

Arieta™



Achieving the Potential of LED Area Lighting

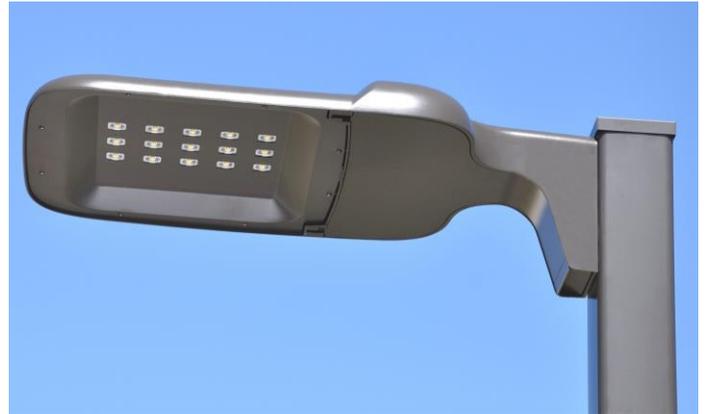


Arieta™

The Arieta™ – The Architectural, Retrofittable, Inexpensive, Energy Saving, Technology Leading, Area Luminaire - Achieving the potential of LED Area Lighting

Architectural

Many LED area luminaires on the market today are little more than HID housings that have been adapted to accept arrays of LEDs. Be-cause these housings were designed to accommodate large HID lamps, ballasts and optical systems, they are typically much larger than they need to be. The minimal profile of the Arieta™ is simply “form following function” – miniature LED arrays transitioning smoothly to a pole. This remarkably sleek form virtually disappears from view in silhouette.



Retrofittable

Unfortunately there are no “standard mounting dimensions” for area luminaires. Every manufacturer specifies their unique drilling patterns on the pole to align with the the rods or mounting bolts in their luminaire arm. This makes retrofitting another luminaire to the existing pole virtually impossible without redrilling the mounting holes and in many cases lowering the pole to the ground with a crane. Leotek surveyed the mounting hole patterns of all the major manufacturers of area luminaires and developed a unique, patent pending, mounting system designed to easily install on virtually all existing area lighting poles. **This extraordinary innovation allows a single installer in a bucket truck to easily retrofit the existing HID luminaire and install the Arieta™ in minutes without redrilling the pole.**



Step 1
Remove power door



Step 2
Install plate inside pole with top bolt



Step 3
Hang luminaire on top bolt



Step 4
Align bottom holes in luminaire and backplate with closest hole in pole, and tighten both bolts



Step 5
Install power door, feed line conductors into luminaire, and wire to terminal block.



Step 6
Close power door

Inexpensive

The Arieta™ series is surprisingly affordable – typically selling for hundreds of dollars below similar products. With the tremendous life cycle savings of energy (shown to the right) and maintenance costs, the financial “payback” is often quickly achieved.

Energy Saving

Many area luminaires in North America today still utilize inefficient, probe-start metal halide technology. In addition, much of the light produced by these older technology luminaires is “wasted” directly below the luminaire rather than filling in the dark spots between the poles. Because of the efficiency of modern LED technology and the superior control of the Arieta™ micro-lens optical systems, the light is directed precisely where it is needed to provide safe, comfortable illumination with minimal energy consumed. In many cases, this will allow a single Arieta™ to replace (2) metal halide “shoebox” luminaires.

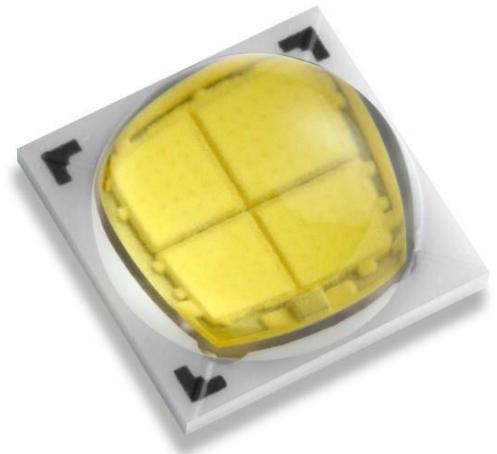
Typical Annual Energy Cost

Cost per kWh	(2) 400W MH "Shoeboxes"	(1) AR18-30M	Annual Savings
5¢	\$203.67	\$57.60	\$146.07
10¢	\$407.34	\$115.19	\$292.15
15¢	\$611.01	\$172.78	\$438.23

Based on 12 hours burning per night. Two 400W units consume an average of 930 system watts compared with 263 system watts for AR18-30M.

Technology Leading

Like most semi-conductor based products, Light Emitting Diodes experience continued improvement in output, efficiency and projected life while costs continue to decline. The Arieta™ product line uses state-of-the-art LEDs which provide many times the light output of prior generations of chips. In addition, rigorous accelerated-life, thermal testing provides assurance that these LEDs will continue to burn brightly for decades.



Area Luminaire

LED technology offers tremendous potential to redefine the traditional “Shoebox”/ Area Luminaire. The compact source size allows for a lower profile housing and a much lighter weight luminaire to facilitate retrofits. In addition, the ability to control the light output so precisely eliminates the need for “over lighting” at the base of the pole and “under lighting” between the poles while achieving remarkable savings in energy and maintenance costs. The Arieta™ is the first area luminaire that fully exploits all of these advantages. Whether for a new installation or an energy saving relighting opportunity, the Arieta™ truly is **Achieving the potential of LED Area Lighting.**

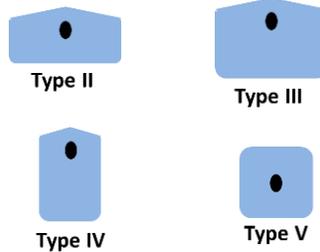


HPS fixtures were replaced with LED luminaires providing improved visibility and substantial energy savings.

The Arieta was designed to address the highly diverse site and area lighting applications. Parking lots, campuses, office complexes, streets, public parks, etc. all have their specific aesthetic and performance requirements. In addition, with the wide range of lighting criteria, existing mounting heights, pole spacings and site geometry, it is critical to offer a wide assortment of lumen packages and lighting distribution patterns.



With arrays of 6 to 30 high flux LEDs and three standard drive currents, the Arieta is suitable for replacing 100W up through (2) 400W metal halide luminaires.



To accommodate varying lighting requirements and site geometry, the Arieta™ is offered in Types 2, 3, 4, and 5 lighting distributions.



Optional round pole mounting adapter allows for easy installation on straight or tapered round poles. Additional options, accessories and finishes provide significant flexibility for the most common applications.



Dytrone • USA: PO Box 19882, Denver, CO 80219 (209) 604-0039
• AFRICA: Haile Selassie Ave., PO Box 74165, Nairobi, Kenya +1 254 720 829302
info@dytrone.com • www.dytrone.com

