

Efficient
Earth-friendly
Cost-effective
Energy saving
LED Lighting

Presented by:

EcoLight LED Systems
CV Energy & Water Technologies

LED Lighting saves energy (2010 U.S. DOE Study)

US DOE Priority -- LED Commercialization

2030 LED annual energy savings!

- 190 terawatt-hours, or 24 OUC Stanton power plants (1,000 MW electric)
- \$15 billion in energy savings

LED Lighting saves energy (2010 U.S. DOE Study)

- Enough energy saved to illuminate >95 million U.S. homes.
- 2010–2030, cumulative energy savings are estimated at 1,488 terawatt-hours --
- Approximately \$120 billion at today's energy prices.

LED Lighting is Earth-friendly (2010 U.S. DOE Study)

- 2030 - reduced greenhouse gas emissions = 31.4 million metric tons of carbon
- 2010-2030 - reduced greenhouse gas emissions = 246 million metric tons of carbon
- LED lighting produces no UV radiation, uses no hazardous materials (mercury, etc.)

LED Lighting is Cost-effective

- Typical payback period 2 – 4 years
- “Persistent, reliable energy savings”
(PG&E,2010)
- Cost-savings accumulate (up to 100,000 hr. operating life)
- 80-90% reduction in maintenance costs
- “Instant On” = no wasted energy
- 90% less heat = 30% HVAC reduction

LED Lighting is Efficient

- LED's are directional – no wasted light, and no light pollution (up light)
- More delivered light on task & workspace
- Improved workforce productivity (no flicker, no buzz, no UV, SOS, etc.)

CV Energy Tech LED's:

- Designed for both interior and exterior applications in all commercial and residential, industrial, offices, schools, hospitals.... In short anywhere that light is required!
- CV LED's are ***guaranteed for 50,000*** hours, the rest including housing for 5 years
- Low junction point temperature = 100,000 hrs useful operating life
- UL, CSA, CE and RoHS – certified
- LEED compliant



**ENERGY & WATER
TECHNOLOGIES**
Technologies Today for Tomorrow

Energy Efficient
72W-216W
= 400 up to 1000W Traditional
Street Lamp

Environmentally Friendly
Lifetime 100,000 Hrs +
Lifetime

LED Street Light

Application

Replacement for metal halogen and high pressure sodium lamps. Perfect for highway lighting, parks, playing fields, city streets, industrial facilities, convention halls, factories and construction. Available in many different configurations to suit your individual needs. Energy efficient, environmentally friendly and LEED compliant.



LED Street Light	72W	144W	216W
Product Code:	EPL3X24W6K	EPL3X48W6K	EPL3X72W6K
Dimensions:	451 x 403 x 114mm	597 x 403 x 114mm	717 x 403 x 114mm
Colour:	6000K	6000K	6000K
CRI:	85Ra	85Ra	85Ra
LED Amount:	72	144	216
LED Type:	Licensed LED Chips	Licensed LED Chips	Licensed LED Chips
Lumen:	4,015LM	8,448LM	12,767LM
Voltage:	AC85-240V	AC85-240V	AC85-240V
Watts:	72W	144W	216W
Material:	Aluminum Alloy Body	Aluminum Alloy Body	Aluminum Alloy Body
Lifetime :	100,000 Hours +	100,000 Hours +	100,000 Hours +
Warranty:	5 Years	5 Years	5 Years
Certificates	CE & RoHS, CSA/UL	CE & RoHS, CSA/UL	CE & RoHS, CSA/UL



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Energy Efficient
48W-144W
= 150 up to 500W
Traditional lamp

Environmentally Friendly
Lifetime 100,000 Hrs +
Lifetime

MULEII Multi-Use Utility Light

Application

Replacement for metal halogen and high pressure sodium lamps. Perfect for parking lots, parks, walkways, tunnels, signage, security, mines and factories. High bay option available. Energy efficient, environmentally friendly and LEED compliant.



MULEII	48W	96W	144W
Product Code:	EPL2X24W6K	EPL2X48W6K	EPL2X72W6K
Dimensions:	401 x 279 x 101mm	565 x 279 x 101mm	717 x 403 x 114mm
Colour:	6000K	6000K	6000K
CRI:	85Ra	85Ra	85Ra
LED Amount:	48	96	144
LED Type:	Licensed LED Chips	Licensed LED Chips	Licensed LED Chips
Lumen:	2,618LM	4,944LM	8,448LM
Voltage:	AC85-240V	AC85-240V	AC85-240V
Watts:	72W	96W	144W
Material:	Aluminum Alloy Body	Aluminum Alloy Body	Aluminum Alloy Body
Lifetime :	100,000 Hours +	100,000 Hours +	100,000 Hours +
Warranty:	5 Years	5 Years	5 Years
Certificates	CE & RoHS, CSA/UL	CE & RoHS, CSA/UL	CE & RoHS, CSA/UL

Energy Efficient
24W-144W
= 150W Up to 500W
Traditional Lamp

Environmentally Friendly
Lifetime 100,000 Hrs +
Lifetime

LED Wall Pack

Application

Replacement for metal halogen and high pressure sodium lamps. Perfect for wall wash, parking lots, parks, walkways, tunnels, signage, security, mines, and factories. Energy efficient, environmentally friendly, and LEED compliant.



