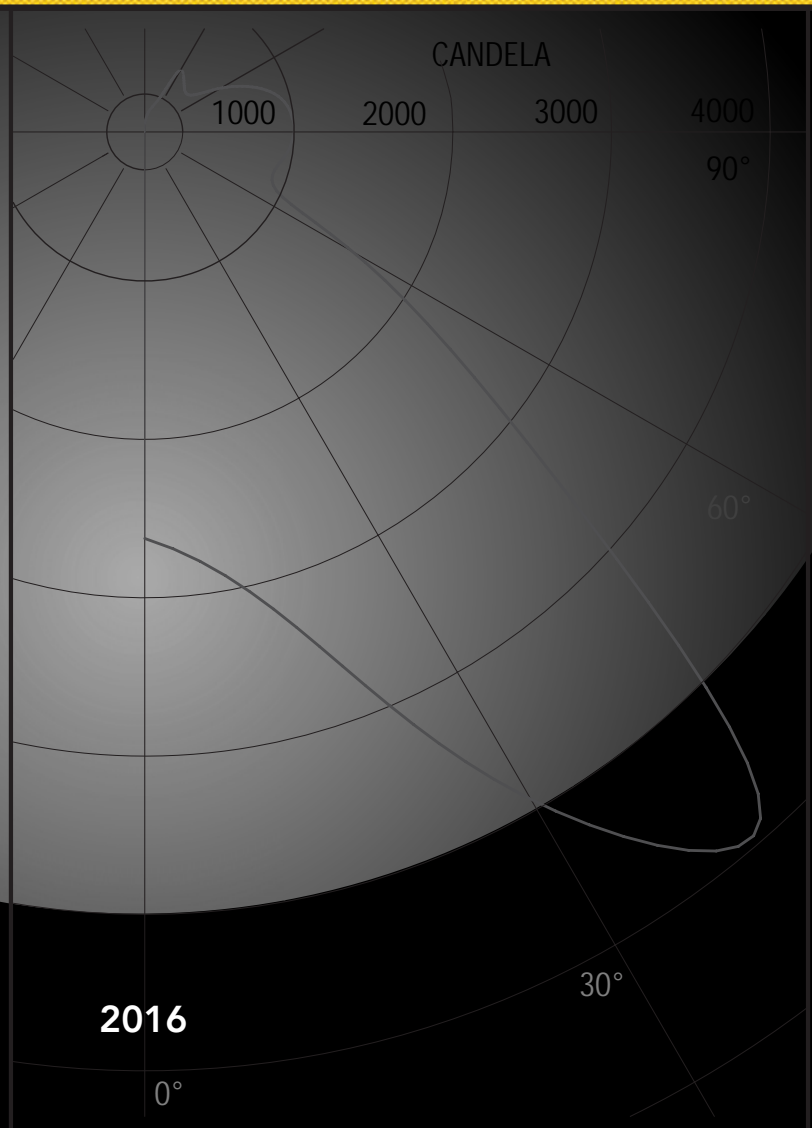




LIGHTING

*Est./Eta. 1983*

*See What's Possible*



## **LED LUMINAIRES**

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# LED E-CONOMY • HIGHBAY

Traditional Look with Uplight Performance



Powered by



**PRISMATIC REFRACTOR WITH UPLIGHT**  
16" - 19" - 22"  
Up to 22,000lms

## BENEFITS

- Maintenance-free, robust luminaire for commercial and retail environments
- The Herquled™ LED bulb is easily changed at the end of its life, or when upgraded
- Can last decades, with only minimal maintenance during the first 80,000 to 100,000 hours of usage (lamp life) - more than 10 years
- 100% downlight or 15% uplight choices
- Substantial maintenance savings on high ceilings, hard-to-reach areas
- Efficacy exceeds 110 Lumens per Watt @ CRI83
- Housing material: die-cast aluminum, powder coated RAL9001 white
- Housing can be finished in any other RAL color when specified
- Optional bottom clear or conical lens, or acrylic diffuser
- NSF rated materials and components, UL94 5VA flame resistance
- LED L70 life exceeds 90,000 hours as per Energy Star TM-21 evaluations
- Auxillary SPD min. 3kV recommended to be installed on the supply line
- For ambient temperatures -40°C/40°F to max. +45°C/113°F
- Listed for dry and damp locations
- Max. weight 11kg/ 25lbs
- Ten year limited warranty

## PRODUCT AND DIMENSIONS

Save \$400 yearly by switching from HID to LED\*

Payback less than one year\*\*

**Save \$4,000 over the life of the lamp in this fixture**



**-RN option:** Without reflector  
Max. **18,600lms** / 160W



**-R22-U15-CA option:** With 22" prismatic refractor with uplight and bottom conical lens.  
Up to **21,800lms** / 165W.

\* Calculated in 24/7 operation and cost of energy \$0.15/kWh

\*\* After Government rebates

## SPECIFICATIONS

- Popular Model: [SE-HQV-18K-850-R16-U15](#)

### SE-HQV-

LUMENS	CCT	REFLECTOR	UPLIGHT	BOTTOM LENS	CORD	INPUT VOLTAGE
11K - 10600 (80W)	830 - 3000 Kelvin	RN - none	empty - none	empty - none	empty - 4-ft	empty - 90-310VAC
15K - 14800 (120W)	841 - 4100 Kelvin	R16 - 16"	U15 - 15%	CA - conical Acrylic*	6 - 6ft	3 - 347VAC
18K - 18600 (160W)*	850 - 5000 Kelvin	R19 - 19"		DF - 92% diffuser*	8 - 8ft	4 - 480VAC
22K - 21800 (165W)*	864 - 6400 Kelvin	R22 - 22"				

\*Only with 22" reflector, open. 22KUses HE-HQP-22K lamp.

\* Only with 19" and 22", up to 130W

PROJECT REFERENCE:

Type:

Qty:

Date:



With the start of 2016, we are introducing a new suite of exciting high power plug-and-play LED replacement lamps.

Herquled: The *simplest* way to upgrade to LEDs while keeping your existing light fixtures.

## LED HERQULED • HIGH POWER LAMP

Savings • Performance • 100,000 hour life • Budget Friendly



**NICHIA**  
Max. 18,600lm CRI>85  
Datasheet on page 24.

## The 21-st Century High Bay Solution

### EACH HERQULED CAN SAVE UP TO \$4,000\*

- **Economically Smart**

The Herquled lamp boasts low energy consumption - 30% of an equivalent Metal Halide or Sodium Discharge lamp - as well as high luminosity, compact design, and low maintenance requirements. L70 LED life and driver life exceed 100,000 hours.

- **Substantial R.O.I. Cash Generating Solution**

Unlike other LED highbay products, which can take years to save enough money to pay for themselves, Herquled can pay for itself in a matter of months. The savings incurred add up to over \$4,000 over its lifetime, more than twenty times the lamp's cost after utility rebates are applied.

- **Environmentally Friendly**

Free of heavy metals or harmful substances, Herquled follows the RoHS (Restriction of Hazardous Substances). All components are 100% recyclable.

### BEFORE LEAVING THE PRODUCTION LINE HERQULED LAMPS ARE INDIVIDUALLY HAND-TESTED

Each aspect of the Herquled lamp is designed based on the needs of the modern facility, including light quality, efficiency, ease of use, and longevity. Herquled lamps are an evolution in LEDs, incorporating the latest technology into an industrial, cost-effective package.

- **ISO-Certified Manufacturing**

Each Herquled lamp is manufactured in an ISO-certified facility, with strict quality control and robust testing standards.

- **Every Piece is Hand-Verified for Compliance to Specification**

Each Herquled lamp is rigidly tested and burned in for at least 100 hours before being shipped out.

- **Rigorous Quality Assurance (Q.A.)**

Each production piece is tested to verify it meets the production standard for eight parameters: light output, energy efficiency, CCT color temperature, CRI color rendition, power factor, total harmonic distortion, rate of lumen depreciation, drop test and overall structural integrity.

### 90 DAY FREE TRIAL, FIVE YEARS BUMPER-TO-BUMPER WARRANTY

As part of Herquled's unconditional customer satisfaction guarantee, we offer a 90-day risk-free trial and back the product with a five year, bumper-to-bumper warranty. On-site warranty service is available for a small premium (North America only).

Energy cost \$0.15/kWh



# LED GYMSTAR • HIGHBAY

Minimum Glare and Low UGR *Increase Your Comfort*



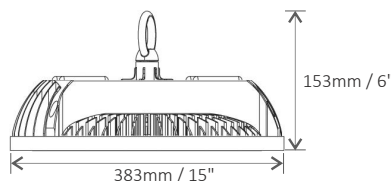
**ZERO GLARE WITH UPLIGHT**

## BENEFITS

- Low UGR, maintenance-free luminaire for commercial and retail
- Specifically designed for group exercise and other sports facilities
- Reduced glare: oversized 28" diffuser masks LEDs from direct view
- LEDs are protected with Conformal Coating
- Housing material: die-cast aluminum, powder coated RAL9003 white
- Housing can be finished in any other RAL color when specified
- NSF rated materials and components, UL94 5VA flame resistance
- LED L70 life exceeds 50,000 hours as per Energy Star TM-21 evaluations
- Drivers can be up to 300 feet remotely installed for high amb. temper.
- Auxillary SPD min. 3kV recommended to be installed on the supply line
- For ambient temperatures -40°C/40F to max. +45°C/113F
- Listed for dry and damp locations
- Max. weight 17kg/ 39lbs
- Ten year limited warranty

## PRODUCT AND DIMENSIONS

The GYMSTAR™ LED High Bay offers an unmatched combination of efficiency, long maintenance-free life and low glare light to attractively illuminate large interior spaces such as health clubs, gyms, hockey arenas, multipurpose rooms in schools, and retail spaces. A key feature of the GYMSTAR™ is the ventilated, patent-pending low glare LED light optical system. Often in large interior spaces, traditional high bays create a "cave" effect or produce highly objectionable glare. The luminaire's unique optical system mixes the light of all LEDs to create consistent, low glare light with a smooth, even distribution and a CRI of 85. **Oversized 28" (700mm) refractor/diffuser optics**, exclusive in the industry, with 20% uplight component deliver well-balanced illumination of any space.



## SPECIFICATIONS

- Popular Model: [SE-GL-160-841-U-C3-R26-DF](#)

### SE-GL-

#### WATTS

120 - 14600lm  
160 - 17200lm

#### CCT

830 - 3000 Kelvin  
841 - 4100 Kelvin  
850 - 5000 Kelvin  
864 - 6400 Kelvin

#### VOLTAGE

U - 120-277V  
3 - 347V

### -C3-R26-

#### 30" BOTTOM RING

empty - none  
R - translucent red  
B - translucent blue  
G - translucent green  
Y - translucent yellow  
P - translucent purple  
C - custom specification

#### OPTIONAL

DF - SoftTech™ diffusing lens min. 92%  
CA - Clear Acrylic lens  
D1 - Dimming 0-10V  
OS - Occupancy Sensor  
WG - Wireguard  
GGS8 - 8' cord with inline Nema disconnect  
GGAn - aircraft hanging kit "n"-ft long

PROJECT REFERENCE:

Type:

Qty:

Date:

# LED SUPERSTAR • HIGHBAY

NSF/Food Safety Certified

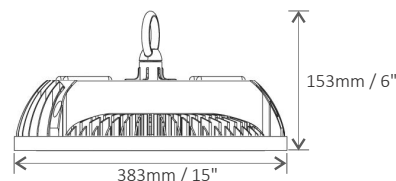


**15" IP65 INDUSTRIAL**

## BENEFITS

- Maintenance-free, robust luminaire for industrial environments
- Substantial maintenance savings on high ceilings, hard-to-reach areas
- Efficacy exceeds 110 Lumens per Watt at CRI83
- LEDs are protected with Conformal Coating
- Housing material: die-cast aluminum, powder coated RAL9001 white
- Housing can be finished in any other RAL color when specified
- Optional MicroShieldPlus® nanocoating antimicrobial layer that provides 24/7/365 of continuous protection
- Clear tempered glass bottom lens. Optional Acrylic diffuser
- NSF rated materials and components, UL94 5VA flame resistance
- LED L70 life exceeds 50,000 hours as per Energy Star TM-21 evaluations
- Drivers can be up to 300 feet remotely installed for high ambient installations
- Auxillary SPD min. 3kV recommended to be installed on the supply line
- For ambient temperatures -40°C/40°F to max. +45°C/113°F
- Listed for dry and damp locations
- 3-ft standard cord. Max. weight 9kg/19.8lbs
- Ten year limited warranty

## PRODUCT AND DIMENSIONS



## SPECIFICATIONS

- Popular Model: [SE-GL-160-841-U-C-3](#)

### SE-GL-

#### WATTS

120 - 14600lm  
160 - 19400lm

#### CCT

830 - 3000 Kelvin  
841 - 4100 Kelvin  
850 - 5000 Kelvin  
864 - 6400 Kelvin

#### VOLTAGE

U - 120-277V  
3 - 347V

### -C-3-

#### OPTIONAL

DF - SoftTech™ diffusing lens min. 92% transmission  
CA - Clear Acrylic lens  
D1 - Dimming 0-10V  
OS - Occupancy Sensor  
WG - Wireguard  
GGS8 - 8' cord with inline tool-less Nema disconnect  
GGAn - aircraft hanging kit "n"-ft long

RALnnnn - custom housing finish

PROJECT REFERENCE:

Type:

Qty:

Date:



SAVE  
ENERGY

LIGHTING

disano

# LED GHOST • HIGHBAY

Exclusive Design from Italy



FOR INDOOR OR OUTDOOR USE

IP43 IK08 degree of protection



Max. 21,800lm CRI>80



Powered by



## BENEFITS

- Maintenance-free, low UGR luminaire for commercial and retail
- For indoor or outdoor use. Dust proof, impact resistant, vandal resistant
- Available in 16" and 22" sizes
- Herquled™ LED light bulb is easily changed at the end of its life, or when upgraded to higher future efficacies
- Can last decades, with only minimal maintenance during first 80,000 to 100,000 hours of LED lamp life - more than 10 years
- Housing material: die-cast aluminum, powder coated RAL7001 silver grey
- Housing can be finished in any other RAL color specified
- NSF rated materials and components, UL94 5VA flame resistance
- LED L70 life exceeds 100,000 hours as per Energy Star TM-21 evaluations
- 8-ft standard cord, optional pendant-style canopy with hanging kit
- Auxillary SPD min. 3kV recommended to be installed on the supply line
- For ambient temperatures -40°C/40F to max. +35°C/95F
- Listed for dry and damp locations
- Max. weight 8.2kg/18lbs
- Ten year limited warranty

## PRODUCT AND DIMENSIONS

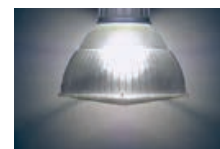
The GHOST™ LED High Bay offers an unmatched combination of unique architectural appearance, high efficiency, long life with only minimal maintenance and low glare light to attractively illuminate large interior spaces such as retail stores and showrooms, building atriums, health clubs, gyms and multipurpose rooms in schools. A unique feature of GHOST™ is the vandal-resistant Lexan™ PC dome reflector with specular metalized inner surface that gives the GHOST™ high bay that special semi-translucent look. When used with the SoftTech™ diffusing lens, GHOST™ mixes the light of all LEDs to create consistent, low glare light with a smooth, even distribution and a CRI of 85. Vacuum-metalized microsatint PC reflectors, exclusive in the industry, offer an interesting 5 - 20% controlled uplight component that delivers well-balanced illumination of any space.



