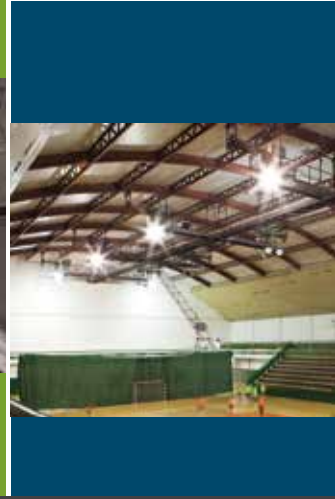
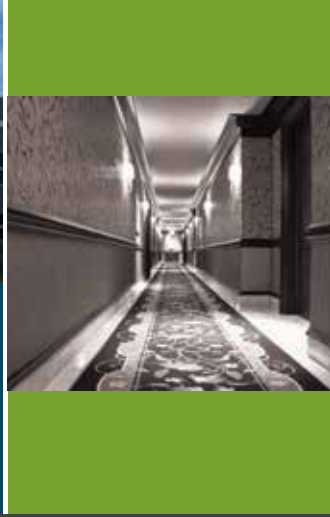




# Light Efficient Design

The industry's **broadest assortment**  
of **LED RETROFIT** products, spanning  
**10** application **categories**, and offering  
**CHOICES** in retrofit technologies



Powering the Switch to LED...ALL WAYS



[www.led-llc.com](http://www.led-llc.com)



# Light Efficient Design

## Transforming Light...

for nearly a decade, Light Efficient Design has maintained its focus on growing the LED retrofit category. Boasting more than one million LED retrofits installed, five distribution centers worldwide, and being named among Chicago’s fastest growing companies 3 years in a row, Light Efficient Design is proud to provide the highest quality and broadest LED retrofit product line on the market today. Offering you choices in “Bypass the Ballast” and “Plug ‘N Play” retrofit designs powers you to energy-smart, LED lighting solutions.

### Table of Contents

Introduction to LED Retrofit.....	3
High Bay .....	4-5
High Bay Fixtures .....	6
Low Bay .....	7
Shoe Box / Wall Pack.....	8-9
Recessed Can.....	10-11
Post Top .....	12-13
Bollard .....	14
PL .....	16
Linear (T8 Tube) .....	17
SimuLight™ Grow.....	18-19
Light Efficient Design Representatives .....	20

#### Canadian Model Number Designations

Models ending in...



LED-8030M42 **C-A** = 347V →

LED-8030M42 **-A** = 120/277V →

LED-8030M42 **C** = 120/347V →

## BALLAST BYPASS

SERIES 1

### Internal Driver



- Lowest operating cost
- Broadest selection of products
- Damp rated

## BALLAST BYPASS

SERIES 2

### External Driver



- Dimmable
- Silent operation
- Wet rated (IP64)

## BALLAST COMPATIBLE

SERIES 3



- EASIEST to install
- Works with most metal halide ballasts
- Damp rated

### Sample Program

Try our LED retrofits in your project with no risk. Sample quantities\* are available with 60-day terms, and can be returned in original cartons within 60 days. No restocking fee, no questions asked. That’s our “tryout before rollout” guarantee!

\*Up to 4 pieces

# Powering the Switch to LED



## Light Efficient Design

Over 100 models available

Replaces up to 1000W HID

Design and utility patents (pending)

-40°F to +122°F ambient temperature range  
with advanced active cooling

CCT from 2700K to 5700K—custom CCT available

UL approved for enclosed fixtures (most models)

UL1598C for all mogul and 120V medium base lamps

50,000 hour rated life

5 year limited warranty

DLC and LDL listed (most models)

FCC part 15 compliant

Built-in surge protection



### #1 It's Budget-Friendly

Unlike total fixture replacement, you can retrofit in budget-manageable phases, while achieving energy and maintenance savings.

### It Looks Great! #2

While keeping your existing fixture styles consistent, our retrofits provide high CRI and your choice of Kelvin temperatures.

### #3 It's Easy

Installation is simple—with our convenient retrofits, you simply bypass the ballast and screw them in, or choose our easiest to install 'Plug 'n Play' models.

