

Specifier Bulletin

for Dark Sky Applications

VOLUME 1: ISSUE : 2 2008 — [International Dark-Sky Association](#)



Post Top




Arm Mount



Wall Sconce



Bollard



For more information on the Aria and other FSA approved luminaires please visit the IDA Web site www.darksky.org



ITALIAN FOR “AIR” a musical Aria refers to an expressive melody; a blending of diverse sounds to create an elaborate piece utilizing a single voice. Visionaire Lighting mirrors such melodic excellence with visual inspiration in its ARIA family of products; a sole lighting “voice” able to bring a diverse blend of architectural shapes, optical systems, superior mechanical function, environmental consideration and varied lighting sources into one harmonious fixture.

Combining optics, beauty, and environmental sensibility, the ARIA series features a complete range of light source options including HID, LED, Induction and Fluorescent; making the ARIA one of the most versatile and environmentally friendly fixture families to date. The series features a die-case aluminum fixture housing with a hinged door frame and tool-less access for effortless maintenance. Available in both low-profile horizontal lamp and dome top vertical lamp models, the ARIA provides a complete family of arm mount, post top, bollard and wall sconce products to create the perfect harmony for any outdoor architectural lighting project. These fixtures offer a tasteful, varied, and efficient selection for street lighting, shopping centers, office buildings, campuses, pedestrian area lighting, and more.

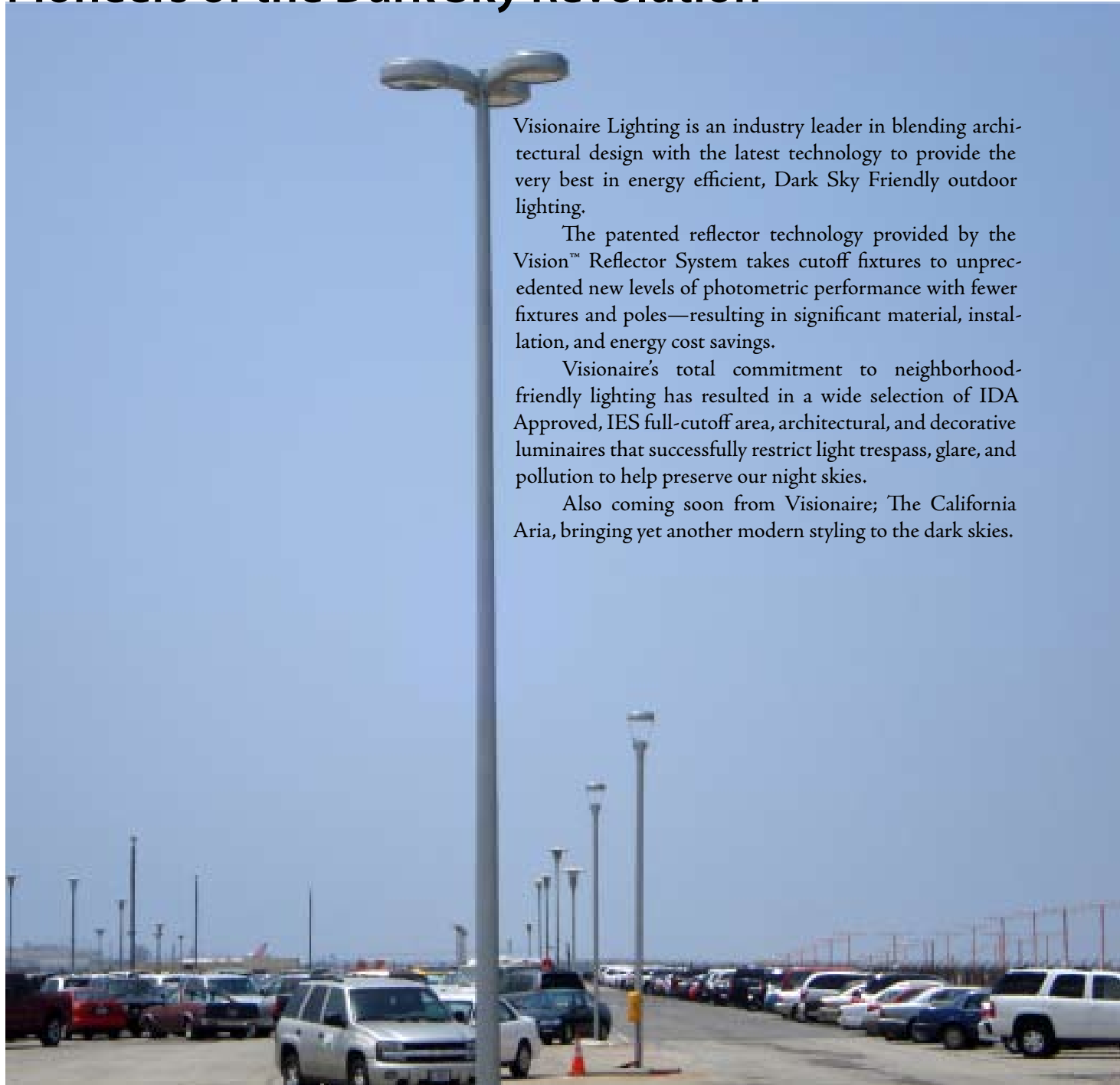
Continuing the theme of harmony, the ARIA is created with the environment in mind. Visionaire embraces the dark sky commitment to site lighting design. As such, each ARIA fixture features an IDA approved full-cutoff optical system which will