A - 5% uplight



B - 10% uplight



C - 20% uplight

## SPECIFICATIONS

- Popular Model: [SE-GD-18K-850-R22-A-CP-GGA10](#)

### SE-GD-

#### LUMENS

11K - 10700 (80W)

16K - 15600 (120W)

18K - 18600 (160W)\*

22K - 21800 (165W)\*

#### CCT

830 - 3000 Kelvin

841 - 4100 Kelvin

850 - 5000 Kelvin

864 - 6400 Kelvin

#### REFLECTOR

R16 - 16"

R22 - 22"

#### UPLIGHT

A - 5%

B - 10%

C - 20%

#### INPUT VOLTAGE

empty - 90-310VAC

3 - 347VAC

#### OPTIONAL

DF - SoftTech™ diffusing lens min. 92%\*

CP - Conical PC lens\*

GGs8 - 8' cord with Nema disconnect

GGA - aircraft hanging kit "n"-ft long

AC - architectural canopy

RALnnnn - custom housing finish

\*Only with 22" reflector, open bottom

\* Only with 22", up to 120W

PROJECT REFERENCE:

Type:

Qty:

Date:



# LED GIGALED • HIGHBAY

Top-Notch Quality and Performance *Without a Hefty Price*



Max. 43,000lm  
CRI>80



**L70 LIFE**  
**> 90,000 HOURS**

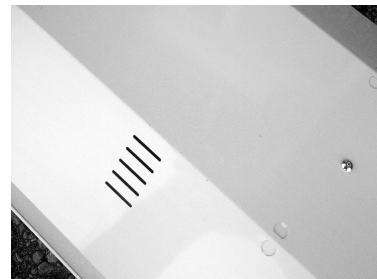
## BENEFITS

- Maintenance-free, robust luminaire for industrial environments
- Substantial maintenance savings on high ceilings, hard-to-reach areas
- Efficacy exceeds 120 Lumens per Watt @ CRI83
- LEDs are protected with Conformal Coating
- Housing material: code gauge prepainted white steel sheet
- Optional Acrylic or PC lens in hinged steel frame, with tool-less latches
- NSF rated materials and components, UL94 5VA flame resistance
- LED L70 life exceeds 90,000 hours as per Energy Star TM-21 evaluations
- Driver life exceeds 90,000 hours at max. ambient temperatures 25°C/77°F
- Drivers can be up to 300 feet remotely installed for high ambient installations
- Auxiliary SPD min. 3kV recommended to be installed on the supply line
- For ambient temperatures -40 to +55°C/130F - open luminaire  
Max. +45°C/113F when enclosed with lens
- Listed for dry and damp locations
- Ten year limited warranty

## PRODUCT AND DIMENSIONS



Easy power connection without opening the light fixture



Over fifty ventilation slots keep LED and drivers running well below component's temperature limits

	M.O.L. mm / in	Dimensions W mm / in	H mm / in	Weight kg / lbs
160W	1232/48.5	400/15.75	7.8/17.2	7.8/17.2
240W	1232/48.5	400/15.75	8.8/19.4	8.8/19.4
320W and 360W (tandem)	2464/97.0	400/15.75	15.6/34.4.2	15.6/39.4

## SPECIFICATIONS

- Popular Model: [SE-GL-160-841-U-C6-DF](#)

### SE-GL-

#### WATTS

160 - 19500lm  
240 - 28300lm  
320 - 39000lm  
360 - 43000lm

#### CCT

830 - 3000 Kelvin  
841 - 4100 Kelvin  
850 - 5000 Kelvin  
864 - 6400 Kelvin

#### VOLTAGE

U - 120-277V  
3 - 347V

#### CORD

Empty - none  
C4 - 4-ft  
C6 - 6-ft

#### OPTIONAL

**DF** - SoftTech™ diffusing lens min. 92% tran.  
**CA** - Clear Acrylic lens      **PC** - Clear Lexan™ lens 0.125"  
**D1** - Dimming 1-10V  
**OS** - Occupancy Sensor  
**WG** - Wireguard  
**GGS8** - 8' cord with tool-less inline Nema disconnect  
**GGA** - aircraft hanging kit "n"-ft long

PROJECT REFERENCE:

Type

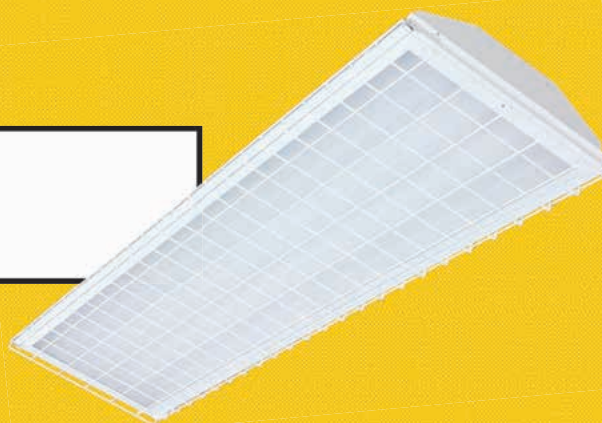
Qty:

Date:



# LED GIGALED G • GYM RATED

Literally *Indestructible*



Max. 43,000lm  
CRI>80



**L70 LIFE**  
> 90,000 HOURS

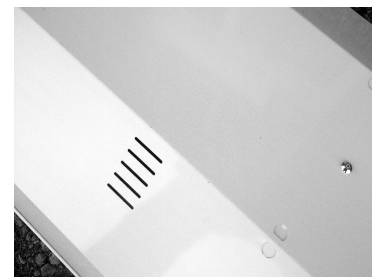
## BENEFITS

- Robust LED highbay especially designed for sport facilities
- Maintenance-free: substantial maintenance savings on high ceilings
- Efficacy exceeds 110 Lumens per Watt @ CRI83
- LEDs are protected with Conformal Coating, PC lens and wireguard
- Housing material: #22 prepainted white steel sheet
- 1/4" Lexan™ PC lens in hinged steel frame, with tool-less latches
- LED L70 life exceeds 90,000 hours as per Energy Star TM-21 evaluations
- Driver life exceeds 90,000 hours at max. ambient temp. 25°C/77F
- Drivers can be up to 300 feet remotely installed for high ambient installations
- Auxillary SPD min. 3kV recommended to be installed on the supply line
- For ambient temperatures -40 to max. +45°C/113F
- Listed for dry and damp locations
- Ten years limited warranty

## PRODUCT AND DIMENSIONS



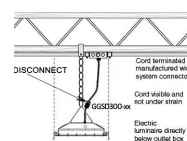
Easy power connection  
without opening the light fixture



Over fifty ventilation slots keep LED  
and drivers running well below  
component's temperature limits



**GGSD300-xx** tool-less maintenance re-connection kit. Saves time by eliminating the need for power shutdown and breaker lock-up during maintenance.



M.O.L. mm / in	Dimensions		Weight kg / lbs
	W mm / in	H mm / in	
1232/48.5	400/15.75	7.8/17.2	7.8/17.2
1232/48.5	400/15.75	8.8/19.4	8.8/19.4
2464/97.0	400/15.75	15.6/34.4	15.6/39.4

## SPECIFICATIONS

- Popular Model: [SE-GL-160-841-U-C6-CP-WG](#)

### SE-GL-

#### WATTS

160 - 19500lm  
240 - 28300lm  
320 - 39000lm  
360 - 43000lm

#### CCT

830 - 3000 Kelvin  
841 - 4100 Kelvin  
850 - 5000 Kelvin  
864 - 6400 Kelvin

#### VOLTAGE

U - 120-277V  
3 - 347V

#### CORD

Empty - none  
C4 - 4-ft  
C6 - 6-ft

#### OPTIONAL

DF - SoftTech™ diffusing lens min. 92% transmission  
CA - Clear Acrylic lens  
D1 - Dimming 1-10V  
OS - Occupancy Sensor  
WG - Wireguard  
GGS8 - 8' cord with tool-less Nema disconnect  
GGAn - aircraft hanging kit "n"-ft long

PROJECT REFERENCE:

Type:

Qty:

Date:

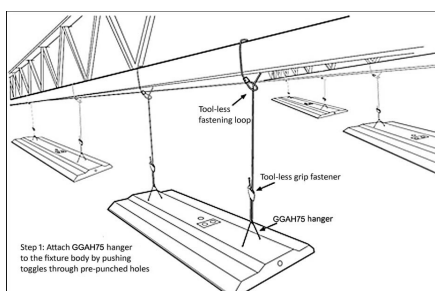
# LED GIGALED • ACCESSORIES

*Saving Your Time and Money*



## GGAH75-xx

**Tool-less highbay  
hanging kit**



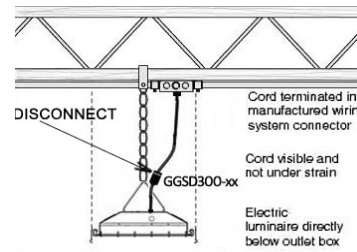
GGAH75-xx aircraft cable tool-less hanging kit. Standard length: 15 feet

### SPECIFICATION

Cat. Number	Dimensions		Max. weight load kg / lbs	Cable Material	Grip material	Input power port diameter mm / in
	M.O.L. mm / in	Diameter mm / in				
GGAH75-10	3050/120	1.6/ 1/16	34/75	Galvaniz. steel	Die cast AL	22/0.9
GGAH75-15	4570/180	1.6/ 1/16	34/75	Galvaniz. steel	Die cast AL	22/0.9
GGAH75-20	6100/240	1.6/ 1/16	34/75	Galvaniz. steel	Die cast AL	22/0.9

## GGSD300-xx

**Tool-less maintenance  
NEMA re-connection kit**  
Increases safety and saves time by eliminating the need for power shutdown and breaker lock-up during maintenance. Up to 600V.



GGSD-xx quick connect / disconnect pendant luminaire cord

### SPECIFICATION

Cat. Number	Dimensions		Max. Current load Amps	Cable Type Max. 300/600V	Max. weight load kg / lbs	Approvals
	M.O.L. mm / in	Wire Gauge				
GGSD300-4	1220/48	#16	13	SJTO	3.4/7.5	CSA/UL
GGSD300-8	2440/144	#16	13	SJTO	3.4/7.5	CSA/UL
GGSD300-12	3660/240	#16	13	SJTO	3.4/7.5	CSA/UL

347V/480V specification: Add suffix -3 after the cord length



**SAVE  
ENERGY**  
LIGHTING

# LED PARGADE N IP67 • VAPORTITE

Durable, Efficient, Easy to Install and *Budget Friendly*



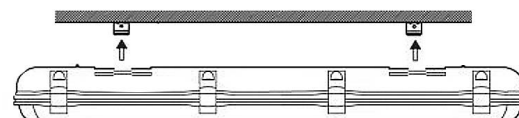
**L70 LIFE**  
> 90,000 HOURS

## BENEFITS

- Liquid- and dust-tight luminaire for demanding environments. Corrosion, fire and vandal resistant
- NSF, Food Sanitation certified by Intertek
- IP67 certified enclosure, compared to IP65 or IP66 ratings from competitor "B"
- Housing made from UV stabilized polycarbonate, with poured silicone gasket
- SoftTech 92% diffusing lens is made from impact resistant UV stabilized Sabic Lexan™ polycarbonate
- Latches: clear Lexan™ polycarbonate. Optional stainless steel latches
- Continuously poured white high density urethane gasket
- For Canada: high quality 347V direct input drivers, compared to magnetic step-down transformers used by competitor "B"
- Suitable for wall or ceiling mount. High pressure washable
- LED L70 life exceeds 90,000 hours as per DLC/Energy Star TM-21 evaluations
- Driver life exceeds 90,000 hours at max. ambient temperatures 25°C/77°F
- Drivers can be up to 300 feet remotely installed for high ambient temp. installations
- Permanently sealed tamper-resistant option eliminates latches or any need for additional tamper proof screws or hardware (specify with -C3 or -C6)
- Auxillary SPD min. 3kV recommended to be installed on the supply line
- Ideal for industrial, commercial and food industries
- For ambient temperatures -40 to +35°C/95F
- Ten year limited warranty

## PRODUCT AND DIMENSIONS

	Dimensions		Mounting spacing mm / in +/-2"
	M.O.L. mm / in	W mm / in	H mm / in
4-ft.	1262/49.7	94/3.7	96/3.8
			900/35.5



## SPECIFICATIONS

- Popular Model: [SE-IP67-4-14-140-841-U](#)

### SE-IP67-4-14-

#### LUMENS

110 - 4300lm  
140 - 5900lm

#### CCT

830 - 3000 Kelvin  
835 - 3500 Kelvin  
841 - 4100 Kelvin  
850 - 5000 Kelvin  
864 - 6400 Kelvin

#### VOLTAGE

U - 120-277V  
3 - 347V\*

#### CORD

Empty - none  
C3 - 3-ft  
C6 - 6-ft

#### OPTIONAL

D1 - 0-10V dimming  
OS - Occupancy sensor  
OT - Dimming occupancy sensor  
CT - Centered J-box mount  
SC - Stainless steel latches  
OD - UV, ozone, and all-chemicals resilient coating  
BK - Pair of 40° tilt wall mounting brackets

\* Direct 347V input drivers, not with step-down transformers

PROJECT REFERENCE:

Type:

Qty:

