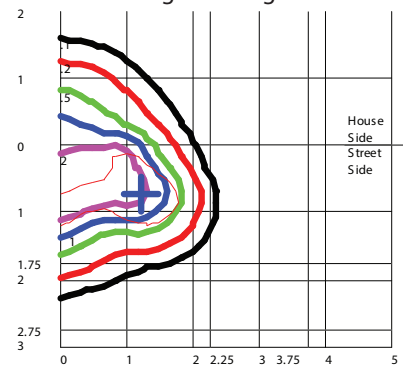
### Widest Beam - Wings at 22.5 deg.



House Side / Street Side
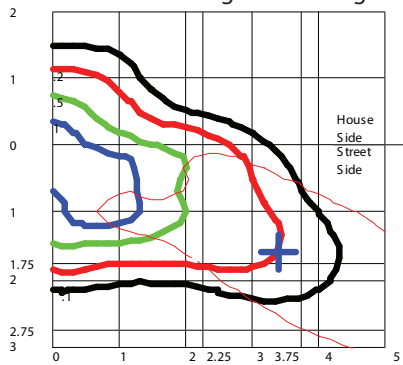
### Middle Beam - Wings at 13.5 deg.



House Side / Street Side
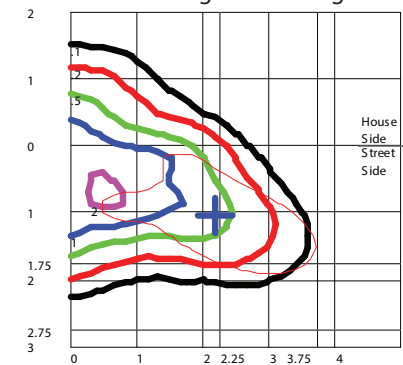
### Narrow Beam - Wings at 0 deg.



House Side / Street Side

## Ordering

| Luminaire | Serie | Color | Power | Color LED | Distribution | Mounting | Photocell Receptacle | Wing Angle | Led Driver | Option |
|---|---|---|---|---|---|---|---|---|---|---|
| LED-SL | SE | G | 100 | C | 3 | TM | N | 1 | A | M |

| Luminaire | Serie | Color | Power | Color LED | Distribution | Mounting | Photocell Receptacle | Wing Angle | Led Driver | Option |
|---|---|---|---|---|---|---|---|---|---|---|
| | SE=Elumen Streetlight WE=Elumen WalLED | G= Grey B= Bronze K= Black | 33W=33 50W=50 66W=66 80W=80 100W=100 125W=125 160W=160 200W=200 250W=250 325W=325 | C - White 5,000 K CRI>70 | 3 - Type II or III | TM - Horizontal Tenon DM - Direct Mount Square pole DR - Direct Mount Round Pole WM - WallMount KM - Knuckle Mount LB - Low Bay PM - Pendant Mount CM - Cable Mount | N = None R = Yes | 6= 22.5 ° - 7.5X MH 5= 18.0° - 7 X MH 4= 13.5° - 6 X MH 3= 9.0° - 5 X MH 2= 4.5° - 4.5 X MH 1= 0.0° - 4 X MH | A= 100W 85-300 Vac 200W 176-300 Vac B= 200 Vac - 380 Vac | M=With Midnight Dimming 50% from 11h30pm to 5h30am S= With Motion Sensor Input (50% Dimming when no motion) L= With Linear Dimming Input (30% to 100% intensity) N= No option I= Wireless Remote Control |