Narrow Body

24W

48W

72W

Wide Body

48W

96W

144W

Product Code:	ELWP1X24W6K	ELWP1X48W6K	ELWP1X72W6K	EWPW1X48W6K	EWPW1X96W6K	EWPW1X144W6K
Dimensions:	482 X 236 X 101mm	610 X 236 X 101mm	730 X 236 X 101mm	525 X 241 X 101mm	452 X 241 X 101mm	572 X 241 X 101mm
Colour:	60000K	60000K	60000K	60000K	60000K	60000K
CRI:	85Ra	85Ra	85Ra	85Ra	85Ra	85Ra
LED Amount:	24	48	72	48	96	144
LED Type:	Licensed LED Chips	Licensed LED Chips	Licensed LED Chips	Licensed LED Chips	Licensed LED Chips	Licensed LED Chips
Lumen:	2000LM	2618LM	4015LM	2618LM	4944LM	8448LM
Voltage:	AC85-240V	AC85-240V	AC85-240V	AC85-240V	AC85-240V	AC85-240V
Watts:	24W	48W	72W	48W	96W	144W
Material:	Aluminum Alloy Body	Aluminum Alloy Body	Aluminum Alloy Body	Aluminum Alloy Body	Aluminum Alloy Body	Aluminum Alloy Body
Lifetime :	100,000 Hours +	100,000 Hours +	100,000 Hours +	100,000 Hours +	100,000 Hours +	100,000 Hours +
Warranty:	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years
Certificates:	CE & RoHS, CSA/UL	CE & RoHS, CSA/UL	CE & RoHS, CSA/UL	CE & RoHS, CSA/UL	CE & RoHS, CSA/UL	CE & RoHS, CSA/UL
Packaging:	White Box	White Box	White Box	White Box	White Box	White Box



Energy Efficient
18W
 = 43W Fluorescent Lamp

Environmentally Friendly
 Lifetime 100,000 Hrs +
 Lifetime

LED Tube Light

Application

Used in offices, supermarkets, refrigeration units, factories, subway stations, warehouses, hotels, restaurants, stores, banks, etc. Replaces conventional fluorescent lamps or sodium lamps. Energy efficient, environmentally friendly and LEED compliant.



Complete Fixture
 1'X 4', 2'X 4', 2'X 2', 1'X 8', 2'X 8' Fixture
 Single Tube Fixture
 Double Tube Shop Light Fixture
 Retrofit Kit Available

LED Tube Light	18W
Product Code:	ELT1X18W3K/6K
Dimensions:	T10 x 1.2M
Colour:	W.W. 4400-4800K C.W. 6000-7000K
CRI:	85Ra
LED Amount:	DIP342
LED Type:	Licensed LED Chips
Lumen:	1400LM
Voltage:	AC110-130V AC200-240V
Watts:	18W
Material:	Metal & Plastic
Lifetime :	100,000 Hours +
Warranty:	5 Years
Certificates	CE & RoHS, CSA/UL



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Energy Efficient
3W/5W/7W/9W/12W
= 40W/60W/80W/100W/150W
Incandescent bulb

Environmentally Friendly
Lifetime 100,000 Hrs +
Lifetime

LED Light Bulbs

Application

Direct replacement of traditional bulbs.
Illumination and decoration at home and public
areas. Suitable for commercial buildings, homes,
restaurants, hotels boardrooms, table lamps,
garden lamps, etc. Energy efficient, environmentally
friendly, and LEED compliant.



LED Light Bulb	3W	5W	7W	9W	12W
Product Code:	ELBM163W4K/6K	ELB5W4K/6K	ELB7W4K/6K	ELB9W4K/6K	ELB12W4K/6K
Dimensions:	H65 X D45mm	H120 X D42 mm	H135 X D75.5mm	H130 X D93mm	H136 X D122mm
Colour:	W.W. 2800-4500K C.W. 6000-7000K	W.W. 2800-4500K C.W. 6000-7000K	W.W. 2800-4500K C.W. 6000-7000K	W.W. 2800-4500K C.W. 6000-7000K	W.W. 2800-4500K C.W. 6000-7000K
CRI:	85Ra	65-85Ra	65-85Ra	65-85Ra	65-85Ra
LED Amount:	3	5	7	9	12
LED Type:	Licensed LED Chips	Licensed LED Chips	Licensed LED Chips	Licensed LED Chips	Licensed LED Chips
Lumen:	180LM	260LM	350LM	540LM	680LM
Voltage:	12VAC DC	AC85-260V	AC85-265V	AC100-240V	AC100-240V
Watts:	3W	5W	7W	9W	12W
Equivalent to:	20W MR16 bulb	60W Incandescent bulb	80W Incandescent bulb	100W Incandescent bulb	150W Incandescent bulb
Lifetime :	50,000 Hours +	50,000 Hours +	50,000 Hours +	50,000 Hours +	50,000 Hours +
Warranty:	3 Years	3 Years	3 Years	3 Years	3 Years
Certificates:	CE & RoHS, CSA/UL	CE & RoHS, CSA/UL	CE & RoHS, CSA/UL	CE & RoHS, CSA/UL	CE & RoHS, CSA/UL
Packaging:	White Box	White Box	White Box	White Box	White Box

CV Energy Tech Projects

City of Sault Ste Marie – Street Lighting

CP Rail – Main Yard Lighting

University of Guelph – Exterior and Interior Lighting

Town of Markham – Interior Lighting

VIA Rail – Platform Lighting

Algoma Steel – Exterior and Interior Lighting

Sask Power Utility – Street Lighting

Potash Company – Exterior and Interior Lighting

Cadillac Fairview Malls – Exterior and Interior Lighting

White Rock Properties – Exterior and Interior Lighting