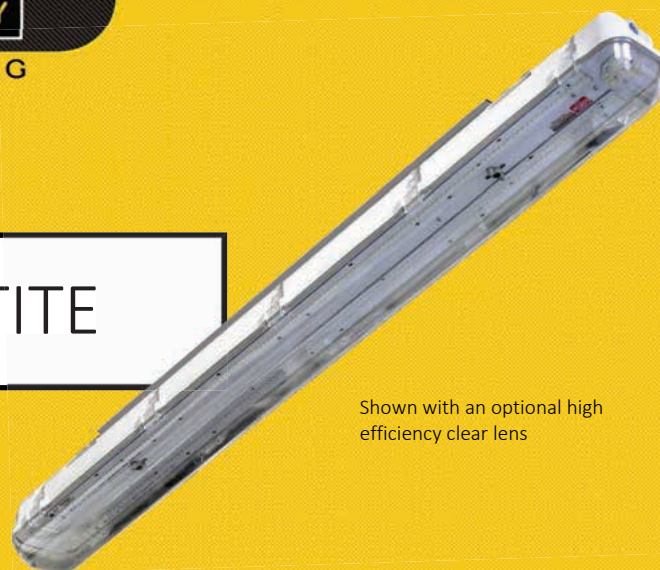
Date:



# LED PARGADE IP67 • VAPORTITE

Durable, Efficient, Easy to Install and *Readily Available\**

Shown with an optional high efficiency clear lens



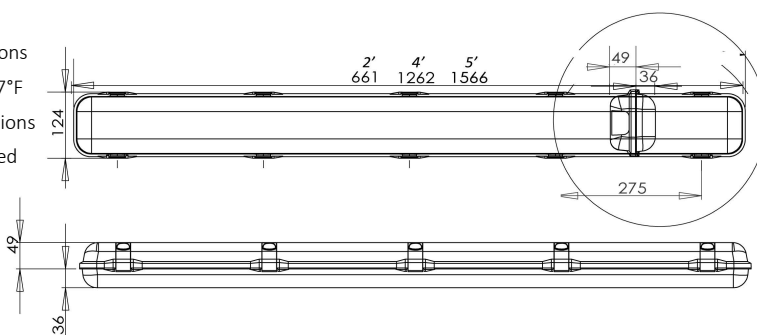
**L70 LIFE**  
**> 90,000 HOURS**

## BENEFITS

- Liquid- and dust-tight luminaire for demanding environments. Corrosion, fire and vandal resistant
- NSF, Food Sanitation certified by Intertek
- IP67 certified enclosure, compared to IP65 or IP66 ratings from competitor "B"
- Housing made from UV stabilized polycarbonate, with poured silicone gasket
- SoftTech 92% diffusing lens is made from impact resistant, UV stabilized Sabic Lexan™ polycarbonate
- Low loss optical diffusion is accomplished by liquid polycarbonate overspray during second stage of injection molding process
- Latches: clear Sabic Lexan™ polycarbonate. Optional stainless steel latches
- Continuously poured white high density urethane gasket.
- For Canada: high quality 347V direct input drivers, compared to magnetic step-down transformers used by competitor "B"
- Suitable for wall or ceiling mount. High pressure washable
- LED L70 life exceeds 90,000 hours as per DLC/Energy Star TM-21 evaluations
- Driver is life exceeds 90,000 hours at max. ambient temperatures 25°C/77°F
- Drivers can be up to 300 feet remotely installed for high ambient installations
- Permanently sealed tamper-resistant option eliminates latches or any need for additional tamper proof screws or hardware (specify with -C3 or -C6)
- Auxillary SPD min. 3kV recommended to be installed on the supply line
- Ideal for industrial, commercial and food industries
- For ambient temperatures -40 to +35°C/95F
- Ten year limited warranty

## PRODUCT AND DIMENSIONS

	M.O.L. mm / in	Dimensions W mm / in	H mm / in	Mounting spacing mm / in +/-2"
2-ft.	661/26.0	124/4.9	96/3.8	400/15.8
4-ft.	1262/49.7	124/4.9	96/3.8	900/35.5
5-ft.	1566/61.6	124/4.9	96/3.8	1000/39.4



## SPECIFICATIONS

- Popular Model: [SE-IP67-4-2-4-140-841-U](#)

### SE-IP67- -2-

LENGTH	LENGTH	LUMENS	CCT	VOLTAGE	CORD	OPTIONAL
2	2 - 26"	070 - 3000lm	830 - 3000 Kelvin	U - 120-277V	Empty - none	CL - Clear lens
4	4 - 49"	110 - 4100lm	835 - 3500 Kelvin	3 - 347V*	C3 - 3-ft	CT - Center J-box mount
5	5 - 62"	140 - 5900lm	841 - 4100 Kelvin		C6 - 6-ft	OS - Occupancy sensor
		175 - 7400lm	850 - 5000 Kelvin			OT - Dimming occupancy sensor
		210 - 8900lm	864 - 6400 Kelvin			SC - Stainless steel latches
						OD - All-chemicals resilient coating
						BK - Pair of 40° tilt wall mount brackets

\* Direct 347V input drivers, not with step-down transformers

PROJECT REFERENCE:

Type:

Qty:

Date:



# It's important to understand

...that not all LEDs are created equal. There are many ways to manufacture LEDs, and just as many ways to incorporate them into a fixture. LEDs are known for their long lives, but improperly designed LED fixtures may not last long. LEDs are also known for being an efficient light source, but some fixtures attempt to reduce costs by overdriving the LEDs, which significantly reduces their efficiency. To get all the advantages of using LEDs, fixtures must be designed properly and use quality LEDs.

## **THERMAL DISSIPATION SYSTEMS**

The greatest vulnerability of LEDs is heat. High heat levels cause diodes to break down, resulting in a loss of light output, and ultimately failure. With proper heat management, an LED fixture can easily last longer than 100,000 hours, but many fixtures have much shorter life spans – typically only 10,000 to 20,000 hours – much shorter than that of a traditional light source.

## **EFFICIENCY**

A good LED fixture now delivers over 110 lumens per watt. However, fixtures that use low-quality LEDs suffer from low energy efficiency. Some LED fixtures produce as few as 50 lumens per watt – less than a standard fluorescent.

## **RELIABILITY**

The reliability of luminaires is the sum of the reliability of the LEDs, driver, optical system, and reliability of connections and mechanical parts.

### **LEDs RELIABILITY**

The most vulnerable parts in luminaires are the LEDs. Epistar branded LEDs appear to be the least expensive LEDs on the market, which helps off-shore producers to drive prices down to sometimes unbelievable price levels. However, the most verifiable L<sub>70</sub> life independently tested lab reports that we were able to find on Epistar showed life spans of just over 35,000 hours. At 50,000 hours, the light loss of Epistar LEDs exceed 50%, which is unacceptable by today's standards. Some of the most reliable LEDs today come from manufacturers such as Nichia, Seoul, Philips, Cree, and Samsung. To maximize the longevity of its luminaires, Save Energy Lighting uses only LEDs produced by renowned first-tier brands.

### **DRIVER (power supply) RELIABILITY**

While inexpensive Meanwell drivers can be found in most imported fixtures, established firms such as Lithonia, Cooper Lighting, Zumtobel, Hubbell, and Save Energy Lighting would never consider using Meanwell. Drivers rated at a maximum 70°C case temperature are only appropriate in residential fixtures, and troffers used in air-conditioned spaces which are always cool. The quality drivers used by Save Energy Lighting can handle case temperatures as high as 90°C without compromising the driver's lifespan. This is essential for drivers used in commercial troffers, fully enclosed vaportite fixtures, and LED high bays, where luminaire ambient temperatures can exceed 60°C what can consequently increase driver case temperatures close to 90°C. In these conditions, lower rated drivers are almost guaranteed to fail short of their advertised lifespan. Although the driver manufacturer might provide free replacements under warranty, labor costs to repair these fixtures can be higher than the labor costs of the initial installation.

## **WARRANTY**

DesignLights Consortium (DLC) established a five year warranty as the minimum for LED light fixtures to qualify for rebates. Save Energy Lighting is one of few brands with such strong confidence in its products so as to offer up to 10-year warranties. Furthermore, Save Energy Lighting is the only LED light fixture manufacturer that also offers optional on-site warranty service. When defective, our technicians come and repair or replace the problematic fixture.

# LED CALLE • STREET LIGHTS

Top-Notch Quality and Performance *Without a Hefty Price*

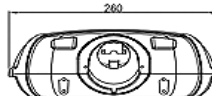
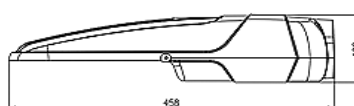


## BENEFITS

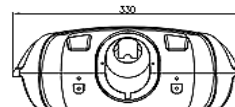
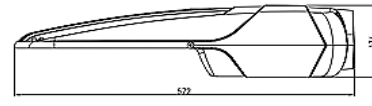
- Maintenance-free, robust 3rd generation LED streetlight
- Efficacy exceeds 120 Lumens per Watt @ CRI83
- LEDs are protected with Conformal Coating
- Tool-less access to wiring compartment and driver servicing
- LED L70 life >100,000 hours as per Energy Star TM-21 evaluations
- Meets CALTrans 611 Vibration testing
- Meets ANSI C136.31-2001, 3G bridge /overpass vibration standards
- Meets FCC Part 15 standards for conducted and radiated emissions
- Integral SPD 10kV protection to IEEE/ANSI C62.41.2 standard
- Housing: die-cast aluminum, RAL powder coated, tenon 2" IP to 2.5"
- Lens: UV stabilized Sabic Lexan® polycarbonate
- 7-prong NEMA C136-41 photocell receptacle
- For ambient temperatures -40 to +45°C/113F
- All internal component assemblies are rated IP66 per IEC 60529
- Listed for wet locations
- Ten year limited warranty

## PRODUCT AND DIMENSIONS

Designed from the ground up as a totally optimized LED street light and area lighting system, the Calle delivers market leading efficiency without sacrificing performance. Beyond substantial energy savings and savings from elimination of regular maintenance cycles, the Calle luminaire achieves better optical control with SlimOptic® Precision Delivery Lens™ optic than a traditional HID cobra head luminaire. The Calle street light is the optimum alternative to traditional street lighting or parking lot / security lighting, with better payback and better performance.



SE-L104/SE-L204 Series



SE-L304/SE-L404 Series

## SPECIFICATIONS

Cat. Number	LM	Watts	Efficacy LM/W	L70 life hours	IESNA distrib. Types	DLC QPL listed
SE-L104- 040-8xx-Tn	4900L	40W	122	50000	II., III., IV., V.	YES
SE-L104- 065-8xx-Tn*	7000L	65W	108	50000	II., III., IV., V.	YES
SE-L204- 080-8xx-Tn	9300L	80W	116	50000	II., III., IV., V.	YES
SE-L204- 100-8xx-Tn	10800L	100W	108	50000	II., III., IV., V.	YES
SE-L304- 120-8xx-Tn*	14200L	120W	119	50000	II., III., IV., V.	YES
SE-L404- 150-8xx-Tn*	18500L	150W	124	50000	II., III., IV., V.	YES
SE-L304- 180-8xx-Tn*	19950L	180W	110	50000	II., III., IV., V.	YES
SE-L404- 240-8xx-Tn*	26800L	240W	112	50000	II., III., IV., V.	YES

### Suffixes:

-8xx specify CCT:-830, -835, -841, -850, -856  
-Tn specify distribution Type: -TII, -TIII, -TIV, -TV  
-347V: add -3 for 347V. Only models with \*

-D1 dimming 1-10V

### Housing finishes:

-GR: grey RAL7038, -WH: white, -BK: black RAL9017,  
-BR: brown RAL8028, -CU1234: custom RAL paint code

PROJECT REFERENCE:

Type:

Qty:

Date:



**SAVE  
ENERGY**

LIGHTING

# LED LUKSUS 3D • TROFFER

Minimum Glare, Low UGR *Create Comfortable Spaces*



Max. 5,600lm  
CRI>80

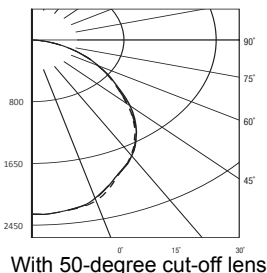


## Dual driver option:

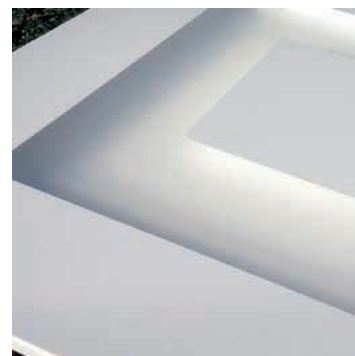
Independent dimming of centre and perimeter light engines

## BENEFITS

- New 2016 Advanced Troffer Design (ATD) meets DLC Premium
- High performance indirect troffer with 100 lm/W efficacy
- Indirect lighting troffer - LEDs are obstructed from direct view
- Dual-driver option can control inner and outer light engines separately
- Extremely low glare option with 50-degree angle cut-off lens
- Input voltage: 90-305 or 347VAC
- Advanced heat dissipation extends L70 life beyond 90,000 hours
- Dimmable down to 3% by Dali or 1-10V
- Ideal for offices, schools, hospitality and retail
- Ten year limited warranty (including driver)



## PRODUCT AND DIMENSIONS



## DIMENSIONS

	RECESSED	SURFACE
Length	23 3/4"	24"
Width	23 3/4"	24"
Depth	3"	3 1/4"



## SPECIFICATIONS

- Popular Model: [SE-LK3-2x2-4K-841-UNV](#)

### SE-LK3-2x2-

#### LUMENS

4K - 4300 LED  
6K - 5600 LED

#### GLARE CONTROL

empty - none  
CU - 50 degree cutoff

#### CCT

830 - 3000 Kelvin  
841 - 4100 Kelvin  
850 - 5000 Kelvin  
864 - 6400 Kelvin

#### DRIVER

empty - Standard  
DM - 1-10V Dimming  
DL - DALI Dimming  
DU - dual drivers

#### MOUNTING

empty - Recessed  
SF - Surface  
DR - Drywall  
SS - Suspended

#### VOLTAGE

UNV - 120-277V  
3 - 347V

PROJECT REFERENCE:

Type:

Qty:

Date:

