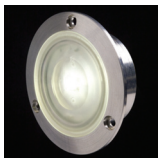
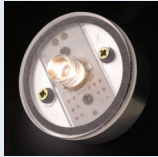



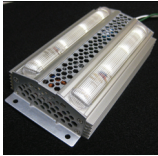


## OptoElectronix Plug-&-Play LED Light Engine Products

OptoElectronix™ high-reliability LED Universal Light Engine™, LightBlox™, LightDisc™, and LightStix™ products deliver clean LED light with a very long life at very low power consumption. Our fully integrated LED lighting products include the LED, optics, power supply, heat management, and drivers in a compact plug-and-play package. All of our products will last a minimum of 50,000 hours and include a five-year warranty.


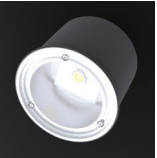

Product	Applications	Light Output	Lens	Power	Light Color	Key Features	Availability	Certifications and Testing
<b>Compact Round LED Universal Light Engines</b>							<b>5X More Efficient Than Halogen or Incandescent Bulbs</b>	
 <p>2.35" (60 mm) diameter x 0.85" (22 mm) deep</p>	<p><b>ULE21VW-F-25 Series</b>  <b>ULE21VW-F-38 Series</b>  <b>ULE21VW-F-45 Series</b>  <b>ULE21VW-F-60 Series</b></p> <ul style="list-style-type: none"> <li>Commercial refrigerator and freezer lighting</li> <li>Retail display lighting</li> <li>Under-counter lights</li> <li>Vending machines</li> <li>Range hoods</li> <li>Vanity lights</li> <li>Desk lights</li> <li>Workshop lights</li> <li>Emergency exit lights</li> <li>Landscape lighting</li> <li>Low-watt MR16 replacement</li> </ul>	<p><b>ULE21VW-F-25</b> 170 lumens; 25-watt bulb equivalent</p> <p><b>ULE21VW-F-38</b> 300 lumens; 38-watt bulb equivalent</p> <p><b>ULE21VW-F-45</b> 495 lumens; 45-watt bulb equivalent</p> <p><b>ULE21VW-F-60</b> 615 lumens; 60-watt bulb equivalent</p>	180-degree wide flood pattern	<p>ULE21VW-F-25 and -38: Integrated power supply connects directly to 12V<sub>AC</sub> or 12V<sub>DC</sub></p> <p>ULE21VW-F-45 and -60: Integrated power supply connects directly to 24V<sub>AC</sub> or 24V<sub>DC</sub></p>	Warm white or cool white light	<ul style="list-style-type: none"> <li>High light output in compact housing</li> <li>Flange for flush mounting</li> <li>Three-point screw-in mounting—ideal for recessed applications</li> <li>Brushed aluminum finish</li> <li>Housing designed for optimal thermal management</li> <li>UL and NSF International recognized</li> <li>IP66 (ingress protection) rating: dust tight and protected against powerful water jets</li> <li>LM-79 testing completed by ITL</li> <li>Low power consumption: ULE21VW-F-25 consumes only 3.6 watts of power ULE21VW-F-38 consumes only 6.1 watts of power ULE21VW-F-45 consumes only 8.9 watts of power ULE21VW-F-60 consumes only 10.7 watts of power</li> <li>Proprietary Dynamic Thermal Management Control™ circuitry ensures optimal operating temperature</li> </ul>	<b>Now</b>	<p><b>UL:</b> UL-recognized components in the U.S. and Canada.</p> <p><b>NSF International:</b> NSF/ANSI 2 compliant: Safe to use in fabricated food equipment (refrigerators, range hoods, etc.). NSF certificate C0031880-01.</p> <p><b>Ingress Protection Rating:</b> IP66.</p> <p><b>LM-79 testing</b> completed by ITL.</p>
 <p>1.57" (40 mm) diameter x 0.91" (23.18 mm) deep</p>	<p><b>ULE2210A/2211A</b></p> <ul style="list-style-type: none"> <li>Landscape lighting</li> <li>Safety &amp; security lighting</li> <li>Vehicle lighting</li> <li>General-purpose lighting</li> </ul>	60 lumens; 8-watt bulb equivalent	Lamp	Integrated power supply connects directly to 12V <sub>AC</sub> or 12V <sub>DC</sub>	Warm white or cool white light	<ul style="list-style-type: none"> <li>Integrated optics and lamp lens for cylinder lighting</li> <li>Integrated aluminum heat spreader and heat sink ensure extended life</li> <li>Threads directly into industry-standard 1/8" IPS light fixtures for optimal heat sinking</li> <li>UL-recognized component in the U.S. and Canada</li> </ul>	<b>Now</b>	<p><b>UL:</b> UL-recognized components in the U.S. and Canada: UL file E323412.</p>
 <p>1.57" (40 mm) diameter x 0.89" (22.6 mm) deep</p>	<p><b>ULE2260A/2261A</b></p> <ul style="list-style-type: none"> <li>Landscape lighting</li> <li>Safety &amp; security lighting</li> <li>Vehicle lighting</li> <li>General-purpose lighting</li> </ul>	60 lumens; 8-watt bulb equivalent	Dome	Integrated power supply connects directly to 12V <sub>AC</sub> or 12V <sub>DC</sub>	Warm white or cool white light	<ul style="list-style-type: none"> <li>Integrated optics with dome lens</li> <li>Integrated aluminum heat spreader and heat sink ensure extended life</li> <li>Threads directly into industry-standard 1/8" IPS light fixtures for optimal heat sinking</li> <li>UL-recognized component in the U.S. and Canada</li> </ul>	<b>Now</b>	<p><b>UL:</b> UL-recognized components in the U.S. and Canada: UL file E323412.</p>