### It's Upgradeable #4

Technological advances allow us to offer more efficient, high-powered LEDs at a lower cost. Easy upgrades and installation prevents you from being stuck with outdated fixtures.

## WHY RETROFIT?



### #5 It's Accredited



# HIGH BAY

## Ballast Bypass—Internal Driver

Smartest choice for energy savings

**SERIES 1**

- ▶ Broadest selection of products
- ▶ Eliminates the worry of ballast failure



**100W**  
**LED-8036M**

Replaces up to 250W



**140W**  
**LED-8030M\***

Replaces up to 400W

\* Design Patent D723,194

**Aims light upward, sideways, and down**



**140W**  
**LED-8032M\***

Replaces up to 400W

\* Design Patent 29/519,210

**Total downlight for ultra-high ceilings**

## Ballast Bypass—External Driver

**SERIES 2**

- ▶ Dimmable with required LED dimming controller
- ▶ Silent operation means less disturbance in your environment
- ▶ External driver can be mounted up to 250' away

Also available with 480V driver



**Dimmable 3 Ways!**

- ▶ 0-10V DC dimming
- ▶ PWM (Pulse Width Modulation)
- ▶ Resistive



**150W**  
**LED-8034M**

Replaces up to 400W



**300W**  
**LED-8050M**

Replaces up to 1000W

**Suitable for open fixtures only**

## Ballast Compatible—Plug 'n Play

**SERIES 3**

- ▶ Compatible with pulse or probe start magnetic metal halide ballasts
- ▶ Easiest to install—simply screw into existing socket



No special wiring needed



**100W**  
**LED-8036M-MHBC**

Replaces 250W and 320W  
Mogul base



**140W**  
**LED-8030M-MHBC**

Replaces 320W and 400W  
Mogul base

**Aims light upward, sideways, and down**



**140W**  
**LED-8032M-MHBC**

Replaces 320W and 400W  
Mogul base

**Total downlight for ultra-high ceilings**

# LED for HID RETROFIT

A simple upgrade to your existing high bay fixtures that can be done today!



Ideal for use in:  
**Large retail spaces**  
**Industrial spaces**  
**Auditoriums**  
**Gymnasiums**  
**Warehouses**  
**Factories**