# LED LYX 3D • TROFFER

Minimum Glare, Low UGR *Create Comfortable Spaces*



Max. 5,800lm  
CRI > 80

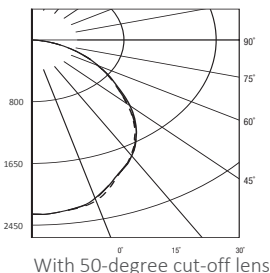


## Dual driver option:

Independent dimming of centre and perimeter light engines

## BENEFITS

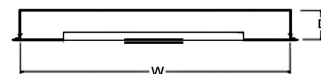
- New 2016 Advanced Troffer Design (ATD) meets DLC Premium
- High performance indirect troffer with 100 lm/W efficacy
- Indirect lighting troffer - LEDs are obstructed from direct view
- Dual-driver option can control inner and outer light engines separately
- Extremely low glare option with 50-degree angle cut-off lens
- Input voltage: 90-305 or 347VAC
- Advanced heat dissipation extends L70 life beyond 90,000 hours
- Dimmable down to 3% by Dali or 1-10V
- Ideal for offices, schools, hospitality and retail
- Ten year limited warranty (including driver)



## PRODUCT AND DIMENSIONS

### DIMENSIONS

	RECESSED	SURFACE
Length	23 3/4"	24"
Width	23 3/4"	24"
Depth	3"	3 1/4"



## SPECIFICATIONS

- Popular Model: [SE-LK3-2x2-4K-841-UNV](#)

### SE-LY3-2x2-

#### LUMENS

4K - 4500 LED  
6K - 5800 LED

#### GLARE CONTROL

empty - none  
CU - 50 degree cutoff

#### CCT

830 - 3000 Kelvin  
841 - 4100 Kelvin  
850 - 5000 Kelvin  
864 - 6400 Kelvin

#### DRIVER

empty - Standard  
DM - 0-10V Dimming  
DL - DALI Dimming  
DU - dual drivers

#### MOUNTING

empty - Recessed  
SF - Surface  
DR - Drywall  
SS - Suspended

#### VOLTAGE

empty - 120-277V  
3 - 347V

PROJECT REFERENCE:

Type:

Qty:

Date:



**SAVE  
ENERGY**

**LIGHTING**

# LED INDIR • TROFFER

Exclusive: Ultra-Low UGR *with Zero Glare*



Max. 4,800lm  
CRI>80

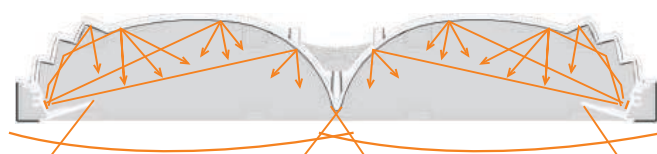


**ZERO GLARE**  
100% indirect lighting

## BENEFITS

- High performance indirect troffer with 93-98lm/W efficacy
- All LEDs are aimed upwards, hidden from a direct view
- Recessed, surface or "invisible support" pendant mounting system
- Input voltage: 90-305 or 347VAC
- Advanced heat dissipation extends L70 life beyond 50,000 hours
- Dimmable down to 3% by Dali or 1-10V
- Ideal for offices, schools, hospitality and retail spaces
- Ten year limited warranty (including driver)

## PRODUCT AND DIMENSIONS



All LED light output is reflected down from 98% white reflector



98% super-reflective  
white diffusing surface

## SPECIFICATIONS

- Popular Model: [SE-DO-2x2-4K--841](#)

### SE-IN-

SIZE	LUMENS	CCT	DRIVER	MOUNTING	VOLTAGE
1x4	4K - 3800 LED	830 - 3000 Kelvin	empty - Standard	empty - Recessed	empty - 120-277V
2x2	5K - 4800 LED*	835 - 3500 Kelvin	DM - 1-10V Dimming	SF - Surface	3 - 347V
2x4		841 - 4100 Kelvin	DL - DALI Dimming	DR - Drywall	
		850 - 5000 Kelvin		SS - Suspended	

\*Only 2x4

PROJECT REFERENCE:

Type:

Qty:

Date:

# LED INDIR • TROFFER

Exclusive: Ultra-Low UGR *with Zero Glare*



Max. 4,800lm  
CRI>80



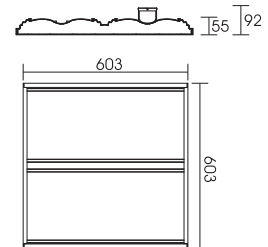
**ZERO GLARE**  
100% indirect lighting



SE-IN-2x2

### 2x2 INDIR TROFFER

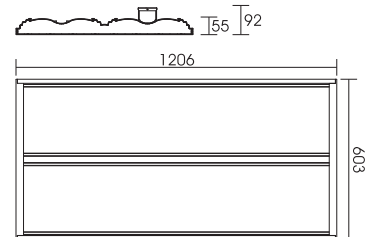
Power : 40W  
Voltage: 100-277V or 347V  
Lumen: 3700 lm (4000K)  
Efficacy: 93 lm/W  
CCT Optional: 2700K/3000K/4000K/5000K



SE-IN-2x4

### 2x4 INDIR TROFFER

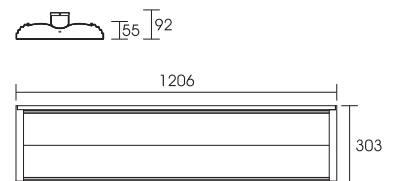
Power : 50W  
Voltage: 100-277V or 347V  
Lumen: 4800 lm (4000K)  
Efficacy: 96 lm/W  
CCT Optional: 2700K/3000K/4000K/5000K



SE-IN-1x4

### 1x4 INDIR TROFFER

Power : 40W  
Voltage: 100-277V or 347V  
Lumen: 3700 lm (4000K)  
Efficacy: 93 lm/W  
CCT Optional: 2700K/3000K/4000K/5000K

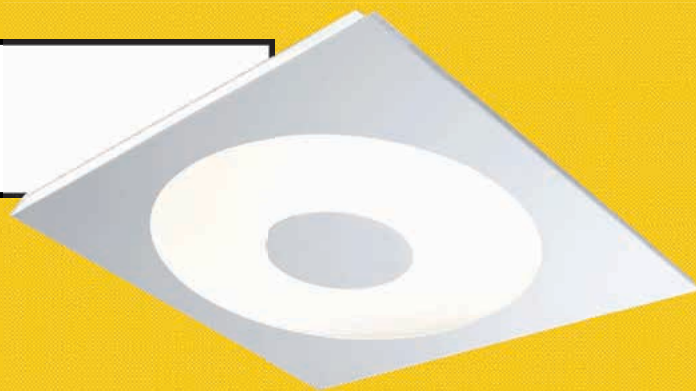




**SAVE  
ENERGY**

**LIGHTING**

# LED LUKSAJ • TROFFER



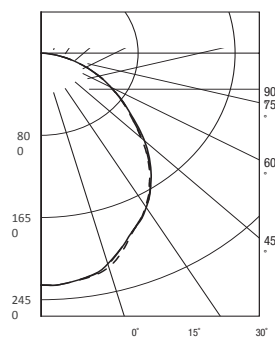
Max. 5,600lm  
CRI>80



## BENEFITS

- New 2016 Advanced Troffer Design (ATD) meets DLC Premium
- High performance indirect troffer with 100 lm/W efficacy
- Indirect lighting troffer - LEDs are obstructed from direct view
- Extremely low glare option with 50-degree angle cut-off lens
- Input voltage: 90-305 or 347VAC
- Advanced heat dissipation extends L70 life beyond 90,000 hours
- Dimmable down to 3% by Dali or 1-10V
- Ideal for offices, schools, hospitality and retail
- Ten year limited warranty (including driver)

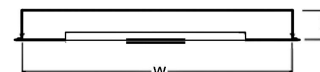
## PRODUCT AND DIMENSIONS



With 50-degree cut-off lens

### DIMENSIONS

	RECESSED	SURFACE
Length	23 3/4"	24"
Width	23 3/4"	24"
Depth	3"	3 1/4"



## SPECIFICATIONS

- Popular Model: [SE-LS-2x2-4K-841-UNV](#)

### SE-LS-2x2-

#### LUMENS

4K - 4300 LED  
6K - 5600 LED

#### GLARE CONTROL

empty - none  
CU - 50 degree cutoff

#### CCT

830 - 3000 Kelvin  
841 - 4100 Kelvin  
850 - 5000 Kelvin  
864 - 6400 Kelvin

#### DRIVER

empty - Standard  
DM - 0-10V Dimming  
DL - DALI Dimming

#### MOUNTING

empty - Recessed  
SF - Surface  
DR - Drywall  
SS - Suspended

#### VOLTAGE

empty - 120-277V  
3 - 347V

PROJECT REFERENCE:

Type:

Qty:

Date:

# LED ARC • TROFFER



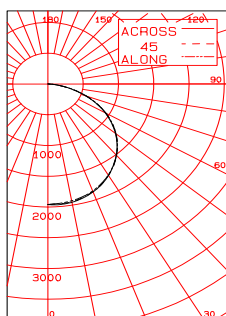
Max. 5,900lm  
CRI>80



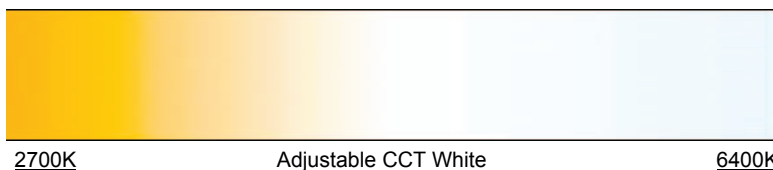
**TUNEABLE OPTION:**  
Continuous CCT adjustment 2700K - 6400K

## BENEFITS

- High performance with 120 lm/W efficacy
- Indirect lighting troffer - LEDs are obstructed from direct vision
- Optional remote CCT tuning 2700K-6400K, CRI85
- Input voltage: 90-305 or 347VAC
- Advanced heat dissipation extends L70 life beyond 90,000 hours
- Dimmable down to 3% by Dali or 1-10V
- Ideal for offices, schools, hospitality, and retail
- Ten year limited warranty (including driver)

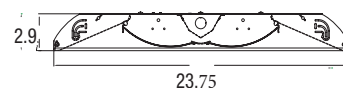


## PRODUCT AND DIMENSIONS



### DIMENSIONS

	2x2	2x4
Length	23 3/4"	47 3/4"
Width	23 3/4"	23 3/4"
Depth	2 7/8"	2 7/8"



## SPECIFICATIONS

- Popular Model: [SE-AR-2x2-4K--841](#)

### SE-AR-

#### SIZE

2x2  
2x4

#### LUMENS

4K - 4400 LED  
6K - 5900 LED

#### CCT

830 - 3000 Kelvin  
841 - 4100Kelvin  
850 - 5000 Kelvin  
864 - 6400 Kelvin  
TUN - tunable 2700-6400k

#### DRIVER

empty - Standard  
DM - 0-10V Dimming  
DL - DALI Dimming

#### MOUNTING

empty - Recessed  
SF - Surface  
DR - Drywall  
SS - Suspended

#### VOLTAGE

empty - 120-277V  
3 - 347V

PROJECT REFERENCE:

Type:

Qty:

Date:



# LED DOLOR • TROFFER



Max. 5,900lm  
CRI > 80



**TUNEABLE OPTION:**  
Continuous CCT adjustment 2700K - 6400K

## BENEFITS

- High performance with 120 lm/W efficacy
- Volumetric troffer - LEDs are obstructed from direct vision
- Optional remote CCT tuning 2700K-6400K, CRI85
- Input voltage: 90-305 or 347VAC
- Advanced heat dissipation extends L70 life beyond 90,000 hours
- Dimmable down to 3% by Dali or 1-10V
- Ideal for offices, schools, hospitality and retail
- Ten year limited warranty (including driver)

## PRODUCT AND DIMENSIONS

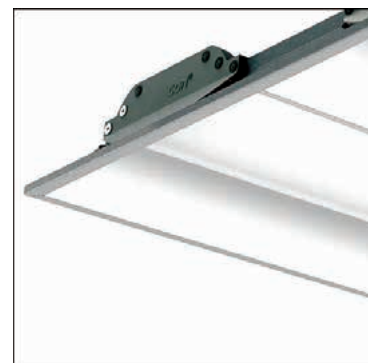


2700K

Adjustable CCT White

6400K

DIMENSIONS		
	2x2	2x4
Length	23 3/4"	47 3/4"
Width	23 3/4"	23 3/4"
Depth	2 7/8"	2 7/8"



## SPECIFICATIONS

- Popular Model: [SE-DO-2x2-4K--841](#)

### SE-DO-

SIZE	LUMENS	CCT	DRIVER	MOUNTING	VOLTAGE
2x2	4K - 4400 LED	830 - 3000 Kelvin	empty - Standard	empty - Recessed	empty - 120-277V
2x4	6K - 5900 LED	835 - 3500 Kelvin	DM - 0-10V Dimming	SF - Surface	3 - 347V
		841 - 4100 Kelvin	DL - DALI Dimming	DR - Drywall	
		850 - 5000 Kelvin		SS - Suspended	
		TUN - Tuneable			

PROJECT REFERENCE:

Type:

Qty:

Date:

# LED LITE • K12 TROFFER



Max. 9,900lm  
CRI>80



**L70 LIFE**  
**> 90,000 HOURS**

## BENEFITS

- Commercial static troffer
- Die-formed code-gauge housing with hinged lens frame
- High performance Paragon™ LED modules with 140 lm/W efficacy
- Advanced heat dissipation extends L70 life beyond 90,000 hours
- Familiar K12 pattern blends well in the ceiling with fluorescent troffers
- Input voltage: 90-305 or 347VAC
- Dimmable down to 3% by Dali or 1-10V
- For general commercial, institutional and retail use
- Ten years limited warranty (Including driver)

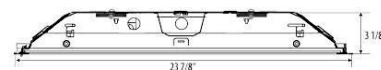
## PRODUCT AND DIMENSIONS



Troffers are driven by Paragon LM™ 94,000 hour life LED platform

### DIMENSIONS

	2x2	2x4
Length	23 3/4"	47 3/4"
Width	23 3/4"	23 3/4"
Depth	3 3/4"	3 3/4"



## SPECIFICATIONS

- Popular Model: [SE-K12-4K-841](#)

### SE-K12-

SIZE	LUMENS	GLARE CONTROL	CCT	DRIVER	MOUNTING	VOLTAGE
2x2	4K - 4300 (38W)	empty - none	830 - 3000 Kelvin	empty - Std.	empty - Recessed	empty - 120-277V
2x4	6K - 5900 (54W)	EC - chrome egg-crate	835 - 3500 Kelvin	DM - 0-10V Dim.	DR - Drywall	3 - 347V
	7K - 6800 (66W)	DF - SoftTech™	841 - 4100 Kelvin	DL - DALI Dim.		
	10K - 9900 (82W)	difusing lens with min. 92% light transmission	850 - 5000 Kelvin			
			864 - 6400 Kelvin			

PROJECT REFERENCE:

Type:

Qty:

Date:





## SAVE ENERGY LIGHTING INTRODUCES THE BENEFIT OF ADJUSTABLE COLOR TEMPERATURE LED LIGHT FIXTURES

With over 30 years of commercial lighting industry experience, and a deep understanding of addressing the needs of its customers, Save Energy Lighting, an experienced solutions provider who specializes in full-scale evaluations and retrofits utilizing LED lighting technology, announced the launch of tunable CCT light fixtures. Perhaps the most important advantage of tunable white light is its ability to enhance the user's experience. When programmed to emulate the changing colors and intensities of the natural daylighting cycle, tunable white LEDs can improve occupant mental health and productivity.

