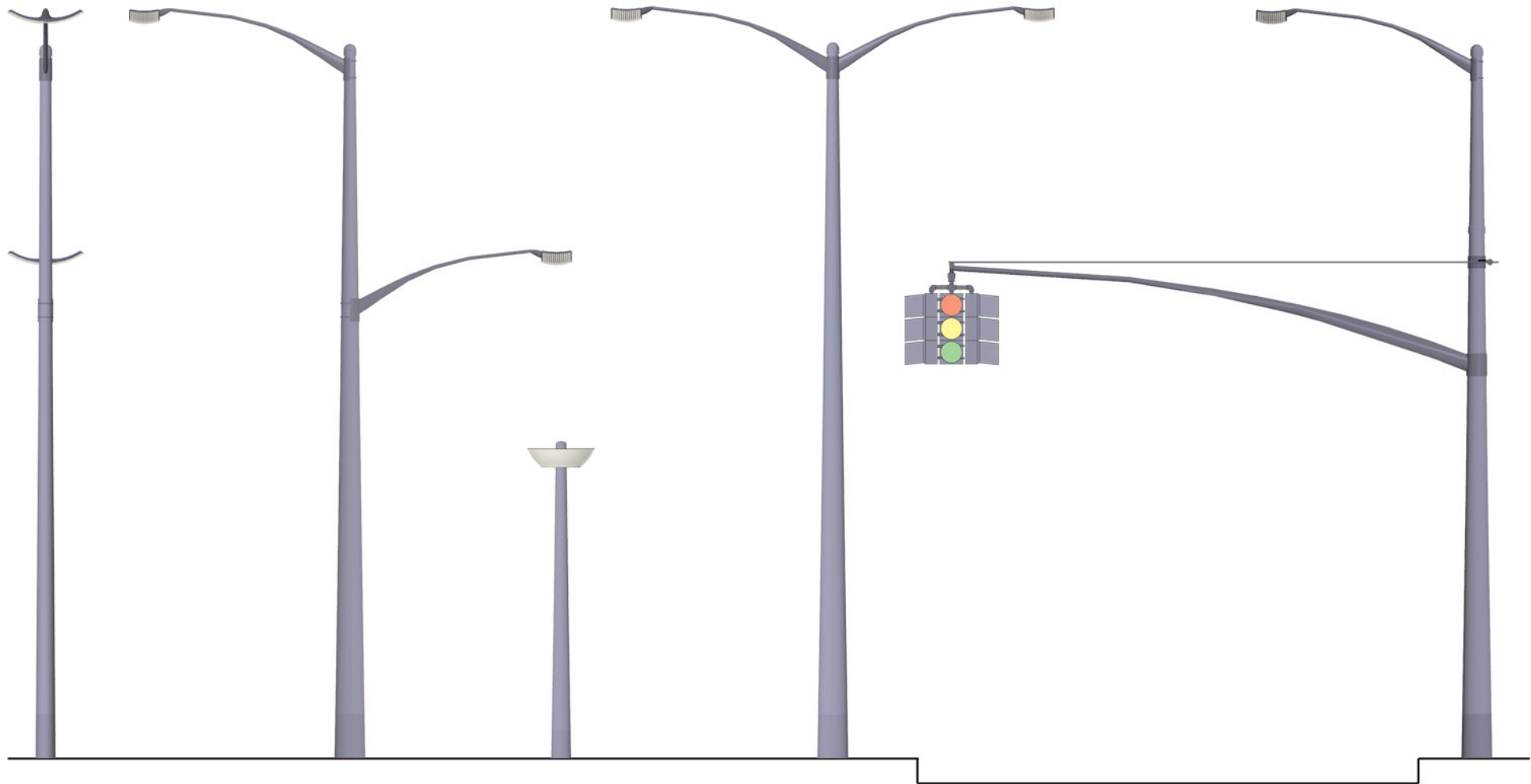


Efficient Even Elegant

Inspired by the promise of efficient, long-lasting, maintenance free and unobtrusive Light Emitting Diode technology, this design employs innovative white-light LEDs. Capitalizing on the LEDs ability to direct light more efficiently, the array design illuminates evenly a wider area and offers an opportunity to derive novel luminaire shapes.

The luminaries are mounted on an arm and pole that are shapes tapering between an ellipse and a circle and are joined using minimal moment connections.





