

## TEKA Illumination's High Performance Pathlights Deliver "More" with "Less"

If you're looking for a high performance pathlight that complies with Dark-Sky regulations and does twice the work of its competition, then TEKA Illumination's Projector Series™ is the perfect choice for your next project.

The Projector Series™ Pathlights are offered in two styles:

When it comes to performance, Projector Series™ Pathlights easily outperform the competition. The Projector Series™ Patent Pending Optics utilize a **Toroidal Lens** to project light longer distances at high angles so spacing between luminaires can be maximized. This means the number of luminaires on commercial pathways can be reduced to cut costs and increase efficiency.



PPL 2546 Series  
(Low Voltage or  
Metal Halide)



PPL 4800 Series  
(Low Voltage)

As part of our commitment to providing energy-efficient lighting, TEKA Illumination supports the goals of the International Dark-Sky Association, a recognized authority on light pollution. Projector Series™ Pathlights conform to Dark-Sky standards by maintaining full shielding (allowing no light above the horizontal plane), minimizing glare, reducing overall light trespass and helping to preserve the night sky.

Additionally, Projector Series™ Pathlights are available with optional "Soft Beam" optics controls glare and conceals optics when view under shade is possible.

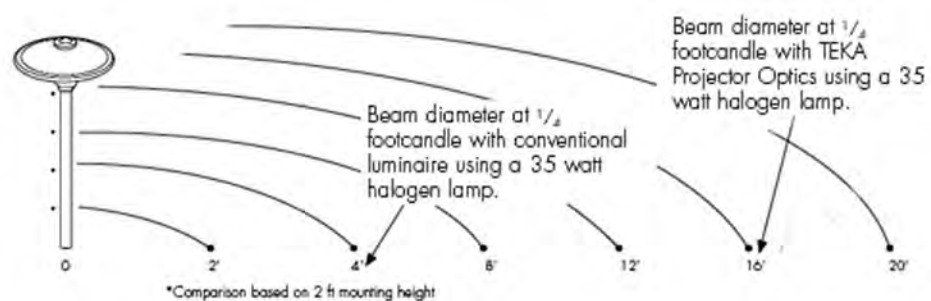
Like all TEKA Illumination products, Projector Series™ Pathlights are constructed from sustainable materials including copper, brass and cast bronze.

### Tech Spot: Toroidal Lens

In the example below, Projector Series™ Pathlights spaced on 16 foot centers produce overlapping beams that result in a 1/2 footcandle minimum. Achieving the same results with conventional optics used by other manufactures would require twice as many fixtures.

#### The Problem with Conventional Optics

You could try a diffuser, but that will only soften the beam output. Diffusers aren't designed to intensify or redirect a luminaire's light output. While Reflectors are capable of redirecting light output, they aren't as efficient or as precise as the Projector Series™ Optics with Toroidal Lens.



#### Why the Toroidal Lens Works

The idea is simple. When light from any angle hits the inside of the projector lens, the Toroidal Lens refocuses the beam out at a consistent angle. Nearly all of the lamp's power can be "projected" at a narrow, useful angle to a greater distance and with better glare control than any other optical system.