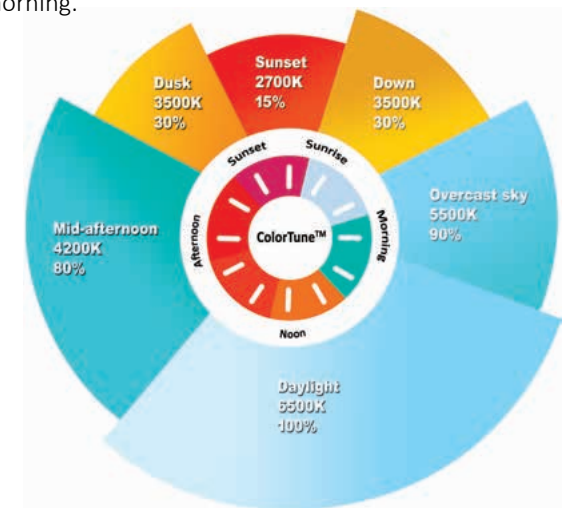
Tunable white light is a technology that enables users to adjust the color temperature of a lamp in real time. For LEDs, users modify the correlated color temperature (CCT) and intensity of the source with an input, such as a slider control or intelligent lighting management system. The range of ColorTune™ attainable color temperatures is wide: **2700K to 6400K**.

Decades of scientific research have made clear the effect of color temperature on human health, including its impact on our actions, mood, and performance. Excessive exposure to cool electric lights, including fluorescent light fixtures and smart devices, can throw off circadian rhythms and disrupt sleep/wake cycles, preventing people from performing at their best. As our knowledge expands, lighting is becoming personalized in order to deliver an optimal experience at any time of the day. People feel, work, and live best when the lighting in their environment is as close as possible in color temperature to that of natural lighting - cool during the day and warmer in the evening and early morning.

### ColorTune™

Now more than ever, people need greater control over the lighting they take for granted. Driven to find a solution to these issues, Save Energy Lighting has developed ColorTune, technology that shatters the boundaries of LED potential and is the first line of mainstream commercial light fixtures offering independent control of both color temperature and intensity.

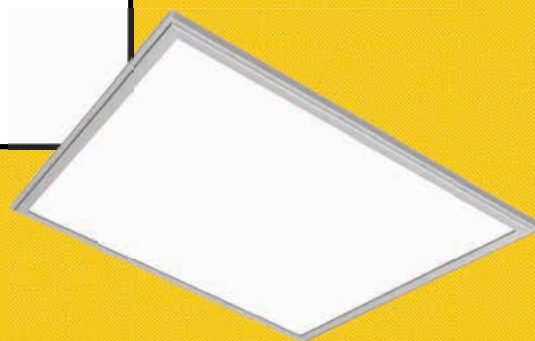
- ColorTune™ users are able to personalize the ambience by tuning white light over the broadest possible color temperature range — from candlelight-like 2700K to 6400K that's comparable to full-spectrum daylight, and control intensity from 100% down to 10% using either standard roomside dimmers or programmable control systems.



ColorTune mimics natural daylight color temperatures and intensities

- ColorTune™ boasts unprecedented color versatility, beamsread options, and output, while granting people and companies the control they desire over the lighting in their spaces – allowing them to adapt it to their commercial needs. With research linking light's spectrum to health outcomes, we've strived to harness the functionality and performance of LEDs to deliver every nuance of natural daylight knowing it has the potential to optimize health and even transform the way people perform, learn, and live.
- ColorTune™ mimics natural daylight color temperatures and intensity patterns that human biorhythms have been accustomed to for over 2 million years.
- ColorTune™ provides seamless lighting solutions for every aspect of life and for every type of commercial interior application — corporate, hospitality, healthcare, education and retail.

## LED FLUXIE • PANEL

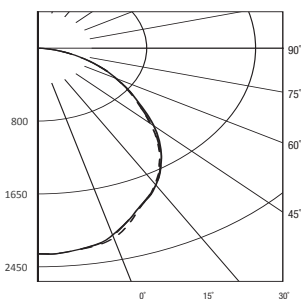


Max. 6,800lm  
CRI > 80



### BENEFITS

- New 2016 advanced LGP panel design meets DLC Premium
- High performance with 120 lm/W efficacy
- Thin LED panel fits in shallow plenum
- Extremely low glare option with 50-degree angle cut-off lens
- Input voltage: 90-305 or 347VAC
- Advanced heat dissipation extends L70 life beyond 90,000 hours
- Dimmable down to 3% by Dali or 1-10V
- Ideal for offices, schools, hospitality and retail
- Ten year limited warranty (Including driver)



With 50-degree cut-off lens

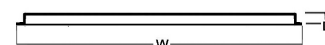
### PRODUCT AND DIMENSIONS

#### Comparison between laser-micropattern with top lens, and screen-printed LGP

	COMPETITION	SAVE ENERGY LIGHTING
Type	 - Light is diffusing throughout pass	 - More straight lighting than normal LGP
Optical profile		
Reflection Mechanism	 Bottom is screen-printed	 Top is 3-D extruded lens Bottom is laser-engraved

#### DIMENSIONS

	2x2	2x4
Length	23 3/4"	47 3/4"
Width	23 3/4"	23 3/4"
Depth	2"	2"



### SPECIFICATIONS

- Popular Model: [SE-FL-2x2-4K-841](#)

#### SE-FL-

SIZE	LUMENS	GLARE CONTROL	CCT	DRIVER	MOUNTING	VOLTAGE
2x2	4K - 4300 LED	empty - none	830 - 3000 Kelvin	empty - Std.	empty - Recessed	empty - 120-277V
2x4	5K - 5400 LED	CU - 50 degree cutoff	841 - 4100 Kelvin	DM - 0-10V Dim.	SF - Surface	3 - 347V
	7K - 6800 LED		850 - 5000 Kelvin	DL - DALI Dim.	DR - Drywall	
			864 - 6400 Kelvin		SS - Suspended	

PROJECT REFERENCE:

Type:

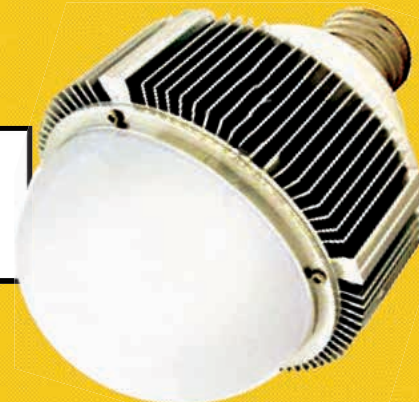
Qty:

Date:



# LED HERQUELED V • E40 LAMP

Why install new, or expensive retrofit? *Simply Relamp from HID to LED*



**HYBRID:** Autoswitching Dual Mode Driver  
**DIRECT PLUG-IN or BALLAST BY-PASS**  
Two in one: UL Type A + Type B internal driver  
**Open luminaires only**

## BENEFITS

- Instantly converts existing HID to LED by directly switching out the lamp
- Lasts 5x to 8x longer, saving money by eliminating maintenance cycles
- Direct Plug & Play Mogul E39/E40, universal burning position
- Internal IQ Driver™ works off existing MH and HPS magnetic ballasts
- No electrical permit, wiring modification or tools required
- Very low LED energy draw extends the life of the existing ballast
- When ready to bypass ballast, connect directly to the line voltage
- Substantially improved Color Rendering Index (CRI) >80 over HID
- High performance Nichia LEDs with 150+ lm/W efficacy
- Input 90-480V with direct plug-in, 90-300VAC with ballast bypass
- Advanced heat dissipation extends L70 life up to 100,000 hours (90 and 130W)
- 160W model: L70 life over 60,000 hours
- Ideal for industrial, commercial and retail use. NSF / Food Industry use Certified
- Ambient temperatures -40°C to 65°C/150°F
- O.D. = 140mm (5.5") x M.O.L. = 216mm (8.5") Max. weight 1.7kg / 3.8lbs
- Optional Harsh Environments user replaceable protective shield. 2Q16, C.F.
- Auxiliary SPD min. 3kV recommended to be installed on the supply line
- Five year limited warranty
- Made in Canada

## PRODUCT AND DIMENSIONS

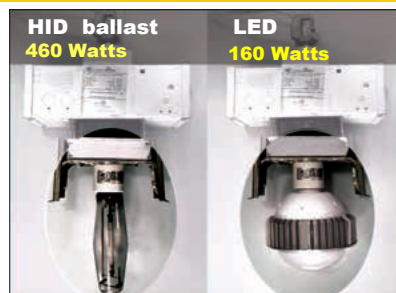
**Bypassing the ballast is recommended for maximized savings and system longevity**

Internal IQ Driver™ is compatible with the following ballasts

> North America Probe Start Metal Halide: M57/M58/M59

> Europe: HQI-150, HQI-250 and HQI-400

Save \$400\* per year by **simply changing the bulb**  
with payback less than one year\*\*  
**Save \$4,000 over the life of this lamp**



\* Calculated in 24/7 operation and cost of energy \$0.15/kWh, bypassed ballast

\*\* After Government rebates

## SPECIFICATIONS

- Popular Model: [SE-HQV-18K-850](#)

### SE-HQV-

#### LUMENS

11K - 10600 (80W)  
15K - 14800 (120W)  
18K - 18600 (160W)

#### CCT

830 - 3000 Kelvin  
841 - 4100 Kelvin  
850 - 5000 Kelvin  
864 - 6400 Kelvin

#### BEAM

Empty - Diffused with  
10% uplight (pictured)  
N - Narrow Flood 90°  
W - Wide Flood 120°

#### BASE

empty - N. America Mogul  
E40 - Europe E40+

+ North American and EU models are  
**NOT** electrically interchangeable

**PROJECT REFERENCE:**

**Type:**

**Qty:**

**Date:**



# LED HERQUELED HE • E40 LAMP

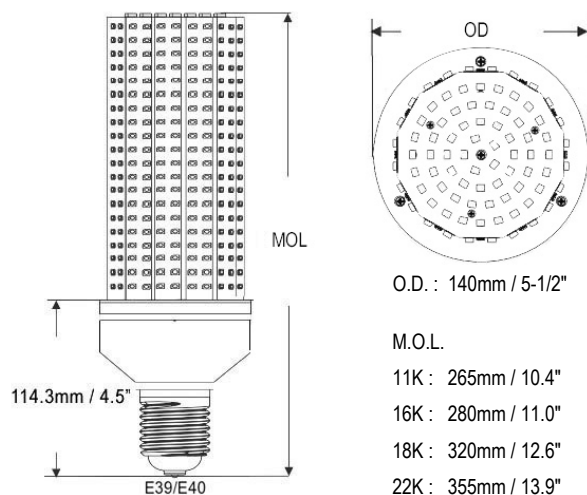


**INTERNAL DRIVER  
BALLAST BY-PASS**  
UL Type B internal driver  
Open luminaires only

## BENEFITS

- Fits into Mogul E39/E40, universal burning position
- Substantially improved Color Rendering Index (CRI) >80 over HID
- Highest efficiency with bypassed ballast, connects directly to the line voltage
- High performance Samsung LEDs with 165 lm/W efficacy
- Input 90-300VAC, 50/60Hz
- Advanced heat dissipation extends L70 life beyond 50,000 hours
- Suitable for indoor installations, open fixtures only
- Auxillary SPD min. 3kV recommended to be installed on the supply line
- Ideal for industrial, commercial and retail
- Ambient temperatures -40°C to 55°C/130F
- Max. weight 0.7kg / 1.5bs (22klm model)
- Five year limited warranty

## PRODUCT AND DIMENSIONS



## SPECIFICATIONS

- Popular Model: [SE-HQP-18K-850](#)

### SE-HQP-

#### LUMENS

8K - 8300 (62W)  
11K - 10700 (80W)  
16K - 15600 (120W)  
18K - 18200 (140W)  
22K - 21800 (165W)

#### CCT

830 - 3000 Kelvin  
841 - 4100 Kelvin  
850 - 5000 Kelvin  
864 - 6400 Kelvin

#### BASE

empty - N. America  
Mogul E40 - Europe E40

PROJECT REFERENCE:

Type:

Qty:

Date:



# LED HERQUELED 360 • E40 LAMP

Highbays and Lowbays: *Simply Relamp from HID to LED*



**HYBRID:** Autoswitching Dual Mode Driver  
**DIRECT PLUG-IN or BALLAST BY-PASS**  
Two in one: UL Type A + Type B internal driver  
**Open or enclosed luminaires**

## BENEFITS

- Instantly converts existing HID to LED by directly changing out the lamp
- Lasts 5x to 8x longer, saving money by eliminating maintenance cycles
- Direct Plug & Play Mogul E39/E40, universal burning position
- Internal IQ Driver™ works off existing MH and HPS magnetic ballasts
- No electrical permit, wiring modification or tools required
- Very low LED energy draw extends the life of the existing ballast
- When ready to bypass ballast, connect directly to the line voltage
- Substantially improved Color Rendering Index (CRI) >80 over HID
- High performance Samsung LEDs with 140+ lm/W efficacy
- Input 90-480V when direct plug-in, 90-300V when ballast bypass
- Advanced heat dissipation extends L70 life to over 50,000 hours
- Ideal for industrial, commercial and retail use.
- Ambient temperatures -40°C to 65°C/150F
- Max. weight 1.5kg / 3.2lbs (18klm model)
- Auxillary SPD min. 3kV recommended to be installed on the supply line
- Five year limited warranty

## PRODUCT AND DIMENSIONS

**Bypassing the ballast is recommended for maximized savings and system longevity**

Internal IQ Driver™ is compatible with the following ballasts:

