

RELUME LED COBRA LIGHTS BURN BRIGHTER, LAST LONGER, AND REDUCE ENERGY CONSUMPTION

Relume's own high performing insulate metal substrate allows a 200% to 400% increase in LED arrays luminous output. And by using less energy and reducing maintenance costs, Relume LED Lights lessen fossil fuel use for less air pollution and less global warming impact.

ELIMINATE HOT SPOTS

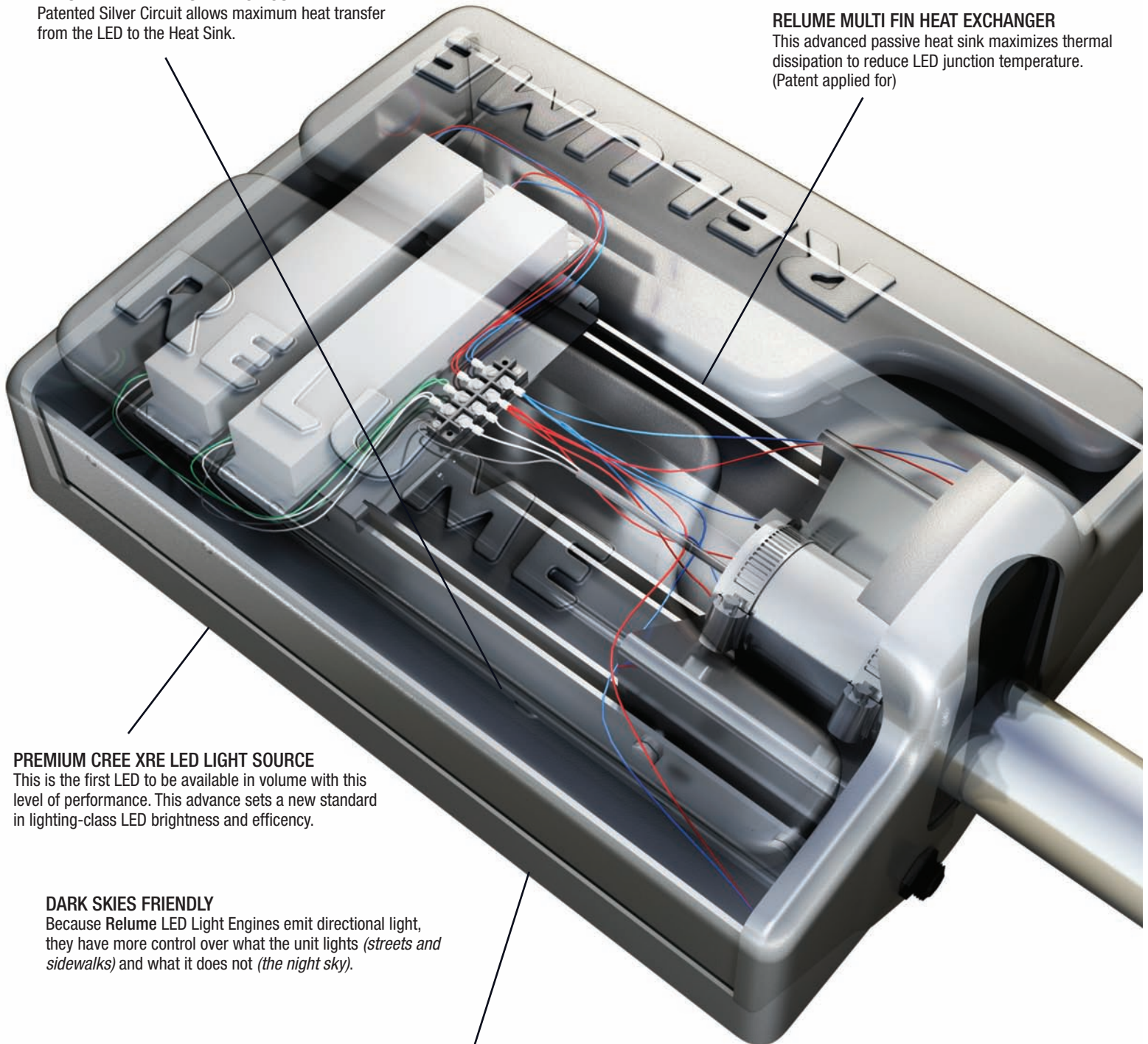
Each unit is designed specifically to give the most even light output possible without creating any "Hot Spots."

RELUME PATENTED SILVER CIRCUIT

Patented Silver Circuit allows maximum heat transfer from the LED to the Heat Sink.

RELUME MULTI FIN HEAT EXCHANGER

This advanced passive heat sink maximizes thermal dissipation to reduce LED junction temperature. (Patent applied for)



PREMIUM CREE XRE LED LIGHT SOURCE

This is the first LED to be available in volume with this level of performance. This advance sets a new standard in lighting-class LED brightness and efficiency.

DARK SKIES FRIENDLY

Because Relume LED Light Engines emit directional light, they have more control over what the unit lights (*streets and sidewalks*) and what it does not (*the night sky*).

UV STABILIZED, IMPACT RESISTANT LENSING

Minimal light attenuation from LED to target.

RELUME HIGH OUTPUT LED STREET LIGHT SPECIFICATIONS

The Relume model numbers R-20, R-30 and R-40 High Output LED Street Light products are cut-off rated LED luminaires for mounting heights of between 20, 30, and 40 feet. The High Output LEDs range from 3,000 to 8,000 on the Kelvin temperature scale and are rated for a minimum of 70,000 hours of continuous operation at ambient temperatures from -40°F (-40°C) to 122°F (+50°C). The units are manufactured from aircraft grade 6061 Aluminum, finished with a TCI 9000 series powdercoat polyester and a UV inhibited, acrylic-ABS composite, thermo formed solar shield. Each LED module is individually sealed by a high impact, UV stabilized acrylic cover. This non yellowing, bonded acrylic lens provides unobstructed visibility while it protects against moisture and dust intrusion. The sealed optical modules are highly resistant to insects, vandals, and storm damage.