I-STREET MODEL
CONFIGURATION 1-A

II-PARK/PEDESTRIAN
MODEL

I-STREET MODEL
CONFIGURATION 1-B1

III-TRAFFIC MODEL
CONFIGURATION 3-A

Colors
varying shades of blue-grey

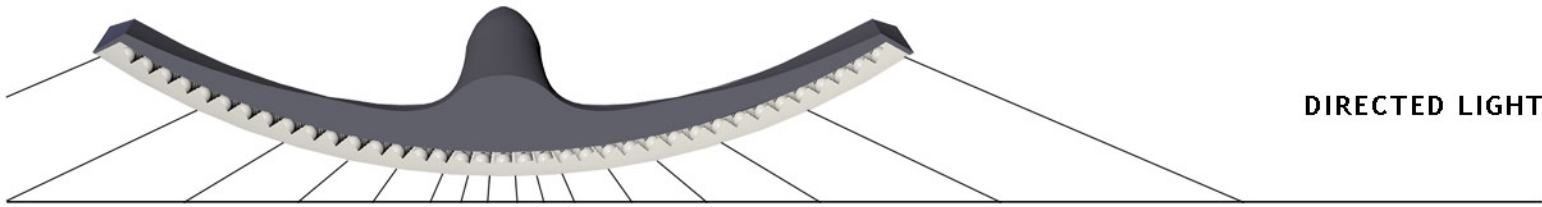
Base	Pole	Arm	Luminaire
			
R=143 G=143 B=163	R=160 G=160 B=170	R=110 G=110 B=125	R=100 G=100 B=110

Pole Shape

The shaft of the pole tapers exponentially from a 9"×14" ellipse at the base to a 5" circle at the top.

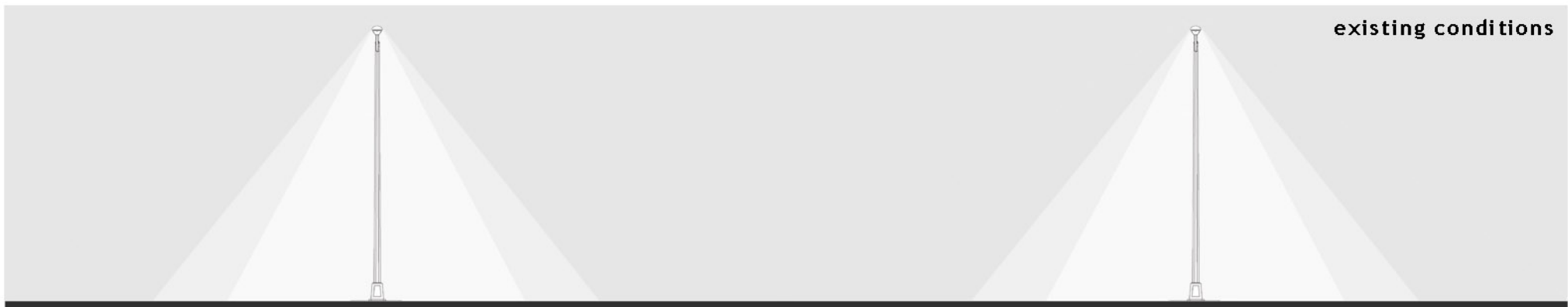
Collision protection

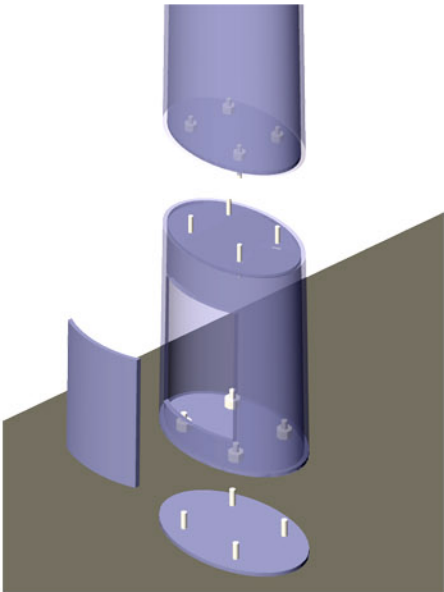
Steel upper pole sits on a pultruded composite base which is designed to absorb the energy of a vehicular collision without complete collapse of the pole minimizing damage to vehicles and danger to pedestrians in the case of collisions.