> **Europe:** HQI-250, HQI-400, High Pressure Sodium, Son

> **North America Pulse Start Metal Halide:**

M102/M107/M131/M132/M136/M137/M138/M142

> **North America High Pressure Sodium:** S50, S51, S52, S55, S56, S62, S67



## SPECIFICATIONS

- Popular Model: [SE-HQG-18K-850](#)

### SE-HQG-

#### LUMENS

4K - 4390  
8K - 8300  
12K - 12000  
14K - 13800  
18K - 17700

#### CCT

830 - 3000 Kelvin  
841 - 4100 Kelvin  
850 - 5000 Kelvin  
864 - 6400 Kelvin

#### BASE

empty - N. America Mogul  
E40 - Europe E40  
MED - Medium  
E27 - Europe E27

PROJECT REFERENCE:

Type:

Qty:

Date:



# HERQULED 90 • LED LAMP

Wallpacks and Streetlights: *Simply Relamp from HID to LED*



**HYBRID:** Autoswitching Dual Mode Driver  
**DIRECT PLUG-IN or BALLAST BY-PASS**  
Two in one: UL Type A + Type B internal driver  
**Open or enclosed luminaires**

## BENEFITS

- Ideal for outdoor wall-packs and street lighting / parking lot lights
- Instantly converts existing HID to LED by directly switching out the lamp
- LED lamp lasts 5x longer saving money by eliminating maintenance cycles
- Direct Plug & Play E26/27 and Mogul E39/40, horizontal burning position
- Internal IQ Driver™ works off existing MH and HPS magnetic ballasts
- No electrical permit, wiring modification or tools required
- Very low LED energy draw extends the life of the existing ballast
- When ready to bypass ballast, connect directly to the line voltage
- Substantially improved Color Rendering Index (CRI) >80 over HID
- High performance Samsung LEDs with 140 lm/W efficacy
- 90-480V when direct plug-in, 90-300V when ballast bypass
- Advanced heat dissipation extends L70 life beyond 50,000 hours
- IP65 - suitable for wet locations / outdoor, open or closed luminaires
- Natural convection cooling - no moving parts
- Auxillary SPD min. 3kV recommended to be installed on the supply line
- Ambient temperatures -40°C to 65°C/150F
- Max. weight 0.7kg / 1.3bs (8klm model)
- Five year limited warranty

## PRODUCT AND DIMENSIONS

**Bypassing the ballast is recommended for maximized savings and system longevity**

Internal IQ Driver™ is compatible with the following ballasts:

- > Europe HQI-250, HQI-400, High Pressure Sodium, Son
- > North America Pulse Start Metal Halide:  
M90/M98/M102/M107/M131/M132/M136/M137/M138/M142
- > North America High Pressure Sodium: S50, S51, S52, S54, S55, S56, S62, S67

O.D. 89mm / 3-1/2"



## SPECIFICATIONS

- Popular Model: [SE-HQN-6K-850](#)

### SE-HQN-

#### LUMENS

3K - 2970  
4K - 3960  
5K - 4950  
6K - 5940  
8K - 8250

#### CCT

830 - 3000 Kelvin  
841 - 4100 Kelvin  
850 - 5000 Kelvin  
864 - 6400 Kelvin

#### BASE

empty - N. America Mogul  
E40 - Europe E40  
MED - Medium  
E27 - Europe E27

PROJECT REFERENCE:

Type:

Qty:

Date:



## LED FITLUX • RETROFIT MODULE

LONGEVITY *Beyond Bulbs*



lighting  
facts

Max. 4,000lm  
CRI>80



SE-TFR-50



SE-TFS-55



SE-TFP-155

**DRIVER-LESS:**

Direct 120VAC input

Cat. Number	LM	Watts	Shape	Dimensions mm
-------------	----	-------	-------	------------------



120V INPUT

SE-TFR-50- 06-8xx	540L	6W	2" round disc	Dia. 50mm
SE-TFR-50- 11-8xx	1070L	11W	2" round disc	Dia. 50mm
SE-TFR-50- 22-8xx	2145L	22W	2" round disc	Dia. 50mm



120V INPUT

SE-TFS-55- 22-8xx	1980L	22W	2.2" square	55x55
SE-TFS-55- 44-8xx	3965L	44W	2.2" square	55x55



120V INPUT

SE-TFP-155- 06-8xx	560L	6W	6.1" stick	20 x 155
SE-TFP-155- 11-8xx	990L	11W	6.1" stick	20 x 155
SE-TFP-155- 22-8xx	1980L	22W	6.1" stick	20 x 155

AVAILABLE C.C.T.

-8xx Specify color temp.: 2700K: **27**, 3000K: **30**, 3500K: **35**, 4100K: **41**, 5000K: **50**, 6400K: **64**

Standard stock CCT is 3000K

### NOTES

Max. Tc (case temperature) = 70°C. **Operating this product without an attached heatsink will result in permanent damage.** \*Polished L80, L70, Lumens, CRI, Watts, Lm/W, P.F. and T.H.D. values are established by LM-80/LM79 testing with NVLAP accredited testing laboratory and Energy Star submissions.

### Reliability • Performance • Payback

Designed from the ground up as a totally optimized LED retrofit solution, the FitLux delivers driver-less simplicity with market leading efficiency without sacrificing performance. Beyond substantial energy savings and reduced maintenance, FitLux is easy to install and fits anywhere where it can be attached to a flat metal surface. The FitLux series LED retrofit modules are the optimum alternative to traditional compact fluorescent and halogen lamps, and up to 100W H.I.D. metal halide light sources in recessed, surface, pendant and wall mounted, commercial or residential light fixtures.

A FitLux LED retrofit module let you quickly upgrade your favorite steplights, sconces, wallpacks, ceiling domes, vanity lights and more. Using under half the power of CFL or HID for the same light, delivering color quality above 80 CRI, with a lifetime beyond 60,000 hours, you see beautiful, maintenance free light for years to come.

### We Retrofit Anything!

Send us a sample of *any* light fixture, indoor or outdoor, and we will correctly configure the retrofit, and do a complete thermal testing right in our laboratory. This is a free service.



Horizontal vanity lights



Ceiling fixtures



Wall sconces

PROJECT REFERENCE:

Type:

Qty:

Date:



# SAVE ENERGY

## LIGHTING

# LED KIT ONE • TROFFER UPGRADE

PERFORMANCE *Beyond Tubes*

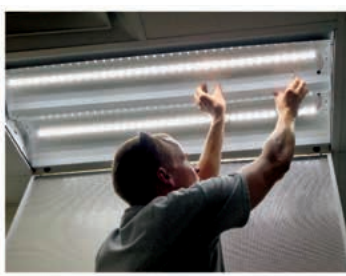


Max. 9,900lm  
CRI>80



Tube-free troffer design  
or existing housing

**L70 LIFE**  
**> 90,000 HOURS**



## Reliability • Performance • Payback

The KIT ONE LED upgrade system allows for simple conversion of fluorescent troffers to efficient LED technology. Offering 110LPW performance, over 90,000 hours L70 life and an easy 5-minute install, it gives facility managers years of energy and maintenance savings. KIT ONE fits into almost any existing linear fluorescent luminaire making it a perfect upgrade option where energy savings and long life are critical.

## SPECIFICATIONS

- Popular Model: [SE-K1-24-4T-841-U](#)

	Cat. Number	Lumens*	Input* Watts	Efficacy* LM/W	CCT / CRI	L80 LED life hours	L70 LED life hours	Upgrades fluor. lamps	Energy saving Watts T8/T12
1x4	SE-K1-14-2T-8xx-U	3000L	26W	111.1	xx00K / 82 min.	>60000	>90000	2x T8/T12	38/58
2x4	SE-K1-24-2T-8xx-U	3000L	26W	111.1	xx00K / 82	>60000	>90000	2x T8/T12	39/58
2x4	SE-K1-24-3T-8xx-U	4100L	38W	107.9	xx00K / 82	>60000	>90000	3x T8/T12	56/88
2x4	SE-K1-24-4T-8xx-U	5900L	52W	113.5	xx00K / 82	>60000	>90000	4x T8/T12	76/116
2x4	SE-K1-24-4T-HO-8xx-U	9900L	94W	105.2	xx00K / 82	>60000	>90000	4x T8/T12	32/74

- Popular Model: [K1-22-2P55-841-U](#)

	Cat. Number	Lumens*	Input* Watts	Effi cacy* LM/W	CCT* / CRI*	L80 LED life* hours	L70 LED life* hours	Upgrades fluor. lamps	Energy saving Watts PLL/Biax
	SE-K1-22-2T32-8xx-U	3000L	26W	111.1	xx00K / 82 min.	>60000	>90000	2UT8/T12/PLL	60
2x2	SE-K1-22-2P55-8xx-U	4100L	38W	107.9	xx00K / 82	>60000	>90000	2Biax/PLL55	92
	SE-K1-22-3P40-8xx-U	4100L	38W	107.9	xx00K / 82	>60000	>90000	3Biax/PLL40	98
	SE-K1-22-3P55-8xx-U	5900L	52W	113.5	xx00K / 82	>60000	>90000	3Biax/PLL55	130

### AVAILABLE C.C.T.

-8xx Specify color temp.: 2700K: **27**, 3000K: **30**, 3500K: **35**, 4100K: **41**, 5000K: **50**, 6400K: **64**

Standard stock is 4100K

Full details on Kit One LED module and driver specification are at [ParagonLED.net](http://ParagonLED.net)

**347V:** Replace -U with -3

**DIMMING:** Add suffix -D10

PROJECT REFERENCE:

Type:

Qty:

Date:



# SAVE ENERGY

## LIGHTING

# LED KIT W • WALL WASH UPGRADE

PERFORMANCE *Beyond Tubes*



FC

lighting  
facts



Max.5,900lm  
CRI>80



**L70 LIFE**  
> 90,000 HOURS



LED upgraded wallwasher



New diffuser and louver



Paragon™ light engines

### Reliability • Performance • Payback

The KIT W LED upgrade system allows for simple and cost-effective conversion of fluorescent wallwashers to efficient LED technology. Offering 110LPW performance, over 90,000 hours L70 life and easy installation, it gives facility managers years of energy and maintenance savings. KIT W fits into almost any existing linear fluorescent wallwasher making it a perfect upgrade option where energy savings and long life are critical.

### SPECIFICATIONS

- Popular Model: [KW-24-2PL40-841](#)

	Cat. Number	Lumens*	Input*	Efficacy*	CCT / CRI	L80 LED life	L70 LED life	Upgrades	Energy saving
			Watts	LM/W		hours	hours	fluor. lamps	Watts PLL/T5
2-ft	<b>SE-KW-24-2PL40-8xx</b>	4100L	38W	111.1	xx00K / 82min.	>60000	>90000	2x PLL.40W	62W
2-ft	<b>SE-KW-24-2PL55-8xx</b>	5900L	52W	107.9	xx00K / 82	>60000	>90000	2x PLL.55W	54W
4-ft	<b>SE-KW-48-1T5-8xx</b>	4100L	38W	107.9	xx00K / 82	>60000	>90000	1x T5 54W	20W
4-ft	<b>SE-KW-48-2T5-8xx</b>	5900L	52W	113.5	xx00K / 82	>60000	>90000	2x T5.54W	61W

-8xx Specify color temp.: 2700K: **27**, 3000K: **30**, 3500K: **35**, 4100K: **41**, 5000K: **50**, 6400K: **64**

Standard stock is **4100K**

**We Retrofit Anything!** Send us a sample of *any* light fixture, indoor or outdoor, and we will correctly configure the retrofit, and do a complete thermal testing right in our laboratory. All lab work is done at absolutely no cost or obligation to our customers. **This is a free service.**

### WALLWASHERS SUITABLE FOR KIT-W UPGRADE



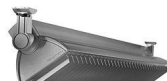
Halo Cooper Lighting



Juno



Lightolier



Lightolier PowerWash



Contech / Nora



Liteline



W.A.C.

... and more

PROJECT REFERENCE:

Type:

Qty:

Date:



**SAVE  
ENERGY**

**LIGHTING**

# LED KIT S • STRIP RETROFIT KIT

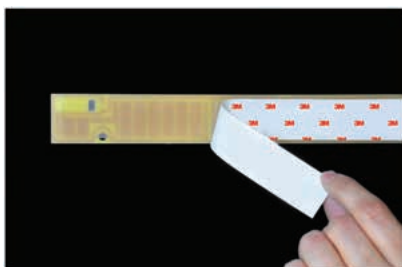
PERFORMANCE *Beyond Tubes*



Max. 9,900lm  
CRI>80



**L70 LIFE**  
> 90,000 HOURS



Easy peel & stick tool-less module mounting



Paragon™ light engine

## Reliability • Performance • Payback

The KIT S LED upgrade system allows for simple and cost-effective conversion of commercial fluorescent channel fixtures to efficient LED technology. Offering 115LPW performance, over 90,000 hours L70 life and easy installation, it gives facility managers years of energy and maintenance savings. KIT S can easily convert to LED almost any existing linear fluorescent fixture, making it a perfect upgrade option where energy savings and long life are critical.