Area Lighting

optimally protect the night sky. The ARIA photometry can help meet any local spill light ordinance, ensuring that light will not intrude across property boundaries. The patented Vision™ Reflector System provides for more illumination with fewer poles, allowing building owners to benefit through lower initial construction costs and reduced overall energy costs. Overall, light trespass, glare, light pollution, and wattage control are easily managed when specifying the ARIA family of products.



Pioneers of the Dark Sky Revolution



Visionaire Lighting is an industry leader in blending architectural design with the latest technology to provide the very best in energy efficient, Dark Sky Friendly outdoor lighting.

The patented reflector technology provided by the Vision™ Reflector System takes cutoff fixtures to unprecedented new levels of photometric performance with fewer fixtures and poles—resulting in significant material, installation, and energy cost savings.

Visionaire's total commitment to neighborhood-friendly lighting has resulted in a wide selection of IDA Approved, IES full-cutoff area, architectural, and decorative luminaires that successfully restrict light trespass, glare, and pollution to help preserve our night skies.

Also coming soon from Visionaire; The California Aria, bringing yet another modern styling to the dark skies.



LED



LED lamp sources are offered in all of the Aria family of light fixtures. With 95% efficiency, this LED lamp package is the best available in the industry. The LED reflector systems are currently available in Type 5 and Type 3 distribution patterns. The wall sconce (ARS) and bollard (ARB) are ideal choices for LED lamp sources. In addition to these applications, the Aria LED is intended for roadway, walkway, parking lot, and façade lighting applications. Aria LED systems are available up to 125 watts.

Induction



Visionaire is pleased to incorporate both "Icetron" from Sylvania and the latest Philips "Induction" extended lamp life technologies into the new Aria series. Visionaire has designed special optical systems to maximize their light output for roadway and general lighting applications. Induction systems offer up to ten years of lamp life, high lumen maintenance, and excellent color rendition. Philips Induction lamps are offered in 55, 85 and 165 watts. Sylvania Icetron lamps are offered in 70, 100 and 150 watts.

Visionaire—Saves the Day

How Specifying Aria Can Make All The Difference!

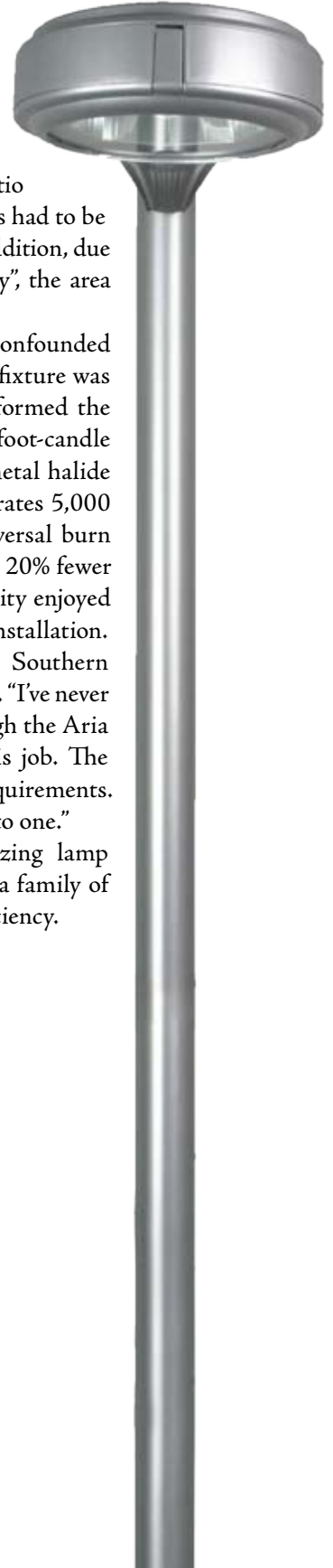
VISIONAIRE, THE LEADERS in maximizing lamp efficiency in site lighting luminaires, have proven themselves once again as the source for photometric solutions. An engineering/logistical challenge recently presented itself in Semi Valley, CA. Local lighting code called for a 7:1 max to min ratio and 1 foot-candle minimum across the site. Light poles had to be placed 15' from any trees located on the property. In addition, due to the community's interest being "Dark Sky Friendly", the area had a reputation for "red tagging" non-flat lens jobs.