Retrofits into the most popular high bay fixtures



Ballast Bypass – Internal Driver   SERIES 1											
DESCRIPTION			LUMENS	REPLACES	LED POWER	BASE	CCT			DIMENSIONS	
<b>LED-8036M 100W</b> HIGH / LOW BAY LIGHTING	LED-8036M40-A	LED-8036M40-A (120V) LED-8036M40C-A (347V)	10656 - 120V 10902 - 347V	250W	100W	EX39	4000K	✓	✓	7.75" x 7.9"	
	LED-8036M57-A	LED-8036M57-A (120V) LED-8036M57C-A (347V)	10798 - 120V 11015 - 347V				5700K	✓	✓		
<b>LED-8030M 140W</b> HIGH BAY LIGHTING	LED-8030M40-A	LED-8030M40-A (120V) LED-8030M40C-A (347V)	15763 - 120V 15667 - 347V	400W	140W	EX39	4000K	✓	✓	9.5" x 9.1"	
	LED-8030M57A	LED-8030M57-A (120V) LED-8030M57C-A (347V)	15911 - 120V 15966 - 347V				5700K	✓	✓		
<b>LED-8032M 140W</b> HIGH BAY LIGHTING	LED-8032M40-A	LED-8032M40-A (120V) LED-8032M40C-A (347V)	16407 - 120V 16668 - 347V	400W	140W	EX39	4000K	✓	✓	9.5" x 9.1"	
	LED-8032M57-A	LED-8032M57-A (120V) LED-8032M57C-A (347V)	16605 - 120V 16923 - 347V				5700K	✓	✓		
Ballast Bypass – External Driver   SERIES 2											
<b>LED-8034M 150W</b> HIGH BAY LIGHTING	LED-8034M50	LED-8034M50 (120V)	19344	400W	150W	EX39	5000K	✓	✓	10" x 10"	
	LED-8034M50-HV (480V)	LED-8034M50-HV (347V)	19022				5000K	✓	✓		
<b>LED-8050M 300W</b> HIGH BAY LIGHTING	LED-8050M50	LED-8050M50 (120V)	34153	1000W	300W	EX39	5000K	✓	✓	12.5" x 12.5"	
	LED-8050M50-HV (480V)	LED-8050M50-HV (347V)	33533				5000K	✓	✓		
VOLTAGE:  120-277VAC  120-347VAC • >80 CRI • 50,000 HOUR RATED LIFE • 5 YEAR WARRANTY											
Ballast Compatible – Plug 'n Play   SERIES 3											
DESCRIPTION			LUMENS	REPLACES	LED POWER	SYSTEM POWER	ENERGY SAVINGS*	BASE	CCT		DIMENSIONS
<b>LED-8036M 100W</b> HIGH / LOW BAY LIGHTING	LED-8036M40-MHBC	LED-8036M40-MHBC	11046	Up to 250W	100W	111W	176W	EX39	4000K	✓	7.75" x 7.9"
	LED-8036M57-MHBC	LED-8036M57-MHBC	10096						5700K	✓	
<b>LED-8030M 140W</b> HIGH BAY w/UP-LIGHT	LED-8030M40-MHBC	LED-8030M40-MHBC	18619	Up to 400W	140W	194W	266W	EX39	4000K	✓	9.5" x 9.1"
	LED-8030M57-MHBC	LED-8030M57-MHBC	17047						5700K	✓	
<b>LED-8032M 140W</b> HIGH BAY LIGHTING	LED-8032M40-MHBC	LED-8032M40-MHBC	19578	Up To 400W	140W	194W	266W	EX39	4000K	✓	9.5" x 9.1"
	LED-8032M57-MHBC	LED-8032M57-MHBC	17892						5700K	✓	
VOLTAGE: MH BALLAST ONLY • >80 CRI • 50,000 HOUR RATED LIFE • 5 YEAR WARRANTY											

\*Energy savings is calculated using the wattage you are replacing multiplied by 1.15, then subtracting the system power from that number.  
 For example, using LED-8032M the calculation is:  
 400W x 1.15 = 460  
 460 - 208 = **252 Savings**

Step-down transformers available for 480V applications  
 MTM01606224C 160VA  
 MTM00506224C 50VA



ON ALL MODELS except LED-8034



# HIGH BAY FIXTURES

High Output LED Performance in a Self-Contained High Bay Luminaire

**LED** for **HID**  
RETROFIT

**150W**  
**LED-9150**

Replaces up to 400W






A simple and cost effective way to light large spaces





**300W**  
**LED-9300**

Replaces up to 1000W

- ▶ High efficacy >125 LPW
- ▶ High foot candles:
  - 150W - 5.5FC @ 34'
  - 300W - 5.5FC @ 51'
- ▶ 120° LED beam angle for wide, even distribution
- ▶ 5000K CCT
- ▶ Hanging cables included

DESCRIPTION			LUMENS	POWER USED	REPLACES	BASE	CCT		DIMENSIONS
<b>LED-9150</b> <b>150W</b> High Bay Luminaire	LED-9150-50K	LED-9150-50K	18780	150W	400W	NA	5000K	✓	23.8" x 23.8" x 2.75"
<b>LED-9300</b> <b>300W</b> High Bay Luminaire	LED-9300-50K	LED-9300-50K	38533	300W	1000W	NA	5000K	✓	48" x 23.8" x 2.75"

VOLTAGE:   120-277VAC • >80 CRI • 50,000 HOUR RATED LIFE • 5 YEAR WARRANTY



# LOW BAY



Perfect retrofit  
for parking  
garages

## Ballast Bypass—Internal Driver

SERIES  
1

- ▶ Low profile is ideal for projecting light to the ground
- ▶ Bright LED provides a well lit and safe camera-conducive environment