## SPECIFICATIONS

- Popular Model: **KS-4T2-841-U**

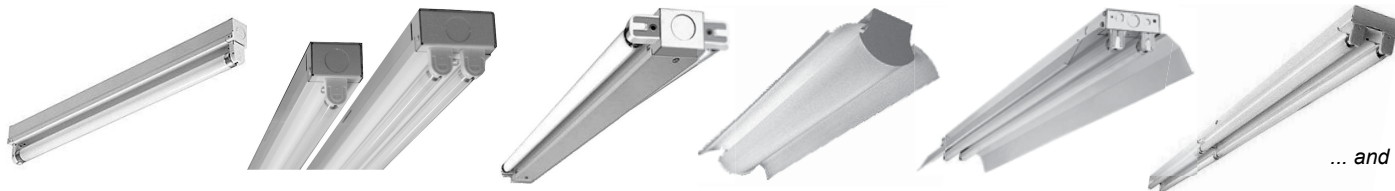
Cat. Number	Lumens*	Input* Watts	Efficacy* LM/W	CCT / CRI	L80 LED life hours	L70 LED life hours	Upgrades fluor. lamps	Energy saving Watts T8/T12
4-ft <b>KS-4T1-8xx-U</b>	1600L	13W	123.1	xx00K / 82min.	>60000	>90000	1x 4' T8/T12.	18/30W
4-ft <b>KS-4T2-8xx-U</b>	3000L	26W	115.4	xx00K / 82	>60000	>90000	2x 4' T8/T12	36/60W
8-ft <b>KS-8T2-8xx-U</b>	3000L	26W	115.4	xx00K / 82	>60000	>90000	2x 4' T8/T12	36/60W
8-ft <b>KS-8T4-8xx-U</b>	5900L	52W	113.5	xx00K / 82	>60000	>90000	4x 4' T8/T12	72/120W
8-ft <b>KS-8T112-8xx-U</b>	3000L	26W	115.4	xx00K / 82	>60000	>90000	1x F96/T12.	65W
8-ft <b>KS-8T212-8xx-U</b>	5900L	52W	113.5	xx00K / 82	>60000	>90000	2x F96/T12	123W
8-ft <b>KS-8T1HO-8xx-U</b>	5900L	52W	113.5	xx00K / 82	>60000	>90000	1x F96/T12/HO	78W
8-ft <b>KS-8T2HO-8xx-U</b>	9900L	94W	105.5	xx00K / 82	>60000	>90000	2x F96/T12/HO	162W

-8xx Specify color temp.: 2700K: **27**, 3000K: **30**, 3500K: **35**, 4100K: **41**, 5000K: **50**, 6400K: **64**

Standard stock is **4100K**

**347V:** Replace -U with -3

## CHANNEL STRIP FIXTURES SUITABLE FOR KIT-S UPGRADE



... and more

PROJECT REFERENCE:

Type:

Qty:

Date:



# SAVE ENERGY

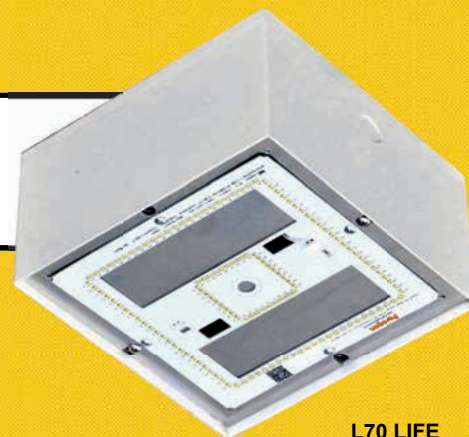
## LIGHTING

# LED KIT C • CANOPY UPGRADE

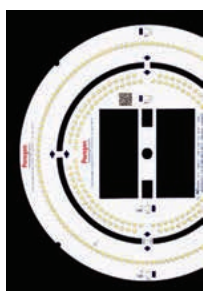
WHY INSTALL NEW? *Retrofit And Save!*



Max. 5,900lm  
CRI>80



**L70 LIFE**  
**> 90,000 HOURS**



Paragon™  
light engines

## Reliability • Performance • Payback

The KIT C LED upgrade system allows for simple and cost-effective conversion of Metal Halide and Sodium HID canopy lights to efficient LED technology. Offering 110LPW performance, over 50,000 hours L70 life and easy installation, it gives facility managers years of energy and maintenance savings. KIT C fits into almost any existing canopy light making it a perfect upgrade option where energy savings and long life are critical.

## SPECIFICATIONS

- Popular Model: [SE-KC-12R-250-841W-24-2PL40-841](#)

Cat. Number		Lumens*	Input* Watts	Efficacy* LM/W	CCT / CRI	L70 LED life hours	Upgrades HID lamp	Energy saving Watts
8" SE-KC-8S-100-8xx	SQUARE	4100L	38W	111.1	xx00K / 82min.	>50000	150W	162W
12" SE-KC-12S-250-8xx	SQUARE	5900L	52W	107.9	xx00K / 82	>50000	250W	248W
8" SE-KC-8R-100-8xx	ROUND	4100L	38W	107.9	xx00K / 82	>50000	150W	162W
12" SE-KC-12R-250-8xx	ROUND	5900L	52W	113.5	xx00K / 82	>50000	250W	240W

-8xx Specify color temp.: 4100K: **41**, 5000K: **50**, 6400K: **64**

Standard stock is **4100K**    **347V**: Replace -U with -3

**We Retrofit Anything!** Send us a sample of *any* light fixture, indoor or outdoor, and we will correctly configure the retrofit, and do a complete thermal testing right in our laboratory. All lab work is done at absolutely no cost or obligation to our customers. **This is a free service.**

## HID CANOPY LIGHTS SUITABLE FOR KIT-C UPGRADE



... and more

PROJECT REFERENCE:

Type:

Qty:

Date:



# LED CHEMICAL • COMPATIBILITY

### ● Polycarbonate

NOT ACCEPTABLE		
Acetaldehyde, 100%	Chromic Acid	Methylene Dichloride
Acetates	Clove Oil	Mineral Oil @ 40°C+
Acetic Acid, Glacial, 100%	Cosmoline Removers	Mineral Spirits
Acetic Anhydride	Cresol	Nail Polish
Acetone	Cutting Fluids and Oils	Naphtha (Petroleum Ether)
Acetonitrile	Cyclohexanone	Naphthenic Acids
Acetophenone	Cyclohexene	n-butyric Acid, 100%
Alcohol, Allyl	Diamyl Phthalate	Nitric Acid, 25%+
Alcohol, Amyl	Dibutyl Sebacate	Nitrobenzene
Alcohol, Benzyl	Diethyl Ether	n-Octane
Alcohol, Ethyl (Ethanol), 50%	Dimethyl Formamide	Oleum
Alcohol, Isopropyl, 100%	Diethyl Sebacate	Paint Removers
Alcohol, Methyl (Methanol), 50%	Dioxane	Paint Thinner
Aluminum Hydroxide	Ether	Perchloroethylene
Amines	Ethyl Acetate	Phenols
Ammonia	Ethyl Alcohol, Concentrated	Phenol, Aqueous, 5%
Ammonium Hydroxide	Ethyl Bromide	Phthalates
Amyl Acetate	Ethyl Butyrate	Potassium Hydroxide (Potash)
Aniline	Ethylene Bromide	Propane
Aromatic Hydrocarbons	Ethylene Dibromide	Pyridine
Aviation Fuel	Ethylene Oxide	Sodium Hydroxide
Benzaldehyde	Freon	Sodium Hypochlorite, 30%
Benzene	Fuels w/ Benzene (Gasoline)	Sodium Nitrate
Benzoic Aldehyde	Glass Cleaners	Sodium Sulfide
Brake Fluid	Hydrochloric Acid, 25%+	Sulfoxides
Bromine	Hydrofluoric Acid	Sulfur Dioxide
Butadiene	Hydrogen Peroxide, 40%+	Sulfuric Acid, 70%+
Butane	Isocane	Sulfurous Acid
Butyl Acetyl Ricinoleate	Kerosene	Tea
Butyl Stearate	Ketones	Tincture of Iodine, 5%
Calcium Hypochlorite	Lacquer Thinner	Toluene
Carbolic Acid	Lactic Acid Butyl Ester	Transformer Oil
Carbon Disulfide	Meta-Cresol	Trichloroacetic Acid
Carbon Tetrachloride	Methyl Benzoate	Trichloroethane
Cellulose Paints	Methyl Chloride	Trichloroethylene
Chlorinated Hydrocarbons	Methyl Cyclohexanol	Triethanolamine
Chlorinated Solvents	Methyl Ethyl Ketone	Turpentine
Chlorine	Methyl Naphthalene	Urea
Chlorophenol	Methyl Salicylate	Xylene
Diacetone Alcohol	Methylamine	

ACCEPTABLE		
Acetic Acid, 5%	Hydrochloric Acid, 15%	Silicone Oil
Ammonium Chloride	Hydrogen Peroxide, 30%	Silver Nitrate
Ammonium Phosphate	Lactic Acid, 20%	Soap Solutions
Ammonium Sulfate	Linseed Oil	Sodium Bicarbonate
Aniseed, Bay Leaves	Metal Carbonates	Sodium Chlorate
Anti-freeze	Metal Chlorides	Sodium Chloride, 10%
Beer	Metal Sulfates	Sodium Hypochlorite, 15%
Benzoic Acid	Methane Gas	Sodium Peroxide
Bleaching Powder Solution, 2%	Milk	Sodium Thiosulphate, 40%
Boric Acid, 10%	Mineral Oil @ 25°C	Stearic Acid
Car Wash Detergent	Motor Oil	Sulfur Dioxide, Dry Gas
Carbon Dioxide	Natural Gas	Sulfuric Acid, 30%
Carbon Monoxide	Nitric Acid, 10%	Sulfurous Acid, 5%
Carbonic Acid	Nitrogen Dioxide Gas	Tannic Acid, 10%
Chlorine-base Cleaners (Clorox)	Oleic Acid	Tartaric Acid, 50%
Cinnamon, Onions	Olive Oil	Transmission Fluid
Citric Acid, 10%	Oxalic Acid, 100%	Tripropylene Glycol
Cooking Oil	Oxygen	Vegetable Oils
Cottonseed Oil	Paraffin, Medicinal	Vinegar
Cyclohexane	Phosphoric Acid, 30%	Water, Mineral Water
Diethylene Glycol	Photographic Baths	Wax Polish
Epoxy Adhesives	Polishing Compounds	Wine
Ethyl Alcohol, 15%	Potassium Bromate	Zinc Sulfate
Ethylene Glycol E	Potassium Bromide	
Fatty Acids @ 25°C	Potassium Chlorate	
Ferric Chloride, Aqueous, 10%	Potassium Dichromate, 10%	
Formaldehyde, Aqueous, 40%	Potassium Permanganate	
Fruit Juice	Potassium Sulfate	
Glycerol, Glycerine	Power Steering Fluid	
Heptane	Propylene	
Hexane @ 25°C	Salicylic Acid @ 25°C	

Exposure to compounds identified as "Not Acceptable" will void all warranties associated with the product. Acrylic or polycarbonate components should not be used in areas where these chemicals are used and where these chemicals become mists or airborne vapors. Ensure that chemical interactions are considered when selecting fixtures. For additional information please consult an authorized factory representative. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, Save Energy Lighting Ltd. expressly disclaims any and all liability. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The user should thoroughly test any application before commercialization.

PROJECT REFERENCE:

Type:

Qty:

Date:



# LED CHEMICAL • COMPATIBILITY

## ● Acrylic

NOT ACCEPTABLE		
Acetaldehyde	Cinnamon Oil	Methyl Salicylate
Acetates	Cloves	Methylamine
Acetic Acid, 50%+	Cosmoline Removers	Methylene Dichloride
Acetic Anhydride	Cresol	Mineral Oil @ 40°C+
Acetone	Cyclohexane	Nail Polish
Acetonitrile	Cyclohexanone	Naphtha
Acetophenone	Cyclohexene	n-butyric Acid, 100%
Acrylic Paints	Diacetone Alcohol	Nitric Acid, 40%+
Alcohol, Allyl	Diamyl Phthalate	Nitrobenzene
Alcohol, Amyl	Dibutyl Sebacate	Nitrocellulose
Alcohol, Benzyl	Diethyl Ether	n-Octane
Alcohol, Butyl (Butanol)	Dimethyl Formamide	Oleum
Alcohol, Ethyl (Ethanol), 50%+	Dioctyl Sebacate	Organic Solvents
Alcohol, Isopropyl	Dioxane	Paint Removers
Alcohol, Methyl (Methanol), 10%+	Ether	Paint Thinner
Aluminum Hydroxide	Ethyl Acetate	Perchloroethylene
Amyl Acetate	Ethyl Bromide	Petroleum Ether (100-120°C)
Ammonia @ 40°C+	Ethyl Butyrate	Phenols
Aniline	Ethylene Bromide	Phosphoric Acid, 95%
Aromatic Solvents	Ethylene Chloride	Phosphoric Trichloride
Aviation Fuel (100 Octane)	Ethylene Dibromide	Phthalates
Benzaldehyde	Ethylene Oxide (Moist)	Pyridine
Benzene	Fluorides	Salicylic Acid
Benzoic Aldehyde	Formic Acid	Silicon Tetrachloride
Bituminous Emulsions	Fuels w/ Benzene (Gasoline)	Sodium Phosphate
Brake Fluid	Glycol	Sulfoxides
Bromine Gas	Hydrofluoric Acid	Sulfur Dioxide, Liquid
Butraldehyde	Hydrochloric Acid, 40%+	Sulfuric Acid, 65% @ 40°C+
Butyl Acetyl Ricinoleate	Hydrogen Peroxide, 40%+	Sulfurous Acid, Concentrated
Butyl Lactate	Iron Perchloride	Tincture of Iodine, 5%
Butyl Stearate	Isoctane	Toluene
Carbolic Acid	Ketones	Transformer Oil
Carbon Disulfide	Lacquer Thinner	Trichloroethane
Carbon Tetrachloride	Lactic Acid Butyl Ester	Trichloroacetic Acid
Cellulose Paints	Mercury Chloride	Trichloroethylene
Chlorinated Hydrocarbons	Meta-Cresol	Turpentine
Chlorinated Solvents	Methyl Benzoate	Vegetable Oil
Chlorine Gas	Methyl Chloride	Xylene
Chlorophenol	Methyl Cyclohexanol	
Chromic Acid	Methyl Naphthalene	

ACCEPTABLE		
2-Ethylhexyl Sebacate	Fruit Juice	Potassium Chlorate
Acetic Acid, 5%	Glycerol (Glycerine)	Potassium Cyanide
Ammonia-Based Cleaners @ 25°C	Heptane	Potassium Dichromate, 10%
Ammonia @ 25°C	Hexane	Potassium Hydroxide @ 25°C
Ammonium Hydroxide, 28%	Hydrochloric Acid, 38%	Potassium Permanganate
Ammonium Nitrate	Hydrogen Peroxide, 30%	Potassium Sulfite
Ammonium Phosphate	Hydrogen Sulfide	Power Steering Fluid
Aniseed, Bay Leaves, Nutmeg	Kerosene	Propylene
Anti-freeze	Lactic Acid, 20%	Pure-oil Paints
Beer	Metal Carbonates	Silicone Oil
Bleaching Powder Paste	Metal Chlorides	Silver Nitrate
Bleaching Powder Solution, 5%	Metal Sulfates	Soap Suds
Butane	Methane Gas	Sodium Chloride, 10%
Calcium Hypochlorite	Milk	Sodium Cyanide
Car Wash Detergent	Motor Oil	Sodium Fluoride
Carbon Dioxide Gas	Natural Gas	Sodium Hydroxide, 60%
Carbon Monoxide Gas	Nitric Acid, 20%	Sodium Hypochlorite, 15%
Caustic Potash	Nitric Oxide	Sodium Nitrate
Chlorine Based Cleaners @ 25°C	Nitrogen Dioxide Gas	Sodium Thiosulphate, 40%
Chlorine, Aqueous, 2%	Nitrogen Monoxide Gas	Stearic Acid
Citric Acid, 20%	Olefinic Carbolic Acids	Sulfur Dioxide, Dry Gas
Coffee (Unflavored)	Oleic Acid	Sulfuric Acid, 30% @ 25°C
Cooking Oil	Olive Oil	Sulfurous Acid, 5%
Cottonseed Oil	Oxalic Acid, 100%	Tartaric Acid, 50%
Diethylene Glycol	Oxygen Gas	Transmission Fluid
Epoxy Adhesives	Ozone Gas	Tricresyl Phosphate
Ethyl Alcohol, 15%	Paraffin, Medicinal	Triethyl Amine
Ethylene Glycol	Pepper, Onions	Vinegar
Ethylene Oxide (Dry)	Phosphoric Acid, 10%	Wax Polish
Ferric Chloride, Aqueous, 10%	Photographic Baths	Whitewash
Formaldehyde, Aqueous, 40%	Polishing Compounds	Wine

PROJECT REFERENCE:

Type:

Qty:

Date:

## Standard Terms and Conditions

### Minimum Order

\$100.00 - Orders with a pre tax value below \$100 will have a \$10 handling charge applied on the invoice.