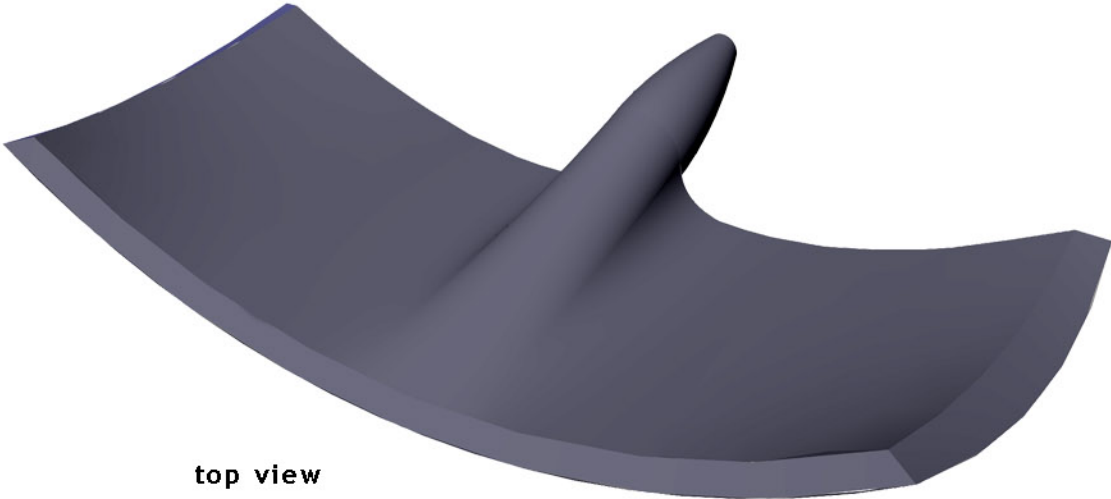
LEDs emit directed light, unlike traditional omni-directional light sources. By using individually focused LEDs on a curved array, our design increases the efficiency of the system by providing light only where it is needed and evenly illuminating the street.

Traditional luminaires either illuminate equally in all directions or the light is focused using reflectors. Because of this they create islands of light, alternating with fields of dark. LEDs eliminate these inefficiencies without increasing energy demand.





