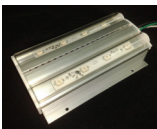
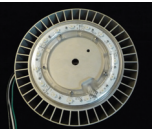
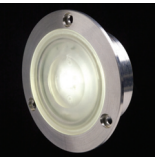




OptoElectronix Plug-&-Play LED Light Engine Products

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.

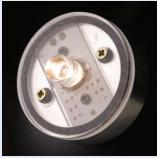

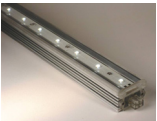
| Product | Applications | Light Output | Lens | Power | Light Color | Key Features | Availability | Certifications |
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| LightBlox Rectangular LED Light Engines | | | | | | 4X More Efficient Than Halogen or Incandescent Bulbs | | |
|  <p>2.99" (76 mm) wide x 5.98" (152 mm) long x 1.34 (34mm) high excluding flanges</p> | LightBlox ULE4000A Series <ul style="list-style-type: none"> • ADA-compliant* wall sconces • Wall-washing luminaires • Floodlights • General illumination <p>* Americans With Disabilities Act-compliant</p> | Cool white: 1000 lumens Warm white: 700 lumens 60-watt bulb equivalent | 120-degree rectangular lens | Integrated power supply connects directly to 120V _{AC} power | Warm white or cool white light | <ul style="list-style-type: none"> • Triac dimmer compatible • Integrated power supply connects directly to junction box: replace the ballast, sockets, and bulbs with just one part • High light output in a compact package • Proprietary Dynamic Dimming Compensation Control™ circuitry eliminates dimmer flicker • Integrated optics and heat sink • Proprietary Dynamic Thermal Management Control™ circuitry ensures optimal operating temperature • 4X more efficient than incandescent or halogen bulbs • End flanges for easy mounting • Minimum 34-lumen-per-watt efficacy (varies with desired LED color) • Power factor correction (PFC) to 90 percent | Available now <ul style="list-style-type: none"> • White powder coating available • Custom sizes available | Underwriters Laboratories: <ul style="list-style-type: none"> • UL-recognized components in the U.S. and Canada; UL file E323412. • UL8750— the Standard for Safety of LED Equipment for Use In Lighting Products • UL1598— the Standard for Safety of Luminaires <p>LM-79 testing completed by ITL.</p> <p>ENERGY STAR : Meets requirements of ENERGY STAR compliance.</p> |
| LightDisc High-Output Round LED Light Engines | | | | | | 3X More Efficient Than Halogen or Incandescent Bulbs | | |
|  <p>8.09" (205.4 mm) diameter x 1.44" (36.7 mm) high</p> | LightDisc ULE5000 Series <ul style="list-style-type: none"> • Ceiling fans • Drum lights • Large cylinder lighting • Semi-flush lighting • Rectangular wall sconces • Bollard lighting • Stand-alone bowl lights | Cool white: 1530 lumens Warm white: 1300 lumens 90-watt bulb equivalent | 120-degree floodlight pattern UL94-5VA optical-quality plastic lens for extreme flammability protection | Integrated power supply connects directly to 120V _{AC} | Warm white or cool white light | <ul style="list-style-type: none"> • Plug-and-play: Simple three-wire connection to 120V_{AC} • Triac-compatible dimmer • Proprietary Dynamic Dimming Compensation Control circuitry eliminates dimmer flicker • 50,000-hour life • 3X more energy efficient than incandescent or halogen; consumes only 28 watts of power • Warm white or cool white light • Proprietary Dynamic Thermal Management Control circuitry ensures optimal operating temperature • Power factor correction (PFC) to 80 percent • Integrated heat sink | Available now <ul style="list-style-type: none"> • White powder coating available | Underwriters Laboratories: <ul style="list-style-type: none"> • UL Component Recognition Program for the U.S. and Canada, UL file E323412 • UL8750—Standard for Safety of LED Equipment for Use In Lighting Products • UL1598—Standard for Safety of Luminaires <p>LM-79 testing completed by ITL</p> <p>ENERGY STAR: Meets requirements of ENERGY STAR compliance</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 |