The all new Aria series came to the rescue of the confounded engineers. The ultra sleek ARI-1 175m vertical lamp fixture was selected, and its light-efficient design clearly outperformed the competing horizontal lamp fixture by providing foot-candle levels twice as high (between poles)! The 175 watt metal halide lamp also provides 23% more lumen output and operates 5,000 hours longer than the horizontally mounted or universal burn equivalents. By using the Aria series, the site required 20% fewer poles to meet the strict local lighting codes; and the city enjoyed lower initial costs in terms of product purchase thus installation.

"This job was very problematic," stated Southern California—based Visionaire Rep Mark Marincovich. "I've never seen so many specifications for a job. In the end though the Aria was really the only fixture that could have done this job. The competition didn't even come close to meeting the requirements. When you compared the two we beat their levels two to one."

Visionaire Lighting is the leader in maximizing lamp efficiency in site lighting luminaries. The all new Aria family of products creates a balance between ambiance and efficiency.

See the Aria in action yourself! Visit:
<http://www.visionairelighting.com/aria>



Simple Area Lighting Recommendations



Photograph by International Dark-Sky Association

THE FIRST, AND simplest, step is to use only fully shielded fixtures. They do not allow light to escape upward, but direct it downward to illuminate the target. With sufficient shielding and optical control, the glare from such sources can be greatly reduced and permit a lower wattage lamp to achieve the same level of illumination. Cost and energy savings are also realized. The U.S. alone wastes more than \$10 billion a year needlessly lighting up the night sky!

Second, we need to pay as much attention to the appearance of the site and architectural details at night as we do during the day. To do so, hire a qualified lighting professional, who is aware of the need to provide visual performance as well as aesthetics. Also, the specification and purchasing of lighting can have some hidden pitfalls that require professional guidance.

Third, with public infrastructure, we must consider life cycle, total cost of ownership, and return on investment, rather than simply low initial cost. If you are specifying pedestrian or area lighting from a local utility, insist on full cutoff luminaires and the minimum available wattages. Remember, utilities are in the business of selling electricity, and nighttime, off-peak consumption is very profitable. Don't be put off by talk of what is "standard". Ask for, or show them, new, improved products, which are now being offered competitively by many manufacturers.

Finally, are your architectural and engineering consultants up to date with the new guidelines from such groups as IESNA, NEMA, AASHTO, and others? For the first time, such organizations are formally addressing the quality of lighting, rather than just the quantity. Soon, we will have recommended minimum and maximum illumination levels for specific outdoor tasks in four described environmental zones, ranging from urban to rural preservation.

With more awareness, better training of the lighting professionals, manufacturers who produce innovative products for increasingly sophisticated users, and educated consumers, we can reverse the degradation of our urban nightscape and leave a better appearing and functioning environment for both ourselves and our children.

Here are some checklist items for your project:

- ▶ Does the lighting emphasize desirable architectural features?
- ▶ Is nighttime mobility easy for the visitor?
- ▶ Is the entrance properly highlighted?
- ▶ Is the parking lot adequately lit, yet not over lit?
- ▶ Is the wiring for your exterior lighting configured to allow levels to be reduced or turned off entirely after operating hours?
- ▶ Do your lights shine directly onto the property of your neighbors or into the eyes of passing drivers?
- ▶ Are your "wallpaks" shielded?
- ▶ If color rendering is a priority, has the proper lamp been specified?
- ▶ Is signage appropriate in size, coloring, position, and brightness?
- ▶ Have you utilized the latest lighting design software to model the appearance of your project?
- ▶ Is the impression at night one of elegance, comfort, and clarity, with a unified theme?



For information on IDA membership and the FSA program visit our Web site at www.darksky.org.