Functional or task-oriented luminaires are defined as fixtures that are physically, electrically, and optically designed to illuminate specific visual tasks or areas with a quantifiable amount of illumination. There may be a more obvious connection between energy efficiency and functional luminaires, however it doesn’t mean that the design of these fixtures are not also carefully considered. There are often higher performance expectations of functional luminaires, such as being able to incorporate new technology and successfully engineer a product to maximize all aspects of lighting performance.

Task-oriented Lighting

Lighting intended to illuminate a specific area from a preferred direction or source. Several examples of functional lighting include:

- Track lights
- Recessed downlights
- Desk lamps
- Under cabinet and cove lighting
- Outdoor post, porch, and landscape lighting

Replacement Lamps (Light Bulbs)

LED replacement lamps are intended to replace less efficient incandescent, CFL and halogen technology and can deliver exceptional features while using less energy. These products are increasingly available in a variety of shapes and color temperatures. Examples include:

- Standard shape A-lamps
- Reflector lamps
- Decorative shapes, including globe, candelabra, and flame-tip bulbs
- Filament-style LEDs
3-Head LED Motion-Activated Flood Light
Good Earth Lighting, Inc
Designer: Alex Kowalenko

The 3-Head LED Motion-Activated Flood Light offers 2N1 Security & Area Light adjustment controls. The Area light (low brightness) can be set from dusk to dawn and Security light (full brightness) activates when motion is detected, further discouraging intruders from coming near your home. The dual sensors provide 240° wide coverage to detect motion up to 100 feet and 360° downward below up to 14 feet, covering any traditional blind spot. A built-in timer and sensitivity controls allows for total consumer customization. Manual override switch control is available for added security. The die cast aluminum construction and shatter-resistant lens will not rust in complex weather. With one screw mounting and pre-installed quick connectors, installation is quick and easy. This fixture has universal mounting allows for wall, eave or surface mounting making it the most versatile security light. Ten Year Limited Warranty. Available in white and bronze finishes.

PRODUCT PERFORMANCE:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wattage</td>
<td>33.97 W</td>
</tr>
<tr>
<td>Light Output (lumens)</td>
<td>3286.39 lm</td>
</tr>
<tr>
<td>Efficacy (lumens/watt)</td>
<td>97.26 lm/W</td>
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<tr>
<td>Color Temperature (CCT)</td>
<td>5161K</td>
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<tr>
<td>Color Rendering Index (CRI)</td>
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</tr>
<tr>
<td>Test Laboratory</td>
<td>Intertek Testing</td>
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<tr>
<td>ENERGY STAR® Qualification</td>
<td>Yes</td>
</tr>
<tr>
<td>Warranty</td>
<td>10 year limited warranty</td>
</tr>
</tbody>
</table>

The dusk to dawn feature, slim appearance, and price point are all fantastic. This product illustrates a keen level of detail and adjustability.

AVAILABLE:
Available now through Lowe’s and Green Electrical Supply.

CONTACT INFORMATION:
Good Earth Lighting, Inc
1400 East Business Center Drive, Ste. 108 Mount Prospect, IL 60056
(847) 808 1133
www.goodearthlighting.com
**Duo AC LED Color Option Light Bar**

**WAC Lighting**

Bringing out the best in bold, eye-catching residential, retail and commercial displays, DUO AC 120V LED Light Bar is ideal for lighting counters and cabinets. This thermally efficient fixture is crafted for illuminating heat sensitive perishables and color sensitive apparel and collectibles. The ENERGY STAR rated DUO AC Light Bar is the perfect under cabinet task lighting solution. Using a 98 percent efficient reflector, LED light from inside the housing diffuses inside the mixing chamber in order to create evenly distributed illumination. Multiple knockouts are available for ease of wiring. Extruded aluminum constructed for optimal thermal management and designed with just a one-inch profile, the Line Voltage Light Bar is available in 5 sizes, ranging from the 8-inch 6-watt luminaire delivering 330 lumens to the 30-inch model using 17.5 watts with 1095 lumens. Contractor friendly, it offers screws that directly mount- you don't have to open up the fixture for installation, and wires in the back that install easily. A flick of the switch alternates between 2700K and 3000K color temperatures depending on your lighting preferences. The luminaires deliver a Color Rendering Index (CRI) of 90 plus. The Light Bar dims down beautifully with smooth, glare-free and continuous electronic low voltage or TRIAC dimming.