### Credit Card Payments

We accept Visa and Mastercard. Additional charges may apply.

### Payment Terms O.A.C.

1. With all new customers, the first order is always prepaid, credit card or C.O.D. where practical.
2. As Save Energy does not sell direct, it will not accept orders from certain customers i.e. end-users, contractors or persons deemed to order material for Save Energy's competitors.
3. Total invoice amount is due in 30 days and no holdbacks are allowed for any reason whatsoever.
4. 2% per month service charge is applied to all invoices over 45 days past due. Customer is fully responsible for any charges and costs related to collection of the outstanding debt, including third-party collection and all legal fees and expenses.
5. On all "Special Order" and "Custom Work" and all non-standard options, a deposit of up to 50% is required with a PO. No materials will be ordered or work will commence until deposit is received and cleared by our bank.
6. With orders that exceed Customer's credit limit, the difference between customer's credit limit and the order value including taxes and shipping, must be paid prior to shipment release.

### Delivery Charges and Limitation of Liability

1. Ontario, Quebec - Prepaid shipment to Major Hubs if purchase order amount is greater than \$1,000.00 (CAD).
2. Rest of Canada - Prepaid shipment to Major Hubs on PO amount greater than \$2,000.00 (CAD). "Beyond point" deliveries may incur additional charges.
3. U.S. - Prepaid shipment if purchase order amount is greater than \$3,000 (USD). Applies to all regions of continental U.S.A.
4. Other countries: Customer is responsible for all shipping costs and any import duties, V.A.T. or any other taxes due on import to his country.
5. All shipments are Ex-works Save Energy plant, office or a distribution point. Save Energy's responsibility ceases when material is picked up by a forwarder.
6. Save Energy can not, and will not be held liable for any delays in delivery for any reason whatsoever.

### Returned Goods

1. NO RETURNS on "Custom", "Special Order", or any other non-standard items, "Final Sale" goods, third-party items or modified luminaires.
2. Goods are not to be returned without Save Energy's prior consent and authorization number
3. Goods cannot be returned passed 6 months from the date of invoice
4. Returned goods or POs cancelled for any reason whatsoever are subject to a 30% re-stocking charge (minimum \$100.00).
5. Customer is responsible for the freight costs of the returned goods.
6. If customer wishes to exchange for equal or greater value of goods, 30% re-stocking charge can be waived subject to:
  - a) 5% administrative charge on the invoice value, and
  - b) customer will bear the freight costs of both the returned goods and delivery of the exchanged goods.

### Credit Notes

1. Credit notes can only be applied to future purchase of goods sold by Save Energy Lighting Ltd. and cannot be offset against payment of outstanding invoices.
2. Credit notes are valid for six (6) months from the date of issue. After the credit note has expired, it is no longer valid. It is the responsibility of the customer to ensure that the credit note is redeemed before the expiry date.
3. Credit notes are not redeemable for cash.

### Limited Warranty

1. See the World-Wide Limited Warranty and Limitation of Liability document on the next page.



LIGHTING



## World-Wide Limited Warranty Statement and Limitation of Liability

Save Energy Lighting Ltd. (Save Energy) warrants that, LED luminaire products furnished by Save Energy, except where otherwise stated, with manufacturing date code after October 2015 will continue delivering an adequate performance defined as Lumen Maintenance 70% or better, from the date of manufacture for the following time periods:

Luminaires installed in indoor air-conditioned commercial spaces with max. ambient temperature 35°C/95°F with operating cycles not exceeding 12 hours per day, 4380 hours per year, Ten (10) Year Limited Warranty. Luminaires installed in indoor non-airconditioned or partially airconditioned commercial spaces with maximum ambient temperature 45°C/110°F, with operating cycles not exceeding 12 hours per day, 4380 hours per year, Six (6) Year Limited Warranty. Luminaires installed indoors or outdoors where approved for, with operating cycles exceeding 12 hours per day, 4380 hours per year: Five (5) Year Limited Warranty. Herquled series self-ballasted LED retrofit lamps carry five (5) Year Warranty.

To obtain Ten (10) Year Warranty and Six (6) Year Warranty, the installation must be completed by a professional electrician with proper and currently valid Master Electrician License. In addition, the installation must be registered (Warranty Registration) with Save Energy by providing the following information on the End-user's letter-head, by regular mail, End-user's email or fax, attn. Customer Care Team:

1.) Date of installation completion / final decommissioning. 2.) End-user name, address, phone number and contact name and email address of Facility Manager and Maintenance Manager. 3.) Name, address, phone number, contact name and email address of person(s) that installed the product. 4.) Include copy of their Master Electrician Licence. 5.) Include copy of the Passed Electrical Safety Inspection. 6.) Include copy of the original Invoice for the registered materials.

The warranty and remedies set forth herein are conditional upon proper and complete project Warranty registration, transportation, storage and installation in conformance with current editions of National and local codes, Underwriters' Laboratories Inc., Canadian Standards Association standards for safety and any Installation Instructions or recommendations of Save Energy. The conditions of tests concerning any luminaire which is claimed to have not performed satisfactorily under this warranty shall be, before any tests are performed, mutually agreed upon in writing and Save Energy shall be notified of, and may be represented at all tests that may be made on the subject luminaire or luminaires. Power surge or transient voltage damage to the product, or damage caused by third party accessories, are not covered by warranty. Inappropriate use, failure to follow installation instructions or removal from the premises will void the warranty.

If any luminaire fails to meet the above warranty, and only if (I.) the original purchaser or the original end-user (Customer) notifies Save Energy in writing within ten (10) days of discovery of the defect, (II.) presents the original proof of purchase, i.e. distributor Invoice and (III.) makes the luminaire or luminaires available, Save Energy shall thereupon correct such defect, at Save Energy's sole option, by either:

- (A) replacing the defective luminaire (F.O.B. Save Energy plant, Office or other point of shipment) with an identical or similar product or
- (B) repairing the defective luminaire if possible. In all instances, the Customer is responsible for all packaging and shipping costs.

**No repair or other labor charges, or shipping charges, or any other costs will be paid for unless explicitly authorised in writing by Save Energy.** In all instances the Customer shall provide written notification of a claimed defect to Save Energy. Save Energy will issue proper R.M.A. number that begins with W. Once the Customer receives proper W.R.M.A. number, the Customer shall return the defective luminaire to Save Energy within 30 days from W.R.M.A. date. Luminaires must be returned in proper packaging as not to get damaged in transport. No shipping damage will be repaired under warranty.

The foregoing shall constitute the sole compensation to the Customer and the sole liability of Save Energy with regard to warranty. Save Energy makes no other warranty, statutory or otherwise, and none is implied. In particular, without limiting to foregoing, no warrant of salability or fitness for a particular purpose is made or implied. Save Energy's liability on any claim of any kind, including negligence for any damage arising out of, connected with, or resulting from this warrant, or from the supply or failure to supply a luminaire, or from the design, manufacture, sale, delivery, resale, installation, inspection, repair, operation or use of a luminaire furnished by Save Energy, shall in no case exceed the purchase price allocated to the luminaire or luminaires which give rise to the claim.

Save Energy and its directors, officers, servants, employees, agents, representatives, and third-party contractors make efforts to ensure that correct products and orders are shipped in a timely fashion and accurately, but Purchaser understands, acknowledges and agrees that errors or omissions may occur and that Save Energy Lighting Ltd. makes no guaranty, and shall bear no liability, with respect to the determination as to whether a product meets the Purchaser or End-user performance or other requirements, or with respect to the accuracy or timeliness of product delivery. Published data are based on laboratory testing results under 25°C/77°F and controlled environmental conditions. Actual field performance may vary depending on specific operating conditions or installed accessories. All specifications are subject to change without notice. **Certain products or product features published in this Catalog might be going through final stages of UL/cUL/ETL/CE safety certification or DLC performance testing, and might not be available for commercial sale yet. Check with the company website for current product versions prior to specifying or ordering.**

Purchaser hereby waives and completely releases any and all claims, causes of action, suits, or rights of any kind whatsoever against Save Energy, that it might have against Save Energy, for any loss, damage, injury, cost or expense resulting from or in connection with the Purchaser's order and products, including but not limited to, order accuracy, and as to whether Save Energy product or any other product meets the technical requirements. END OF DOCUMENT



# Maintenance-free LEDs

Solid-state technology has significantly impacted on the lighting industry over the past few years.

Concurrently, Save Energy Lighting Ltd. has been evolving into an industry leader of solid state lighting who designs, engineers and produces a broad range of energy efficient, low maintenance lighting products. Save Energy Lighting's products use the latest state of the art LED technology for architectural, retail, hospitality, multi-unit residential, industrial, commercial, and institutional applications both in- and outdoors.

## The Save Energy Lighting Promise

The pace of technology advancement can be dizzying, making it hard to understand your opportunity and risks at any given moment in committing to an investment. Save Energy Lighting makes the decision simple, both in considering now as well as the long run. As an LED leader, we engineer to perfection even the smallest details within our products, addressing the needs of many indoor or outdoor lighting applications.

In order to exceed the marketplace standard for LED light engine longevity, Save Energy Lighting uses reliable Paragon™ LED platform technology that is at the cutting edge of innovation, and is tested independently, extending the life of the product. With in-house engineering, Save Energy Lighting offers peace of mind providing long-term support for delivered products, even as technology continues to advance. Save Energy Lighting luminaires are guaranteed to deliver the finest quality of light with the most energy efficient LED lamping and optic technology available.

## Responsible Lighting

The standard that we uphold is our deep commitment to eco-friendly manufacturing, extensive research and development, energy saving technology, design aesthetics and community involvement.

With 90% of our products manufactured in zero-landfill facilities where all inputs and throughputs are known, Save Energy Lighting can proudly stand behind a 10-year/50,000 hour warranty on most products. Save Energy Lighting's portfolio of LED light fixtures offers real world real solutions and long term confidence.

## The Leading Edge Of Innovation That You Can Rely On

Save Energy Lighting is committed to developing state of the art technology, with past innovations that included **Kit\_One™** (2013), the world's first DLC listed LED troffer upgrade kit with product life (LEDs and driver) reaching 100,000 hours, **PargaDe™** (2014), the world's first 10,000 lumen linear IP67 fixture in a standard 4-ft form that uses innovative thermal management and heat dissipation, and **Herquiled™** (2015), the world's first 18,000 lumen self-ballasted dual-mode LED high bay upgrade that simply screws into an existing socket, or connects directly to the line voltage power.

## New in 2016

With the start of 2016, we introduced a new suite of exciting **3D Troffer™** series with **tuneable CCT**, ultra-thin **Indir™** troffers with extremely low UGR, architectural **Ghost™** LED high bay with unique semi-translucent 16"/22" reflector, as well as all-new **FitLux™** driver-less retrofit modules that help Medical, Hotel, and Multifamily customers to effortlessly upgrade their wall sconces, step lights and ceiling fixtures to LEDs. All products are specifically designed to accommodate the ever-changing needs of modern industrial and commercial facilities alike.

Save Energy Lighting luminaires utilize the finest LEDs available with 70% light output maintenance life (L70) now exceeding 100,000 hours, and drivers with matching longevity.

All LEDs meet the highest ANSI (American National Standards Institute) binning standards for outstanding color consistency, rendering, quality, uniformity and light output. The fourth generation of Paragon™ LED engines provide designers with a new palette of adjustable color and enable digital control to deliver a multi-dimensional, interactive experience, maintaining consistency in color over the service life of a product and the project, delivering the most consistent customer experience via appearance and optimum aesthetic appeal over time.



LIGHTING



# List of trademarks

## LUMINAIRES

HIGH BAYS: **E-Conomy™**, **Holsun™**, **Ghost™**, **GigaLed™**, **GigaLed Gym™**, **GymStar™**, **SuperStar™**

IP67 VAPORTITES: **PargaDE™**

STREET LIGHTS: **Calle™**

TROFFERS: **3D Troffer™**, **Luksus 3D™**, **Lyx 3D™**, **Luksaj™**, **Kusaj™**, **Arc™**, **Dolor™**, **Indir™**, **LedLite™**

PANELS: **Fluxie™**

TUNABLE WHITE LED CCT: **Colortune™**

## RETROFITS

HIGH POWER LAMPS: **Herquled™**, **Herquled V™**, **Herquled 360™**, **Herquled HE™**

HIGH POWER WALL PACK LAMPS: **Herquled 90™**

120V DRIVER-LESS LED MODULES: **FitLux™**

TROFFER MODULE RETROFIT KITS: **Kit One™**

COMMERCIAL STRIP RETROFIT KITS: **Kit S™**

TRACKLIGHTING WALLWASH UPGRADES: **Kit W™**

CANOPY LIGHT LED UPGRADES: **Kit C™**

## COMPONENTS

DUAL MODE TYPE A/B DRIVER: **IQ Driver™**

DIFFUSING MATERIALS: **SoftTech™**

STREETLIGHT OPTICS: **Slim Optic™**, **Precision Delivery Lens™**

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LIGHTING



**SPEAK WITH AN EXPERT**

## STARTING A PROJECT?

We craft solutions that are  
creative, contemporary,  
reliable and sustainable.

CONTACT US >

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