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| Compact Flush-Mount Round LED Universal Light Engines | | | | | | 5X More Efficient Than Halogen or Incandescent Bulbs | | |
|  <p>2.35" (60 mm) diameter x 0.85" (22 mm) deep</p> | <p>ULE21VW-F-25 Series ULE21VW-F-38 Series ULE21VW-F-45 Series ULE21VW-F-60 Series</p> <ul style="list-style-type: none"> Commercial refrigerator and freezer lighting Retail display lighting Under-counter lights Vending machines Range hoods Vanity lights Desk lights Workshop lights Emergency exit lights Landscape lighting Low-watt MR16 replacement | <p>ULE21VW-F-25 170 lumens; 25-watt bulb equivalent</p> <p>ULE21VW-F-38 300 lumens; 38-watt bulb equivalent</p> <p>ULE21VW-F-45 495 lumens; 45-watt bulb equivalent</p> <p>ULE21VW-F-60 615 lumens; 60-watt bulb equivalent</p> | 180-degree wide flood pattern | <p>ULE21VW-F-25 and -38: Integrated power supply connects directly to 12V_{AC} or 12V_{DC}</p> <p>ULE21VW-F-45 and -60: Integrated power supply connects directly to 24V_{AC} or 24V_{DC}</p> | Warm white or cool white light | <ul style="list-style-type: none"> High light output in compact housing Flange for flush mounting Three-point screw-in mounting—ideal for recessed applications Brushed aluminum finish Housing designed for optimal thermal management IP66 (ingress protection) rating: dust tight and protected against powerful water jets 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 Proprietary Dynamic Thermal Management Control™ circuitry ensures optimal operating temperature | Available now | <p>Underwriters Laboratories: UL-recognized components in the U.S. and Canada.</p> <p>NSF International: NSF/ANSI 2 compliant: Safe to use in fabricated food equipment (refrigerators, range hoods, etc.). NSF certificate C0031880-01.</p> <p>Ingress Protection Rating: IP66.</p> <p>LM-79 testing completed by ITL.</p> |
|  <p>ULE3000</p>  <p>ULE 3200</p> <p>2.17" (55 mm) diameter x 1.49" (37.86 mm) deep</p> | <p>ULE3000 Series and ULE3200 Series</p> <ul style="list-style-type: none"> Recreational vehicle lighting Aircraft lighting Cabinet lighting Display case lighting <p>Diffuser option provides moisture protection for:</p> <ul style="list-style-type: none"> Refrigeration lighting Cooler lighting Boat and marina lighting Bath lighting Landscape lighting | 65 lumens; 8-watt bulb equivalent | 7.5-degree spot lens | <p>ULE3000 Electrical connection directly to the LED</p> <p>ULE3200 Integrated power supply connects directly to 12V_{AC} or 12V_{DC}</p> | Warm white or cool white light | <ul style="list-style-type: none"> Ideal for flush mounting 3000 Series: Electrical input is directly to the LED—the designer can choose the LED drivers 3200 Series: integrated power supply for 12V_{AC} and 12V_{DC} operation Aluminum housing provides optimal thermal management Optional flat, multifaceted diffuser is attached with a strong adhesive that provides protection from moisture Customization is available: diffusers, color filters, or polarizers UL-recognized component in the U.S. and Canada | Now | <p>Underwriters Laboratories: UL-recognized components in the U.S. and Canada: UL file E323412.</p> |

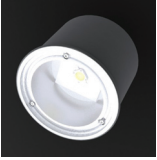
Availability: To purchase or for further information, please contact our corporate office, sales@optoelectronix.com or (408) 437-9455; our distributor, Nu Horizons Electronics, www.nuhorizons.com/nusolutions/lighting/oei/; or one of our local sales representatives, listed at www.optoelectronix.com. Complete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