**PRODUCT PERFORMANCE:**

<table>
<thead>
<tr>
<th>Wattage:</th>
<th>6W – 17.5 W</th>
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<tbody>
<tr>
<td>Light Output (lumens):</td>
<td>330-1095 lm</td>
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<tr>
<td>Efficacy (lumens/watt):</td>
<td>61.77 lm/W</td>
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<td>Color Temperature (CCT):</td>
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<td>Color Rendering Index (CRI):</td>
<td>95.1</td>
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<td>Test Laboratory:</td>
<td>WAC Lighting Co., Ltd. Laboratory</td>
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<td>Yes</td>
</tr>
<tr>
<td>Warranty:</td>
<td>5 year product warranty</td>
</tr>
</tbody>
</table>
Oculux
WAC Lighting

A brand new Recessed LED line for WAC Lighting, Oculux features the 2-inch Adjustable LED Luminaire in round and square styles, as well as straight down light models. Offered with a versatile IC Rated remodel and new construction airtight housing, Oculux is designed to fit into tight plenum spaces that are under four inches and ideal for installation inside fine interiors or exteriors.

ENERGY STAR® Rated and Title 24 Compliant, the recessed luminaire has a cutout of 3 1/16”, uses a single spot light source, and dims down beautifully with an ELV or TRIAC or 0-10V dimmer. Constructed with a die-cast aluminum trim and an aluminum heat sink, Oculux is offered in brushed nickel, white or haze finishes and with beam distributions ranging from 15° to 45°. The LED luminaire delivers up to 700 total lumens and a 3245 center beam candlepower (CBCP). Available in a 2700K or 3000K Correlated Color Temperature (CCT), the LED downlight operates on 120-volt systems and is comparable to a 50-watt MR16 fixture. New Oculux complementary LED down light and track luminaires are now available.

With its great color and color rendering, this clever product isn’t so obviously an LED as similar market options. A small but effective specialty downlight!

PRODUCT PERFORMANCE:

Wattage: 8.754 W
Light Output (lumens): 580.08 lm
Efficacy (lumens/watt): 66.26 lm/W
Color Temperature (CCT): 2700K
Color Rendering Index (CRI): 89.8
Test Laboratory: WAC Lighting Co., Ltd. Laboratory
ENERGY STAR® Qualification: Yes
Warranty: 5 year warranty

AVAILABLE: Available Now
CONTACT INFORMATION:
WAC Lighting
44 Harbor Park Drive  Port Washington, NY 11050
1 (800) 526 2588
www.waclighting.com
The WAC Lighting Silo X20 LED Track/Rail Luminaire offers superior light output in a small, unobtrusive design with a wide range of dynamic beam adjustments and is engineered with a single source LED, optical and thermal management in a slender die-cast body. Ideal for residential, hospitality, museum and commercial applications, Silo offers powerful directional lighting with a clean, simple form. Crafted with die-cast aluminum, the Silo features integral LED technology and driver, and includes a field adjustable lens for beam control. The luminaire projects a 3000K color temperature projected in 15°-50° beam spreads, which can be field-adjusted at the front of the track head for various applications. The Silo is dimmable with an ELV dimmer and offers 50,000 hours of life. The performance-based luminaire is available in architectural brushed nickel, brass, black and white finishes.

The LED track luminaire accommodates one lens and one glare control accessory. Silo operates on the L, J, J2 and H track systems, as well as flexible rail systems. The luminaire provides up to 1080 lumens with a center beam candlepower (CBCP) up to 6840, with high-power COB LEDs. Using just 20 watts, it is comparable to a 75-watt Halogen MR16 fixture. It has a Color Rendering Index (CRI) that exceeds 90. Silo is available with amber, blue, green, red and amber lenses, as well as frosted, spread, and beam elongating lenses. Glare is controlled with cross-louver, snoots and honeycomb louveres as well. A framing projector accessory is also available.