**52W**  
**LED-8025E\***

Replaces up to  
175W

Edison base



\* Design Patent  
29/415,685  
Utility Patent Pending  
13/645,209



**52W**  
**LED-8025M\***

Replaces up to  
175W

Mogul base

**60W**  
**LED-8035E\***

Replaces up to  
175W

Edison base



Uplight provides ceiling  
illumination and eliminates  
cave effect

\* Design Patent  
29/461,332  
Utility Patent Pending  
14/035,504

SERIES  
3

## Ballast Compatible—Plug 'n Play



**60W**  
**LED-8035E-MHBC**

Replaces  
175W and 250W

Edison base

No special wiring needed

- ▶ Compatible with pulse or probe start magnetic metal halide ballasts
- ▶ Easiest to install—simply screw into existing socket

Ballast Bypass – Internal Driver   SERIES 1											
DESCRIPTION			LUMENS	REPLACES	LED POWER	BASE	CCT			DIMENSIONS	
<b>LED-8025E</b> <b>52W</b> LOW BAY LIGHTING	LED-8025E42	LED-8025E42C	5498	175W	52W	E26 Edison	4200K	✓		6.1" x 7.8"	
	LED-8025E57	LED-8025E5C	5773				5700K	✓			
<b>LED-8025M</b> <b>52W</b> LOW BAY LIGHTING	LED-8025M42	LED-8025M42C	5498	175W	52W	E39 Mogul	4200K	✓	✓	6.6" x 7.8"	
	LED-8025M57	LED-8025M57C	5773				5700K	✓	✓		
<b>LED-8035E</b> <b>60W</b> LOW BAY w/ UP-LIGHTING	LED-8035E40-A	LED-8035E40C-A	6684	175W	60W	E26 Edison	4000K	✓		6.1" x 7.8"	
	LED-8035E57-A	LED-8035E57C-A	7062				5700K	✓			
VOLTAGE:  120-277VAC  120-347VAC • >80 CRI • 50,000 HOUR RATED LIFE • 5 YEAR WARRANTY											
Ballast Compatible – Plug 'n Play   SERIES 3											
DESCRIPTION			LUMENS	REPLACES	LED POWER	SYSTEM POWER	ENERGY SAVINGS*	BASE	CCT		DIMENSIONS
<b>LED-8035E</b> <b>60W</b> LOW BAY w/UP-LIGHT	LED-8035E40-MHBC	LED-8035E40-MHBC	5773	Up To 175W	60W	91W	110W	E26 Edison	4000K	✓	6.1" x 7.8"
	LED-8035E57-MHBC	LED-8035E57-MHBC	5266						5700K	✓	
VOLTAGE: MH BALLAST ONLY • >80 CRI • 50,000 HOUR RATED LIFE • 5 YEAR WARRANTY											

\*Energy savings is calculated using the wattage you are replacing multiplied by 1.15, then subtracting the system power from that number.

For example, using LED-8032M the calculation is:  
400W x 1.15 = 460  
460 - 208 = **252 Savings**



ON ALL MODELS



# SHOE BOX / WALL PACK

## Ballast Bypass—Internal Driver

SERIES 1



Smartest choice for energy savings

- ▶ All models rotate easily once secured tightly in sockets
- ▶ Pinpoint directional light so no lumens are lost in the box
- ▶ Eliminates the worry of ballast failure



**30W**  
**LED-8087E**  
Replaces up to 100W  
Edison base



**30W**  
**LED-8087M**  
Replaces up to 100W  
Mogul base



**50W**  
**LED-8088E**  
Replaces up to 175W  
Edison base



**50W**  
**LED-8088M**  
Replaces up to 175W  
Mogul base



**80W**  
**LED-8089M**  
Replaces up to 250W  
Mogul base

**120W**  
**LED-8090M-A**  
Replaces up to 400W  
Mogul base



Includes support feet to prevent socket sag

## Ballast Compatible—Plug 'n Play

SERIES 3



No special wiring needed

- ▶ Compatible with pulse or probe start magnetic metal halide ballasts
- ▶ Easiest to install—simply screw into existing socket