OptoElectronix is the leader in *The Art of LEDs* — the conception, design, and manufacture of highly reliable, plug-and-play LED light engines

Product	Applications	Bulb Equivalent	Lens	Power	Light Color	Key Features	Availability	Certifications
Compact Round LED Universal Light Engines						5X More Efficient Than Halogen or Incandescent Bulbs		
 <p><b>ULE3000</b></p>  <p><b>ULE 3200</b></p> <p>2.17" (55 mm) diameter x 1.49" (37.86 mm) deep</p>	<p><b>ULE3000 Series and ULE3200 Series</b></p> <ul style="list-style-type: none"> <li>Recreational vehicle lighting</li> <li>Aircraft lighting</li> <li>Cabinet lighting</li> <li>Display case lighting</li> </ul> <p>Diffuser option provides moisture protection for:</p> <ul style="list-style-type: none"> <li>Refrigeration lighting</li> <li>Cooler lighting</li> <li>Boat and marina lighting</li> <li>Bath lighting</li> <li>Landscape lighting</li> </ul>	65 lumens; 8-watt bulb equivalent	7.5-degree spot lens	<p><b>ULE3000</b> Electrical connection directly to the LED</p> <p><b>ULE3200</b> Integrated power supply connects directly to 12V<sub>AC</sub> or 12V<sub>DC</sub></p>	Warm white or cool white light	<ul style="list-style-type: none"> <li>Ideal for flush mounting</li> <li>3000 Series: Electrical input is directly to the LED—the designer can choose the LED drivers</li> <li>3200 Series: integrated power supply for 12V<sub>AC</sub> and 12V<sub>DC</sub> operation</li> <li>Aluminum housing provides optimal thermal management</li> <li>Optional flat, multifaceted diffuser is attached with a strong adhesive that provides protection from moisture</li> <li>Customization is available: diffusers, color filters, or polarizers</li> <li>UL-recognized component in the U.S. and Canada</li> </ul>	<b>Now</b>	<p><b>UL:</b> UL-recognized components in the U.S. and Canada: UL file E323412.</p>
LightBlox Rectangular LED Light Engines						4X More Efficient Than Halogen or Incandescent Bulbs		
 <p>5.98" (152 mm) long x 2.99" (76 mm) wide x 1.34" (34 mm) deep, including flanges</p>	<p><b>LightBlox ULE4000 Series</b></p> <ul style="list-style-type: none"> <li>ADA-compliant* wall sconces</li> <li>Wall-washing luminaires</li> <li>Floodlights</li> <li>General illumination</li> </ul> <p>* Americans With Disabilities Act-compliant</p>	1,000 lumens; 60-watt bulb equivalent	120-degree rectangular lens	Integrated power supply connects directly to 120V <sub>AC</sub> power	Warm white or cool white light	<ul style="list-style-type: none"> <li>Triac dimmer compatible</li> <li>Integrated power supply connects directly to junction box: replace the ballast, sockets, and bulbs with just one part</li> <li>High light output in a compact package</li> <li>Proprietary Dynamic Dimming Compensation Control™ circuitry eliminates dimmer flicker</li> <li>Integrated optics and heat sink</li> <li>Proprietary Dynamic Thermal Management Control circuitry ensures optimal operating temperature</li> <li>4X more efficient than incandescent or halogen bulbs</li> <li>End flanges for easy mounting</li> <li>Minimum 34-lumen-per-watt efficacy (varies with desired LED color)</li> <li>Power factor correction (PFC) to 90 percent</li> <li>Meets requirements of Energy Star compliance</li> <li>LM-79 testing completed by ITL</li> <li>Custom sizes are available</li> </ul>	<b>Now</b>	<p><b>UL:</b> UL-recognized components in the U.S. and Canada: UL file E323412.</p> <p><b>LM-79 testing</b> completed by ITL.</p> <p><b>ENERGY STAR :</b> Meets requirements of ENERGY STAR compliance.</p>

**Availability:** To purchase or for further information, please contact our corporate office, [sales@optoelectronix.com](mailto:sales@optoelectronix.com) or (408) 437-9455; our distributor, Nu Horizons Electronics, [www.nuhorizons.com/nusolutions/lighting/oei/](http://www.nuhorizons.com/nusolutions/lighting/oei/); or one of our local sales representatives, listed at [www.optoelectronix.com](http://www.optoelectronix.com). Complete data sheets are available at [www.optoelectronix.com](http://www.optoelectronix.com).