R-20, R-30, R-40 ORDERING

MODEL NUMBER	DESCRIPTION	WATTAGE	DISTRIBUTION	VOLTAGE
R-20	Recommended for 20 ft mounting heights	90W	Type III	120 Thru 277
R-30	Recommended for 30 ft mounting heights	120W	Type III	120 Thru 277
R-40	Recommended for 40 ft mounting heights	180W	Type III	120 Thru 277

FINISH: BR-Bronze, W-White, G-Grey. OC - Optional Color Paint

LED TYPE: Warm (3000-4000K), Cool (7000-8000K)

OPTIONS: PC - Photo control

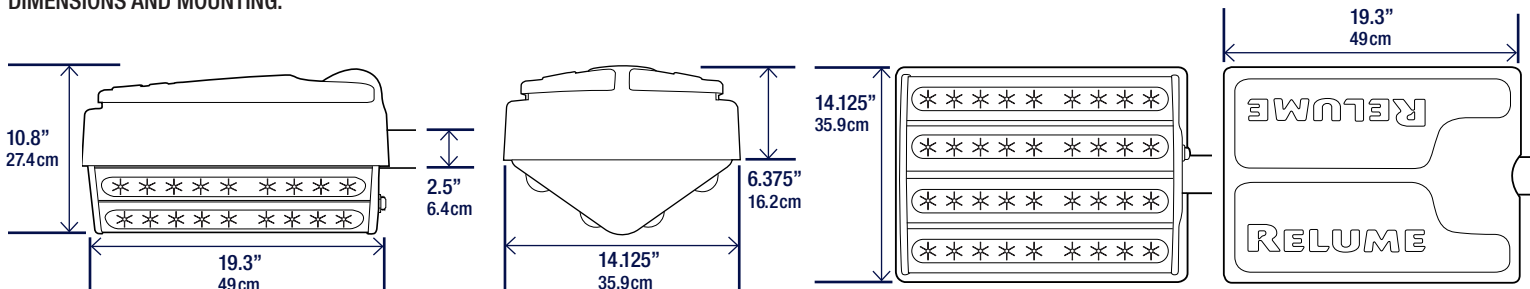
MODEL NUMBER	FINISH	LED TYPE	OPTIONS

SPECIFICATIONS: Relume High Output LED Street Light products are cut-off rated LED luminaires. The units are designed for maximum thermal dissipation of heat away from the LEDs. Limiting the temperature rise of the LED at the mounting position to under 45°F (25°C) during continuous operating conditions, insures projected life and luminous output.

LED LIGHT ENGINE CONSTRUCTION: The Relume High Output LED Light panel consists of a circuit board conductors comprised of an insulated aluminum substrate with a minimum thickness of 0.080 inch. Circuit conductors and LED attachment adhesive is no less than 90% pure silver to insure optimal electrical and thermal conductivity. The complete face of the LED Light engine panel is uniformly coated with a 2 part UV stabilized urethane resin, no thinner than 0.002 inch (dry) to adequately protect the Light engine from moisture and corrosion meeting GM4901 paint specifications.

LED LIGHT COLOR/QUALITY: The High Output LEDs range from either 3,000 to 4,000 (warm) or 7,000 to 8,000 (cool) on the Kelvin temperature scale and are rated for a minimum of 70,000 hours of continuous operation at ambient temperatures from -40°F (-40°C) to 122°F (+50°C).

DIMENSIONS AND MOUNTING:



HOUSING: Aircraft Quality 6061 Aluminum is extruded to form the skeletal structure and thermal dissipation sink all in one. The unit is then capped with an acrylic-ABS composite, thermo formed solar shield limiting solar heating, preventing thermal degradation of the LED Light engine. A solar shield is attached with stainless steel push pin latches to provide easy tool-less access to the luminaires.

LENSES: Each LED module is protected by a High Impact, UV Stabilized, Sealed, and Non Yellowing Acrylic Lens sealed into place using a high compliance, memory retentive extruded silicone rubber for unobstructed visibility while protecting against moisture, dust, insects, vandals and storm damage while allowing for a Neighborhood friendly, closely defined optical beam pattern.

ELECTRICAL: Each power supply (driver) is UL class 2 compliant operating from a 60 HZ +/-3 HZ AC line over a voltage ranging from 95 volts to 280 volts. Each driver is an efficient switcher with a power factor of greater than 0.91 with an input current of less than 20% Total Harmonic Distortion (THD). Fluctuations of the line voltage have no visible effect on the luminous output. Each driver includes voltage surge protection to withstand high repetition noise transients while meeting emission limits as set forth by the FCC Title 47, Subpart B, Section 15.

TERMINAL BLOCKS AND WIRING: All wiring and terminal blocks conform to requirements set forth in Section 13.02 of the ITE Publication: Equipment and Material Standards, Chapter 2 (Vehicle Traffic Control Signal Heads).

ENVIRONMENTAL: All Relume Light engines fully comply with the Restriction of Hazardous Substances Directive (RoHS) adopted in February 2003 by the European Union.

QUALITY ASSURANCE: All Relume Light engines have been independently tested and passed NEMA environmental test A615-2, A615-3, A615-4, A615-5, A615-6, A615-7, UL, CSA and FCC regulations. In production, each Light engine panel is burned-in for a 24 hour period and certified for compliance by Relume internal QA process. A quality control tracking label including date of manufacture is mounted on the inside of the LED Light engine panel.



For more information, visit www.lumecon.com or call toll free 877 564-3133