**50W**  
**LED-8088E-MHBC**  
Replaces 175W and 250W  
Edison base



**50W**  
**LED-8088M-MHBC**  
Replaces 175W and 250W  
Mogul base

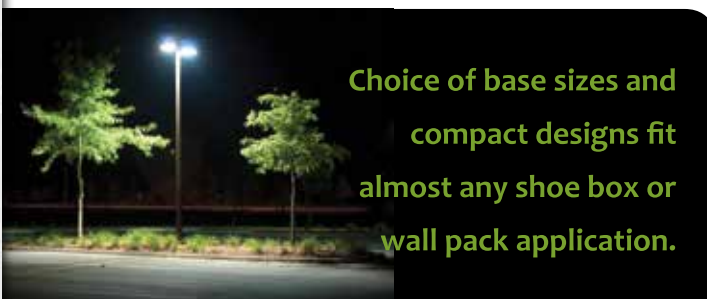


**80W**  
**LED-8089M-MHBC**  
Replaces 250W and 320W  
Mogul base

**120W**  
**LED-8090M-MHBC**  
Replaces 320W and 400W  
Mogul base

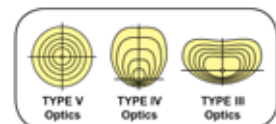


Includes support feet to prevent socket sag



Choice of base sizes and compact designs fit almost any shoe box or wall pack application.

LED-8090M offers choice of optics







Ballast Bypass – Internal Driver   SERIES 1										
DESCRIPTION			LUMENS	REPLACES	LED POWER	BASE	CCT			DIMENSIONS
<b>LED-8087E 30W</b> SHOE BOX / WALL PACK Type V Optics	LED-8087E30-A	LED-8087E30-A (120V)	3477	100W	30W	E26 Edison	3000K	✓	6" x 2.75"	
	LED-8087E40-A	LED-8087E40-A (120V) LED-8087E40C-A (347V)	4171 - 120V 3992 - 347V				4000K	✓		
	LED-8087E57-A	LED-8087E57-A (120V) LED-8087E57C-A (347V)	4225 - 120V 4058 - 347V				5700K	✓		
<b>LED-8087M 30W</b> SHOE BOX / WALL PACK Type V Optics	LED-8087M30-A	LED-8087M30-A (120V)	3477	100W	30W	E39 Mogul	3000K	✓	6.7" x 2.75"	
	LED-8087M40-A	LED-8087M40-A (120V) LED-8087M40C-A (347V)	4171 - 120V 3992 - 347V				4000K	✓		
	LED-8087M57-A	LED-8087M57-A (120V) LED-8087M57C-A (347V)	4225 - 120V 4058 - 347V				5700K	✓		
<b>LED-8088E 50W</b> SHOE BOX / WALL PACK Type V Optics	LED-8088E30	LED-8088E30C (120V)	5220	175W	50W	E26 Edison	3000K	✓	7.9" x 3.75"	
	LED-8088E40	LED-8088E40C (120-347V)	5946				4000K	✓		
	LED-8088E57	LED-8088E57C (120-347V)	6073				5700K	✓		
<b>LED-8088M 50W</b> SHOE BOX / WALL PACK Type V Optics	LED-8088M30	LED-8088M30	5697	175W	50W	E39 Mogul	3000K	✓	8.5" x 3.75"	
	LED-8088M40	LED-8088M40C (120-347V)	5946				4000K	✓		
	LED-8088M57	LED-8088M57C (120-347V)	5870				5700K	✓		
<b>LED-8089M 80W</b> SHOE BOX / WALL PACK Type V Optics	LED-8089M30	LED-8089M30	7137	250W	80W	E39 Mogul	3000K	✓	11.4" x 4.3"	
	LED-8089M40	LED-8089M40C	8959				4000K	✓		
	LED-8089M50	LED-8089M50C	9104				5000K	✓		
<b>LED-8090M 120W</b> SHOE BOX / WALL PACK Type V Optics	LED-8090M30-A	LED-8090M30-A (120V)	10667	400W	120W	E39 Mogul	3000K	✓	11.4" x 4.3"	
	LED-8090M40-A	LED-8090M40-A (120V) LED-8090M40C-A (347V)	13312 - 120V 13312 - 347V				4000K	✓		
	LED-8090M50-A	LED-8090M50-A (120V) LED-8090M50C-A (347V)	13373 - 120V 13373 - 347V				5000K	✓		
<b>LED-8090M 120W</b> SHOE BOX / WALL PACK Type IV Optics	LED-8090M4T4	LED-8090M4C4	8483	400W	120W	E39 Mogul	4000K	✓	11.4" x 4.3"	
	LED-8090M5T4	LED-8090M5C4	10165				5000K	✓		
<b>LED-8090M 120W</b> SHOE BOX / WALL PACK Type III Optics	LED-8090M4T3	LED-8090M4C3	9584	400W	120W	E39 Mogul	4000K	✓	11.4" x 4.3"	
	LED-8090M5T3	LED-8090M5C3	10566				5000K	✓		