**PRODUCT PERFORMANCE:**

<p>| | |</p>
<table>
<thead>
<tr>
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</tr>
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<tbody>
<tr>
<td>Wattage</td>
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<tr>
<td>Light Output (lumens)</td>
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<td>Color Temperature (CCT)</td>
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<tr>
<td>Warranty:</td>
<td>5 year warranty</td>
</tr>
</tbody>
</table>

**AVAILABLE:**

Available Now

**CONTACT INFORMATION:**

WAC Lighting
44 Harbor Park Drive  Port Washington, NY 11050
1 (800) 526 2588
www.waclighting.com
**Task-oriented Lighting Honorable Mention**

12" Dimmable Ultra Slim LED Undercabinet Light with Integrated Wave Sensor

L’Image Home Products Inc.

The wave activated ultra slim LED under cabinet light kit encompasses convenience, an elegant contemporary design, ease of installation and energy saving all in one. The 0.25 ultra slim design delivers a virtually invisible look when installed, creating particular focus on the accent light effect. Each LED light bar produces on average 255 lumens, at full brightness and emits soft white light while consuming 3.86 watts of energy. The integrated wave sensor turns the fixture on and off with a wave of the hand. Lights can be dimmed by holding the hand under the sensor. The dimmer sensor will remember the last brightness setting and goes back to this setting after the fixture is turned off and then on again. An easy DIY installation is made possible due to the direct plugin adapter as well as various mounting options (double-sided tape or hardware) included in the kit.

The fixture is ENERGY STAR certified and has a rated life of 50,000 hours. Different sizes of jumper cables as well as direct connectors to connect the LED light bars are also included in the kit, which makes it a highly customizable and versatile product that can be used in a variety of rooms including the kitchen, living room, workshop or home office.

**PRODUCT PERFORMANCE:**

<table>
<thead>
<tr>
<th>Wattage:</th>
<th>3.86 W</th>
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<tbody>
<tr>
<td>Light Output (lumens):</td>
<td>255 lm</td>
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<tr>
<td>Efficacy (lumens/watt):</td>
<td>66.2 lm/W</td>
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<td>Color Temperature (CCT):</td>
<td>2987K</td>
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<td>Color Rendering Index (CRI):</td>
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<td>Test Laboratory:</td>
<td>Intertek</td>
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<td>ENERGY STAR® Qualification:</td>
<td>Yes</td>
</tr>
<tr>
<td>Warranty:</td>
<td>3 year warranty</td>
</tr>
</tbody>
</table>

Available Now

CONTACT INFORMATION:

L’Image Home Products Inc.
1175 Place du Frère André, Montreal, QC, H3B 3X9
TOLL-FREE: 1-877-383-6399
info@limagehomeproducts.com
www.limagehomeproducts.com

This cost-effective light with its innovate hands-free dimming and slim design is an ideal option for niche areas of the home.
Fully Dimmable LED Filament Nostalgic T6 Bulbrite Industries Inc.

A bulb that fits in the palm of your hand – and still packs the perfect punch! Bulbrite’s LED Filament Nostalgic T6 bulb has the warm light output and finish of a traditional nostalgic incandescent, with all the benefits of LED. Extremely energy efficient, this ENERGY STAR qualified bulb clocks in at 2.5 watts and 160 lumens, for an impressive lumens per watt ratio. This E12 base bulb is UL Listed for damp locations, suitable for enclosed fixtures, and compatible with all dimmer types, making it an ideal fit for coach lights, sconces, chandeliers, and ceiling fixtures. Available now for under $10.00, these bulbs are the perfect mix of function, style and energy efficiency, all in a neat little package. Check out the entire family of nearly 50 fully dimmable LED Filament bulbs, as well as all of Bulbrite’s other great lighting products, at www.bulbrite.com.

PRODUCT PERFORMANCE:

Wattage: 2.5W
Light Output (lumens): 163.6 lm
Efficacy (lumens/watt): 76.06 lm/W
Color Temperature (CCT): 2316K
Color Rendering Index (CRI): 82.8
Test Laboratory: Standard-Tech Co. Ltd Testing Center
ENERGY STAR® Qualification: Yes
Warranty: 5 year warranty