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| | | | | | | 5X More Efficient Than Halogen or Incandescent Bulbs | | |
| Compact Round LED Universal Light Engines | | | | | | | | |
|  1.57" (40 mm) diameter x 0.91" (23.18 mm) deep | ULE2210A/2211A <ul style="list-style-type: none"> Landscape lighting Safety & security lighting Vehicle lighting General-purpose lighting | 60 lumens; 8-watt bulb equivalent | Lamp | Integrated power supply connects directly to 12V _{AC} or 12V _{DC} | Warm white or cool white light | <ul style="list-style-type: none"> Integrated optics and lamp lens for cylinder lighting Integrated aluminum heat spreader and heat sink ensure extended life Threads directly into industry-standard 1/8" IPS light fixtures for optimal heat sinking UL-recognized component in the U.S. and Canada | Available now | Underwriters Laboratories: UL-recognized components in the U.S. and Canada: UL file E323412. |
|  1.57" (40 mm) diameter x 0.89" (22.6 mm) deep | ULE2260A/2261A <ul style="list-style-type: none"> Landscape lighting Safety & security lighting Vehicle lighting General-purpose lighting | 60 lumens; 8-watt bulb equivalent | Dome | Integrated power supply connects directly to 12V _{AC} or 12V _{DC} | Warm white or cool white light | <ul style="list-style-type: none"> Integrated optics with dome lens Integrated aluminum heat spreader and heat sink ensure extended life Threads directly into industry-standard 1/8" IPS light fixtures for optimal heat sinking UL-recognized component in the U.S. and Canada | Available now | Underwriters Laboratories: UL-recognized components in the U.S. and Canada: UL file E323412. |
| | | | | | | 5X More Efficient Than Halogen or Incandescent Bulbs | | |
| LightStix Linear LED Light Engines | | | | | | | | |
|  24" (609.6 mm) long x 1.18" (30 mm) wide x 0.87" (22 mm) deep | LightStix ULE8000 Series <ul style="list-style-type: none"> Low-watt T5 florescent replacement Display cases Retail display lighting Vending machine lighting Under-counter lights Beverage dispenser lighting Lighted signs Desk lights Emergency exit lights | 100 lumens per foot T5 florescent bulb equivalent | 180-degree linear light pattern | Integrated power supply connects directly to 12V _{AC} or 12V _{DC} | Warm white or cool white light | <ul style="list-style-type: none"> 100 lumens (10 LEDs) per foot End-to-end connections 200 lumens light output in compact housing 5X more efficient than incandescent or halogen Flange for easy mounting Brushed aluminum finish Negligible hot-spotting Housing designed for optimal thermal management Proprietary Dynamic Thermal Management Control circuitry ensures optimal operating temperature | Samples: Q4 '10 Production: Q4 '10 | |

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

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| Product | Applications | Bulb Equivalent | Lens | Power | Light Color | Key Features | Availability | Certifications |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------|
| Waterproof LED Light Engines for Landscape Lighting | | | | | | 5X More Efficient Than Halogen or Incandescent Bulbs | | |
|  <p>1.97" (50 mm) diameter x 1.56" (39.5 mm) deep</p> | <p>ULE7000 Series</p> <ul style="list-style-type: none"> • Landscape bullet lights • Landscape floodlights • Underwater lighting | <p>150 to 600 lumens</p> <p>MR16 diameter</p> <p>25-, 38-, and 45-watt bulb equivalents</p> | | <p>1- and 2-LED versions: Connects directly to 12V_{AC}</p> <p>3-LED version: Connects directly to 24V_{AC}</p> | <p>Warm white or cool white light</p> | <ul style="list-style-type: none"> • IP67 rating: safe to use under water to a depth of one meter • 50,000-hour life with OptoElectronix-designed VersaSink heat-sink sleeve • Dynamic Thermal Management™ circuitry for intelligent thermal protection • MR16 size-compatible | <p>Samples: Q3'10</p> <p>Production: Q4'10</p> | |

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

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