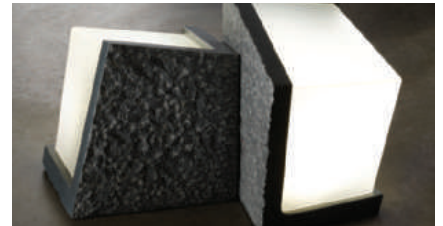


The Dawn of The LED Age

THE AGE OF THE LED is approaching, following years of hype. As if to mark the new era, in May *The New York Times* trumpeted a new LED installation in Buckingham Palace, one greeted with royal approval by prince Charles, an avid environmentalist. With his penchant for neoclassical architecture, the Prince seems more enamored of the technology than the aesthetics of modern LED fixture designs. The streamlined design of Kim Lighting's Warp 9 LED outdoor area light, for example (right), is a tad intimidating. Yet, this sleek fixture offers much to cement the LED's position as the outdoor illumination of the future: retrofit-ready with reduced glare, high efficiencies, lead- and mercury-free materials, and 90% recycled content. Until LEDs are fully embraced, there are excellent, efficient choices in halogen, incandescent, and fluorescent, too.



KEY \$ = VALUE, \$\$ = MID-RANGE, \$\$\$ = HIGH-END



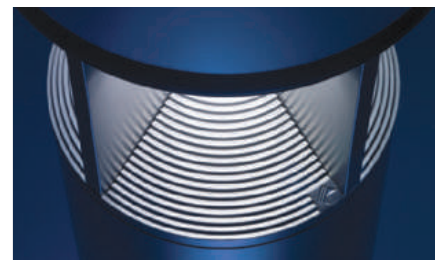
SOLAR-POWERED LANDSCAPE LIGHT

MANUFACTURER: Qnuru
PERFORMANCE: 8 watts consumption
PRICE RANGE: \$\$\$
APPLICATIONS: Each Talus lighting unit, available in pairs or sets of eight, conceals within its translucent lenses a custom-designed photovoltaic collection system. Orient the pair to optimize solar exposure, and aim the luminous mate in any direction. In three colors: beige granite, blue-gray granite, and iron.
WWW.SOLARLIGHTINGBYQNURU.COM
 (SNAP #89)



LANTERN-STYLE SCONCE

MANUFACTURER: Boyd Lighting
PERFORMANCE: A-19 60W max, or 26W fluorescent
PRICE RANGE: \$\$\$
APPLICATIONS: Designed by superstar Barbara Barry in Boyd's signature materials of brass and glass, the Belvedere sconce is available in two sizes, four finishes, and a choice of frosted or clear ribbed diffusers. UL-rated for wet locations, Belvedere has two matching pendant versions.
WWW.BOYDLIGHTING.COM (SNAP #90)



SUPER-BRIGHT LED BOLLARD

MANUFACTURER: Kim Lighting
PERFORMANCE: IP 46 rated, Dark Sky-compliant
PRICE RANGE: \$\$\$
APPLICATIONS: Now in super-bright white LED, the Gem Performance Bollard uses 30-, 45-, or 60-watt modules in a unique fluted glass refractor that spreads light evenly in a beam pattern and eliminates shadows from the support structure. Concrete or aluminum shafts.
WWW.KIMLIGHTING.COM (SNAP #91)

SNAP BACK



ERIC CHENAULT, LC, LEED AP
Senior Designer
Leni Schwendinger Light Projects Ltd.
New York City

"If you're up to the task of being a lighting activist, remember: Progress takes patience and a balanced approach. Spend time educating the client - and yourself. Look to the latest light-and-health studies, dark skies initiatives, and pilot projects of similar nature and scale. Reaching out to professional organizations for assistance or referrals can save time and hassles."



JOHN CLARK, AIA, LEED AP
Founding Principal
Cordogan, Clark & Associates Inc.
Chicago

"Efficacy is generally an issue in outdoor lighting, since it directly affects the result. Depending on which standard you're trying to meet you might hold yourself to a minimum of 45 lumens per watt or 0.2 watts per square foot as permitted for buildings. For the new I-88 Bridge, we were able to create a lighting scheme that utilized only two 120-volt, 20-amp circuits."



MATT ALLEMAN, LC, LEED AP
Lighting Designer
SmithGroup
Detroit

"LEDs produce concentrated light in moderate amounts at relatively low wattage, lending them to low-level accent lighting, grazing, and landscape lighting. But all LEDs are not created equal. Always view samples, and perform mock-ups to insure that fixtures are meeting manufacturers' claims. Stick with reputable manufacturers who provide extended warranties."

SNAPSHOTS

EXTERIOR LIGHTING MANUFACTURERS TO WATCH

- STERNBERG LIGHTING (SNAP #86)
- ATLANTIS RAIL SYSTEMS (SNAP #87)
- LANDSCAPE FORMS INC. (SNAP #88)

SOURCE: TOP THREE DATA DOWNLOADS AT SWEETS.COM FROM 3/09-4/09

NIGHT BRIGHTNESS

GROWTH IN THE U.S. OUTDOOR LIGHTING EQUIPMENT MARKET

2004	\$2.8 BILLION
2005	\$2.9 BILLION (6.5%)
GROWTH OF OUTDOOR LIGHTING IMPORTS IN THE SAME PERIOD	11.7%
CONSTRUCTION GROWTH IN THE SAME PERIOD	9.3%

SOURCE: SBI, SPECIALISTS IN BUSINESS INFORMATION

NEW MATH

4,000,000,000

Number of commercial and residential light bulb sockets in the United States.

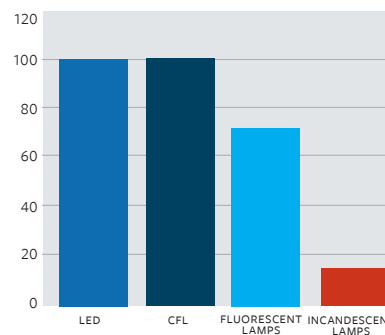
1,000,000,000

Number of 60-watt A-type lamps to be installed in the U.S. by 2010.

SOURCE: PHILIPS LIGHTING; ACEEE; U.S. DOE; CALIFORNIA STATE ENERGY COMMISSION

EFFICIENT LIGHTING OUTDOORS

AVERAGE EFFICACIES OF WHITE-LIGHT-PRODUCING SOURCES, IN LUMENS/WATT



SOURCE: DR. M. NISA KHAN, PRES. OF LED LIGHTING TECHNOLOGIES