

# ComfortView™ Neighborhood LED Street Lights Provide Low Glare, Visually Comfortable Lighting to Small Town America



Small towns in the Northeast United States, including Cohasset, Carver, and Mattapoisett, MA, have done complete retrofits, allowing them to save on energy and maintenance costs without altering the local aesthetic.



When LED streetlights first entered the marketplace over a decade ago, cities and towns were excited to adopt a technology that would dramatically reduce their operating and energy costs. Since that time, millions of luminaires have been installed, and more importantly, experienced by the general public. Lessons learned from early installations indicated that visual comfort for residents, pedestrians, cyclists, and even motorists was often sacrificed for energy efficiency. Many first-generation installations were excessively lit, incorporated uncomfortable color temperatures, and produced excessive glare.

With these lessons learned, the New England cities of Cohasset, Carver, and Mattapoisett, MA took another route and selected Leotek ComfortView™ Street Lights. The improved quality of light not only saved them money, but has also helped maintain the historic character and charm of their towns and neighborhoods.

# Cohasset



Cohasset is a small town in Norfolk County, Massachusetts with a population of nearly 8,500 residents

The settlement in Cohasset began around 1747 when the First Parish Meetinghouse was anchored. The initial residents of the town were merchants, fishermen, and shipbuilders, since these were the thriving economic activities at that time.

The town is known for beautiful beaches, a quaint downtown with shops and restaurants, its protected harbor, and stunning views of the coast. Cohasset has a lot to offer both visitors and year-round residents. Highlights of Cohasset include a weekly Farmers Market, boating, beaches, Wompatuck State Park reservation, and the popular performance center South Shore Music Circus.

The town is bordered on the north and northeast by Massachusetts Bay. A large portion of the southwestern part of town is bordered by Wompatuck State Park.

The citizens of Cohasset selected Leotek's ComfortView with a warm, incandescent-like 3000K color temperature, and an output of 2500 and 3500 lumens. For higher mounting height applications where glare is less of a concern, Leotek's GCM luminaire was chosen. The combined estimated annual energy savings exceeded 73%.



LED Lighting should be used with the same prudence with which we use any other technology. This means that although LED lighting is an energy-efficient way to illuminate streets, it's important to direct the light only where it's needed; to make sure the emitted spectrum supports visibility, safety, and the health of humans and other living creatures; and to **limit glare for pedestrians, bicyclists, and drivers.**"

**- Department of Energy (DOE),  
Get the Facts: LED Street  
Lighting, June 21, 2016**



# Carver



Carver is a town in Plymouth County, Massachusetts with a population of nearly 11,000 residents

Carver has a total area of 40 square miles, of which 37.4 square miles, is land and 2.3 square miles, or 5.87%, is water. It is locally famous for the large number of cranberry bogs throughout the town. Carver's geography is shaped by its many small brooks, rivers and ponds including Vaughn

Pond and Bates Pond. The majority of them eventually drain into Buzzards Bay, although some in the north of town lead to Cape Cod Bay or Narragansett Bay. The town also has an abundance of pine and cedar trees, and a portion of Myles Standish State Forest takes up much of the southeast corner of town.

The citizens of Carver selected Leotek ComfortView 3000 kelvin for its warm color temperature, and its low glare made possible by its two-stage refractive optics technology. Long life is assured through Comfort View's ability to maintain over 90% of its initial light output for over 20 years.

The nearly 600 piece conversion project will yield an estimated annual energy savings of 63%



"The AMA also recommends all LED lighting should be properly shielded to minimize glare...."

- American Medical Association (AMA),  
AMA Adopts Guidance to Reduce  
Harm from High Intensity Street  
Lights (June 14, 2016)



# Mattapoisett

Mattapoisett is a town in Plymouth County, Massachusetts with an estimated population of nearly 6,000 residents.