VOLTAGE: 120-277VAC 120-347VAC • >80 CRI • 50,000 HOUR RATED LIFE • 5 YEAR WARRANTY

Ballast Compatible – Plug 'n Play   SERIES 3											
DESCRIPTION			LUMENS	REPLACES	LED POWER	SYSTEM POWER	ENERGY SAVINGS*	BASE	CCT		DIMENSIONS
<b>LED-8088E 50W</b> SHOE BOX/WALL PACK	LED-8088E40-MHBC	LED-8088E40-MHBC	5188	175W	50W	91W	110W	E26 Edison	4000K	✓	7.9" x 3.75"
	LED-8088E57-MHBC	LED-8088E57-MHBC	6282						5700K	✓	
<b>LED-8088M 50W</b> SHOE BOX/WALL PACK	LED-8088M40-MHBC	LED-8088M40-MHBC	5188	175W	50W	91W	110W	E39 Mogul	4000K	✓	8.5" x 3.75"
	LED-8088M57-MHBC	LED-8088M57-MHBC	6282						5700K	✓	
<b>LED-8089M 80W</b> SHOE BOX/WALL PACK	LED-8089M40-MHBC	LED-8089M40-MHBC	7941	250W	80W	101W	186W	E39 Mogul	4000K	✓	11.4" x 4.3"
	LED-8089M50-MHBC	LED-8089M50-MHBC	7635						5000K	✓	
<b>LED-8090M 120W</b> SHOE BOX/WALL PACK	LED-8090M40-MHBC	LED-8090M40-MHBC	9929	400W	120W	164W	296W	E39 Mogul	4000K	✓	11.4" x 4.3"
	LED-8090M50-MHBC	LED-8090M50-MHBC	10810						5000K	✓	

VOLTAGE: MH BALLAST ONLY • >80 CRI • 50,000 HOUR RATED LIFE • 5 YEAR WARRANTY

\*Energy Savings is calculated using the wattage you are replacing multiplied by 1.15, then subtracting the system power from that number.

For example, using LED-8090M the calculation is:  
400W x 1.15 = 460  
460 - 154 = **306W Savings**

Step-down transformers available for 480V applications

MTM01606224C 160VA  
MTM00506224C 50VA

While supplies last



ON ALL MODELS

Utility Patent Pending 14/710,301



# RECESSED CAN

## Ballast Bypass—Internal Driver

Smartest choice for energy savings



- ▶ Broadest selection of products
- ▶ Eliminates the worry of ballast failure



**30W**  
**LED-8055E\***  
 Replaces up to 100W  
 120° beam angle  
 Edison base



**30W**  
**LED-8055M\***  
 Replaces up to 100W  
 120° beam angle  
 Mogul base



Penetrating light—  
optimal for high ceilings!



**50W**  
**LED-8045M**  
 Replaces up to 175W  
 45° beam angle

## Ballast Bypass—External Driver

Silent operation means less disturbance in your environment



- ▶ External driver can be mounted up to 250' away
- ▶ Dimmable with required LED dimming controller



### Dimmable 3 Ways!

- ▶ 0-10V DC dimming
- ▶ PWM (Pulse Width Modulation)
- ▶ Resistive



**30W**  
**LED-8081E**

Replaces up to  
 100W HID or 300W  
 Halogen  
 120° beam angle  
 Edison base



**45W**  
**LED-8082M**

Replaces up to  
 175W HID or 500W  
 Halogen  
 120° beam angle  
 Mogul base



### External Driver



can be mounted up to 250' away!