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Product	Applications	Bulb Equivalent	Lens	Power	Light Color	Key Features	Availability	Certifications
<b>LightDisc High-Output Round LED Light Engines</b>						<b>5X More Efficient Than Halogen or Incandescent Bulbs</b>		
 <p>8.08" (205.33 mm) diameter x 1.5" (38.11 mm) deep</p>	<p><b>LightDisc ULE5000</b> Ideal light source for large bowl luminaires</p>	1650 lumens; 120-watt bulb equivalent		Integrated power supply connects directly to 120V <sub>AC</sub>	Warm white or cool white light	<ul style="list-style-type: none"> <li>• 205 mm (8.1") diameter with integrated heat sink</li> <li>• Plug-and-play: Simple three-wire connection to 120V<sub>AC</sub></li> <li>• Triac-compatible dimmer</li> <li>• Mean time between failure (MTBF) of 50,000 hours</li> <li>• 5X more efficient than incandescent or halogen; consumes only 24 watts of power</li> <li>• Warm white or cool white light</li> <li>• Proprietary Dynamic Thermal Management Control circuitry ensures optimal operating temperature</li> </ul>	Samples: Q1 '10 Production: Q2 '10	
<b>Waterproof LED Light Engines for Landscape Lighting</b>						<b>5X More Efficient Than Halogen or Incandescent Bulbs</b>		
 <p>1.97" (50 mm) diameter x 1.56" (39.5 mm) deep</p>	<p><b>ULE7000 Series</b></p> <ul style="list-style-type: none"> <li>• Landscape bullet lights</li> <li>• Landscape floodlights</li> <li>• Underwater lighting</li> </ul>	150 to 600 lumens MR16 diameter 25-, 38-, and 45-watt bulb equivalents		Connects directly to 12V <sub>AC</sub> (1- and 2-LED versions) or 24V <sub>AC</sub> (3-LED version)	Warm white or cool white light	<ul style="list-style-type: none"> <li>• IP67 rating: safe to use under water to a depth of one meter</li> <li>• 50,000-hour life with OptoElectronix-designed VersaSink heat-sink sleeve</li> <li>• Dynamic Thermal Management™ circuitry for intelligent thermal protection</li> <li>• MR16 size-compatible</li> </ul>	Samples: Q1 '10 Production: Q2 '10	
<b>LightStix Linear LED Light Engines</b>						<b>5X More Efficient Than Halogen or Incandescent Bulbs</b>		
 <p>24" (609.6 mm) long x 1.18" (30 mm) wide x 0.87" (22 mm) deep</p>	<p><b>LightStix ULE8000 Series</b></p> <ul style="list-style-type: none"> <li>• Low-watt T5 florescent replacement</li> <li>• Display cases</li> <li>• Retail display lighting</li> <li>• Vending machine lighting</li> <li>• Under-counter lights</li> <li>• Beverage dispenser lighting</li> <li>• Lighted signs</li> <li>• Desk lights</li> <li>• Emergency exit lights</li> </ul>	100 lumens per foot ; T5 florescent bulb equivalent	180-degree linear light pattern	Integrated power supply connects directly to 12V <sub>AC</sub> or 12V <sub>DC</sub>	Warm white or cool white light	<ul style="list-style-type: none"> <li>• 100 lumens (10 LEDs) per foot</li> <li>• End-to-end connections</li> <li>• 200 lumens light output in compact housing</li> <li>• 5X more efficient than incandescent or halogen</li> <li>• Flange for easy mounting</li> <li>• Brushed aluminum finish</li> <li>• Negligible hot-spotting</li> <li>• Housing designed for optimal thermal management</li> <li>• Proprietary Dynamic Thermal Management Control circuitry ensures optimal operating temperature</li> </ul>	Samples: Q1 '10 Production: Q1 '10	

**Availability:** To purchase or for further information, please contact our corporate office, [sales@optoelectronix.com](mailto:sales@optoelectronix.com) or (408) 437-9455; our distributor, Nu Horizons Electronics, [www.nuhorizons.com/nusolutions/lighting/oei/](http://www.nuhorizons.com/nusolutions/lighting/oei/); or one of our local sales representatives, listed at [www.optoelectronix.com](http://www.optoelectronix.com). Complete data sheets are available at [www.optoelectronix.com](http://www.optoelectronix.com).

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