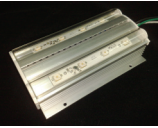
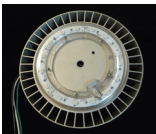
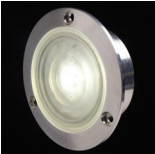




Ex. 1013

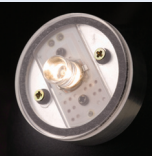


OptoElectronix Plug-&-Play LED Light Engine Products

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. All 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

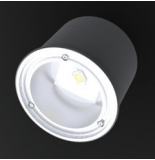
Product	Applications	Light Output	Lens	Power	Light Color	Key Features
LightBlox Rectangular LED Light Engines 4X More Efficient						
 <p>2.99" (76 mm) wide x 5.98" (152 mm) long x 1.34 (34mm) high excluding flanges</p>	<p>LightBlox ULE4000A Series</p> <ul style="list-style-type: none"> • ADA-compliant* wall sconces • Wall-washing luminaires • Floodlights • General illumination <p>* Americans With Disabilities Act-compliant</p>	<p>Cool white: 1000 lumens</p> <p>Warm white: 700 lumens</p> <p>60-watt bulb equivalent</p>	<p>120-degree rectangular lens</p>	<p>Integrated power supply connects directly to 120V_{AC} power</p>	<p>Warm white or cool white light</p>	<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
LightDisc High-Output Round LED Light Engines 3X More Efficient						
 <p>8.09" (205.4 mm) diameter x 1.44" (36.7 mm) high</p>	<p>LightDisc ULE5000 Series</p> <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 	<p>Cool white: 1530 lumens</p> <p>Warm white: 1300 lumens</p> <p>90-watt bulb equivalent</p>	<p>120-degree floodlight pattern</p> <p>UL94-5VA optical-quality plastic lens for extreme flammability protection</p>	<p>Integrated power supply connects directly to 120V_{AC}</p>	<p>Warm white or cool white light</p>	<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

Product	Applications	Bulb Equivalent	Lens	Power	Light Color	Key Features
Compact Flush-Mount Round LED Universal Light Engines 5X More Eff						
 <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
 <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

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; or one of our local sales representatives, listed at www.optoelectronix.com. Complete data sheets are available at www.optoelectronix.com.

Product	Applications	Bulb Equivalent	Lens	Power	Light Color	Key Features
Compact Round LED Universal Light Engines						5X More Eff
 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
 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
LightStix Linear LED Light Engines						5X More Eff
 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

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.nu-electronics.com; or one of our local sales representatives, listed at www.optoelectronix.com. Complete data sheets are available at www.optoelectronix.com.

Product	Applications	Bulb Equivalent	Lens	Power	Light Color	Key Features
Waterproof LED Light Engines for Landscape Lighting						5X More E
 <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

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; or one of our local sales representatives, listed at www.optoelectronix.com. Complete data sheets are available at www.optoelectronix.com.