For use in 6-inch (or larger) recessed fixtures



ON ALL MODELS  
except LED-8081  
and LED-8082

Ballast Bypass – Internal Driver   SERIES 1										
DESCRIPTION			LUMENS	REPLACES	LED POWER	BASE	CCT			DIMENSIONS
<b>LED-8055E</b> 30W HI-POWER RECESSED CAN	LED-8055E27	LED-8055E27C	2537	100W	30W	E26 Edison	2700K	✓		6" x 4.7"
	LED-8055E42	LED-8055E42C	2841				4200K	✓		
	LED-8055E57	LED-8055E57C	2885				5700K	✓		
<b>LED-8055M</b> 30W HI-POWER RECESSED CAN	LED-8055M27	LED-8055M27C	2537	100W	30W	E39 Mogul	2700K	✓	✓	6.8" x 4.7"
	LED-8055M42	LED-8055M42C	2841				4200K	✓	✓	
	LED-8055M57	LED-8055M57C	2885				5700K	✓	✓	
<b>LED-8045M</b> 50W HI-POWER RECESSED CAN	LED-8045M27	LED-8045M27C	3506	175W	50W	E39 Mogul	2700K	✓	✓	7.1" x 4.7"
	LED-8045M42	LED-8045M42C	4341				4200K	✓	✓	
	LED-8045M50	LED-8045M50C	4686				5000K	✓	✓	
<b>LED-8055</b> 30W POOL/SPA COLOR CHANGING	LED-8055EC	NA	NA	>300W Halogen	30W	E26 Edison	NA	✓		6" x 4.7"
<b>LED-8055</b> 30W POOL/SPA WHITE	LED-8055EW	NA	NA	>300W Halogen	30W	E26 Edison	NA	✓		6" x 4.7"
Ballast Bypass – External Driver   SERIES 2										
<b>LED-8081E</b> 30W RECESSED CAN w/External Driver DIMMABLE	LED-8081E27	LED-8081E27 (120V)	2927	100W HID or 300W Quartz Halogen	30W	E26 Edison	2700K	✓		8.25" x 5"
	LED-8081E40	LED-8081E40 (120V)	3509				4200K	✓		
	LED-8081E57	LED-8081E57 (120V)	3567				5700K	✓		
<b>LED-8082M</b> 45W RECESSED CAN w/External Driver DIMMABLE	LED-8082M27	LED-8082M27 (120V)	3985	175W HID or 500W Quartz Halogen	45W	E39 Mogul	2700K	✓	✓	8.5" x 4.9"
	LED-8082M40	LED-8082M40 (120V)	5010				4000K	✓	✓	
	LED-8082M57	LED-8082M57 (120V)	5229				5700K	✓	✓	
VOLTAGE:  120-277VAC  120-347VAC • >80 CRI • 50,000 HOUR RATED LIFE • 5 YEAR WARRANTY										



# POST TOP

## Ballast Bypass—Internal Driver

SERIES 1

- ▶ Eliminates the worry of ballast failure
- ▶ Smartest choice for energy savings