The town of Mattapoisett was settled in 1750 and officially incorporated in 1857. Originally a part of Rochester, the area had most likely been visited by European traders and sailors. With the decline of whaling and associated shipbuilding, Mattapoisett transitioned into a popular summer vacation spot for prominent New York and Boston residents. Today, the town is largely a suburban community, with most residents commuting to jobs in greater New Bedford, Providence or Boston, or operating businesses targeting summer tourism

The city used a combination of Leotek Comfort View LED luminaires for their neighborhood streets, and for higher traffic, higher mounting height roads, Leotek Green Cobra. 3000 kelvin color temperatures were used throughout the city, and light output ranged from 2,500 lumens to 10,000 lumens. Annual energy savings is predicted at over 68%. For any situations where the city finds the need to reduce the amount of light, maintenance crews will be able to 'field-tune' the light levels up or down by making a simple connection change inside the luminaire, a unique feature of Leotek's luminaires

"The IES is aligned with the AMA in support of the proper conversion of outdoor area and roadway lighting to LED light sources to reduce energy consumption, with proper optics and shielding to reduce glare and light trespass."

**- IESNA Position Statement PS-09-17,  
June 2017**



# ComfortView™ Neighborhood LED Street Light

ComfortView™ street lights utilize a new approach to address glare for neighborhood streets. Traditional first-generation LED optical systems incorporate a single optical lens over the LED. The two-stage optical system in ComfortView™ incorporates a second refractor optic, which reduces glare and maximizes visual comfort.

To further reduce the harsh contrast between the light source and the dark sky, ComfortView™ incorporates an intermediate lower luminance “transition zone,” which directs internally reflected light back out of the luminaire.

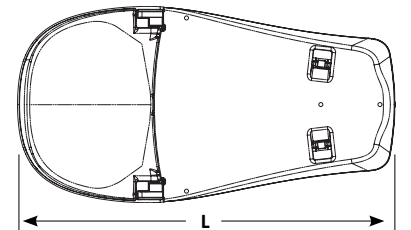
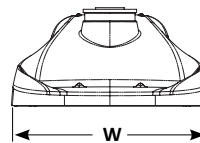
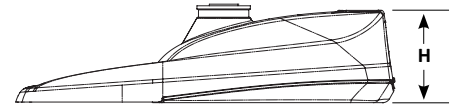
As with our other GreenCobra® LED Street Lights, ComfortView™ is built with durable high-strength materials and reliable components, and is backed by our 10-Year Warranty and 20 years of experience building LED lighting products.

## Dimensions

| Length | Width | Height |
|--------|-------|--------|
| 18.35" | 9.55" | 4.48"  |
| 466mm  | 243mm | 121mm  |

**Weight** 7 lbs [3.2 kg]

**EPA** 0.39 ft<sup>2</sup>



## Standard Finishes

**Grey**



**Dark Bronze**

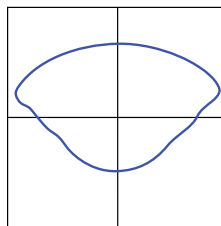


**Black**

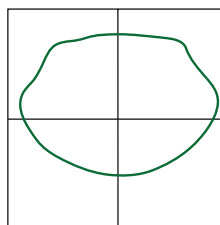


## Distribution Types

Type 2



Type 3



## Available Color Temperatures

- 2700K
- 3000K
- 4000K
- Sized for residential street applications
- Lumen packages up to 8,227 Lumens.

For complete product documentation visit: <https://leotek.com/greencobra/comfortview/>



Leotek Electronics USA LLC, located in California's Silicon Valley, is celebrating over twenty years as an LED lighting manufacturer, and is a leading supplier of LED street lights worldwide. Globally recognized as a pioneer in light-emitting diode technology, and with millions of LED products installed worldwide, the company has a historical legacy of proven performance. Leotek offers innovative LED lighting products for applications encompassing traffic, transit, street, and area lighting. Leotek street and area lighting products are assembled in the USA.

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