COMPOSITE BASE DETAIL



top view



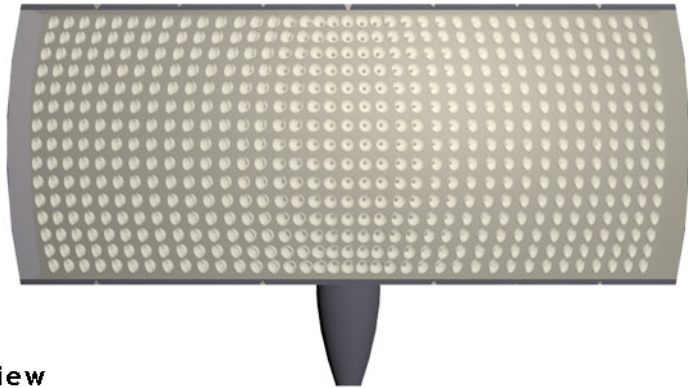
side view



plan



view



bottom view

PARK/PEDESTRIAN MODEL LUMINAIRE

STREET MODEL LUMINAIRE

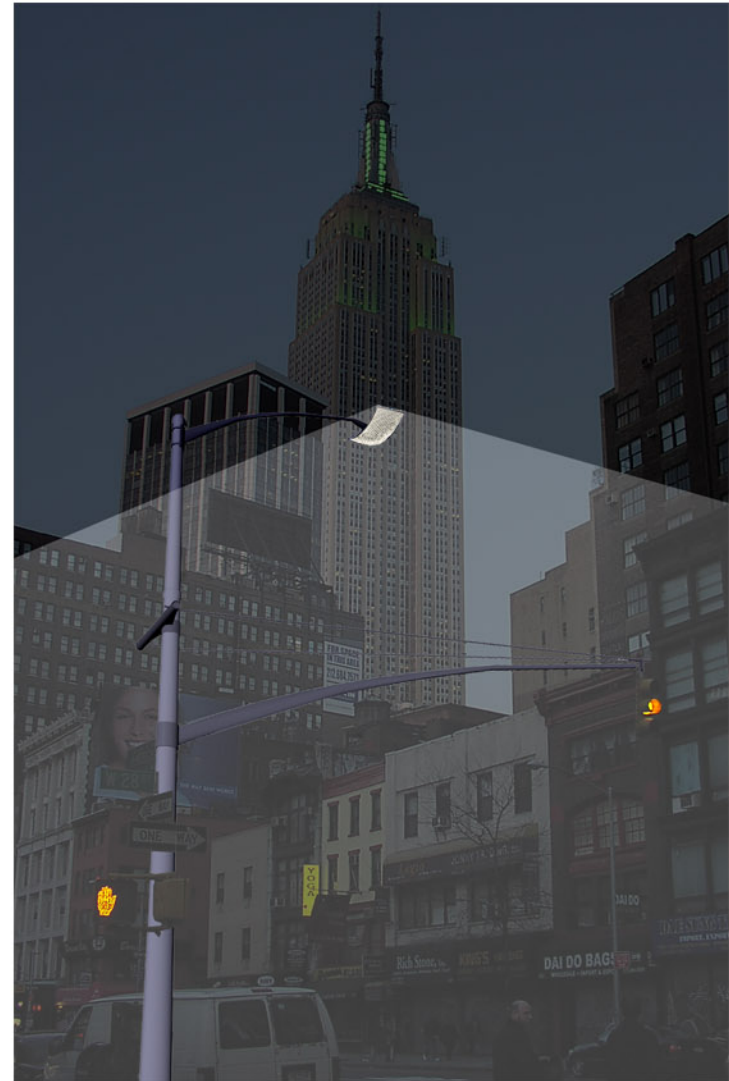


day time



night time

II-PARK/PEDESTRIAN MODEL
Madison Square Park, Manhattan

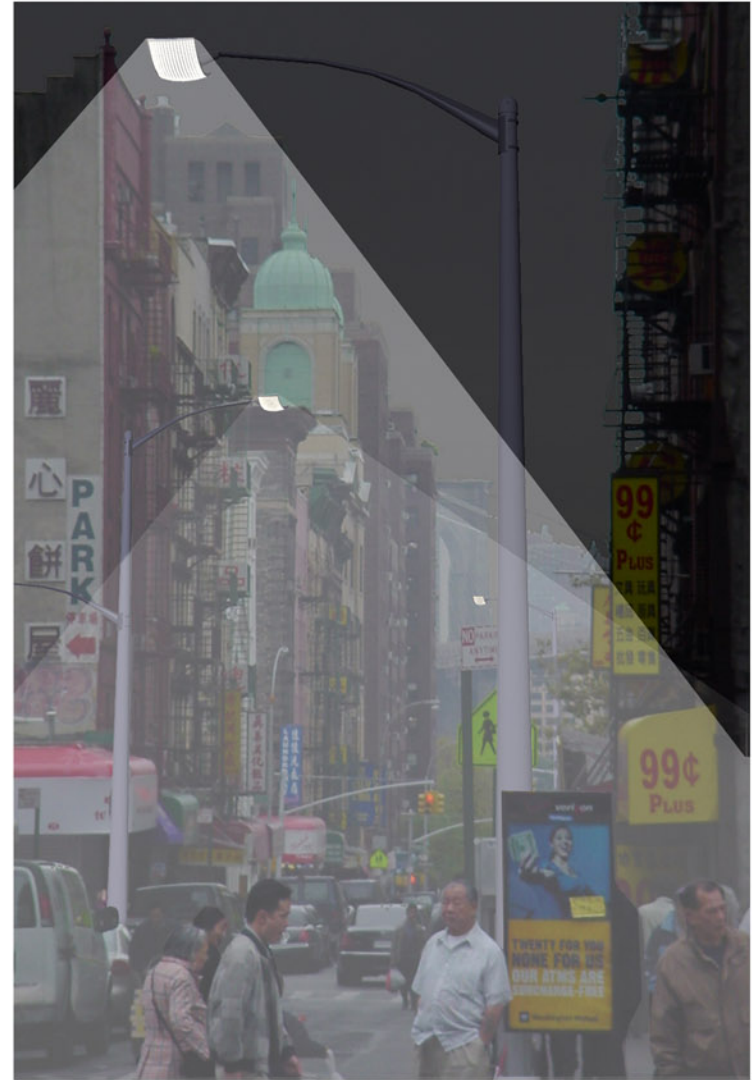


night time

III-TRAFFIC SIGNAL MODEL CONFIGURATION III-B
29th and 6th, Manhattan



day time



night time

I-STREET MODEL CONFIGURATION 1-A
China Town, Manhattan