CONTACT INFORMATION:
Bulbrite Industries Inc.
Michael Stack, Product Manager
145 West Commercial Ave., Moonachie, NJ 07074
1-800-528-5555
www.bulbrite.com
The REFINE SERIES PAR38 lamp was designed and engineered for applications that demand high performance lighting and accurate color rendering. At just 17W, this ENERGY STAR certified lamp emits 1430 lumens for an industry leading efficacy of 84 lumens per watt. Its 7500 candela in a narrow flood beam angle is also the highest among all other high CRI 120W replacements. All PAR REFINE Series lamps feature the patented three-part REFINE optic which combines a reflector, focus lens and shaping lens to achieve smooth and uniform light output. With a CRI of 90, R9 65 and R13 90, this lamp provides crisp and vibrant colors for applications such as merchandise, art and food. In addition, color temperatures fall within a 4-step Macadam ellipse to ensure minimal color deviation across lamps. The PAR38 17W is fully dimmable, enclosed fixture rated, lasts 50,000 hours and is available in 2700K, 3000K, 4000K color temperatures in SP15, NF25 and FL40 beam angles. This lamp is also available in 120-277V and GU24 versions.

LED PAR lamps with this brightness are few and far between; this one has nice output and color, and its beam spread makes it a good choice for home lighting.

PRODUCT PERFORMANCE:

Wattage: 16.99 W
Light Output (lumens): 1723.1 lm
Efficacy (lumens/watt): 101.44 lm/W
Color Temperature (CCT): 3056K
Color Rendering Index (CRI): 92.9
Test Laboratory: Bay Area Compliance Labs Corp.
ENERGY STAR® Qualification: Yes
Warranty: 5 year warranty

AVAILABLE: Available Now

CONTACT INFORMATION:
Green Creative
1200 Bayhill Drive, Suite 220 San Bruno, CA 94066
(866) 774 5433
LED A19
Title 24 Compliant
JA8 Qualified
Bulbrite Industries Inc.

Bulbrite’s series of Title 24 Compliant JA8 Qualified A-Type LEDs are designed to meet the needs of the California builder’s market. Not only do these items meet all of the recently effective 2016 Title 24 Building Standards, they introduce high quality lighting for an everyday A-Type bulb to consumers in all of North America. Available in both 2700K and 3000K, consumers will enjoy comfortable lighting that emulates incandescent and halogen light sources. Additionally, these lamps have met the strict test methods of JA10 which ensure that flicker is not an issue with this lamp as it can be with lower quality LEDs. They are available to sell within the market for less than $10 making them an affordable energy efficient alternatives users will love.

PRODUCT PERFORMANCE:

Wattage: 9.54 W
Light Output (lumens): 852.77 lm
Efficacy (lumens/watt): 89.39 lm/W
Color Temperature (CCT): 3012K
Color Rendering Index (CRI): 94.7
Test Laboratory: BEST Test Service Shenzhen Co., Ltd.
ENERGY STAR® Qualification: Yes
Warranty: 5 year limited warranty
JA8 Certified: Yes

AVAILABLE:
Available Now

CONTACT INFORMATION:
Bulbrite Industries Inc.
Martha Kahn, Product Manager
145 West Commercial Ave., Moonachie, NJ 07074
1-800-528-5555
www.bulbrite.com

Not all LEDs are made equal, and some render color better than others; this A-lamp provides some of the best color we’ve seen on the market.
Replacement Lamp Honorable Mention

100W Equivalent

This sturdy A-lamp is certainly one of the best 100W replacements we’ve seen.

**JA8 Certified LED A21 Lamp**

**MaxLite**

Designed to meet Title 24 2016 building code requirements for the State of California, MaxLite’s Joint Appendix 8 (JA8)-certified LED dimmable A-lamp delivers even lighting equivalent to that of a 100-watt incandescent bulb at 87 percent energy savings. The omnidirectional lamp produces 1,600 lumens of soft, warm white light with superior color rendering (90-plus CRI) that reveals the true color of décor and objects in the surrounding environment. An ideal choice for creating eye-pleasing illumination in any interior application, the ENERGY STAR certified lamp is available in 2700K and 3000K temperatures and has a long life of 25,000 hours. The lamp is dimmable and suitable for use in damp locations. The lamp is dimmable and damp location listed; new models are also suitable for enclosed applications.

**PRODUCT PERFORMANCE:**

- **Wattage:** 17.04 W
- **Light Output (lumens):** 1624 lm
- **Efficacy (lumens/watt):** 95 lm/W
- **Color Temperature (CCT):** 2723K
- **Color Rendering Index (CRI):** 90.7
- **Test Laboratory:** Caldwell Independent Testing Laboratories
- **ENERGY STAR® Qualification:** Yes
- **Warranty:** 5 year limited warranty
- **JA8 Certified:** Yes