All models feature top-mounted LEDs



	<p><b>35W</b> <b>LED-8033E-A</b> Replaces up to 175W Edison base</p>		<p><b>35W</b> <b>LED-8033M-A</b> Replaces up to 175W Mogul base</p>		<p><b>45W</b> <b>LED-8024E-A</b> Replaces up to 250W Edison base</p>		<p><b>45W</b> <b>LED-8024M-A</b> Replaces up to 250W Mogul base</p>																		
	<p><b>65W</b> <b>LED-8046M-A</b> Replaces up to 320W Mogul base</p>		<p><b>100W</b> <b>LED-8027M-A</b> Replaces up to 400W Mogul base</p>	<div style="border: 2px solid green; padding: 5px; text-align: center;"> <p>ROI EXAMPLE</p> <table border="1"> <tr> <td><b>LED</b></td> <td><b>VS.</b></td> <td><b>HID</b></td> </tr> <tr> <td>45W</td> <td></td> <td>250W + 250W + 250W + 250W</td> </tr> <tr> <td colspan="3">Cost to Operate</td> </tr> <tr> <td colspan="3">\$0.11 per kWh / 50K Hours</td> </tr> <tr> <td>\$248</td> <td></td> <td>\$1,099</td> </tr> <tr> <td colspan="3"><b>\$851 SAVINGS!</b></td> </tr> </table> </div>				<b>LED</b>	<b>VS.</b>	<b>HID</b>	45W		250W + 250W + 250W + 250W	Cost to Operate			\$0.11 per kWh / 50K Hours			\$248		\$1,099	<b>\$851 SAVINGS!</b>		
<b>LED</b>	<b>VS.</b>	<b>HID</b>																							
45W		250W + 250W + 250W + 250W																							
Cost to Operate																									
\$0.11 per kWh / 50K Hours																									
\$248		\$1,099																							
<b>\$851 SAVINGS!</b>																									

Coming Q1 2018

## Ballast Bypass—External Driver

SERIES 2

- ▶ Unique and innovative shape mimics that of traditional HID lamps
- ▶ Dimmable with required LED dimming controller



Dimmable 3 Ways!

- ▶ 0-10V DC dimming
- ▶ PWM (Pulse Width Modulation)
- ▶ Resistive



	<p><b>30W</b> <b>LED-8083E</b> Replaces up to 100W Edison base</p>	<p><b>45W</b> <b>LED-8084M</b> Replaces up to 175W Mogul base</p>	<p><b>60W</b> <b>LED-8085M</b> Replaces up to 250W Mogul base</p>
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External Driver can be mounted up to 250' away!



## 8 Models to Choose From!



Maintain your current fixture style with an energy efficient, easy retrofit!



Ballast Bypass – Internal Driver   SERIES 1										
DESCRIPTION			LUMENS	REPLACES	LED POWER	BASE	CCT			DIMENSIONS
<b>LED-8033E-A</b> 35W POST TOP SITE LIGHTING	LED-8033E30-A	LED-8033E30C-A	4239 - 120V 4740 - 347V	175W	35W	E26 Edison	3000K	✓		8.3" x 3.3"
	LED-8033E40-A	LED-8033E40C-A	5468 - 120V 5671 - 347V				4000K	✓		
	LED-8033E57-A	LED-8033E57C-A	5617 - 120V 5537 - 347V				5700K	✓		
<b>LED-8033M-A</b> 35W POST TOP SITE LIGHTING	LED-8033M30-A	LED-8033M30C-A	4239 - 120V 4740 - 347V	175W	35W	E39 Mogul	3000K	✓	✓	8.5" x 3.3"
	LED-8033M40-A	LED-8033M40C-A	5468 - 120V 5671 - 347V				4000K	✓	✓	
	LED-8033M57-A	LED-8033M57C-A	5617 - 120V 5537 - 347V				5700K	✓	✓	
<b>LED-8024E-A</b> 45W POST TOP SITE LIGHTING	LED-8024E30-A	LED-8024E30C-A	6062 - 120V 5879 - 347V	250W	45W	E26 Edison	3000K	✓		9.6" x 3.3"
	LED-8024E40-A	LED-8024E40C-A	6924 - 120V 6600 - 347V				4000K	✓		
	LED-8024E57-A	LED-8024E57C-A	6619 - 120V 6646 - 347V				5700K	✓		
<b>LED-8024M-A</b> 45W POST TOP SITE LIGHTING	LED-8024M30-A	LED-8024M30C-A	5893 - 120V 5856 - 347V	250W	45W	E39 Mogul	3000K	✓	✓	9.75" x 3.3"
	LED-8024M40-A	LED-8024M40C-A	6930 - 120V 6740 - 347V				4000K	✓	✓	
	LED-8024M57-A	LED-8024M57C-A	6632 - 120V 6818 - 347V				5700K	✓	✓	
<b>LED-8046M-A</b> 65W POST TOP SITE LIGHTING	LED-8046M30-A	LED-8046M30C-A	8450 - 120V 8471 - 347V	320W	65W	E39 Mogul	3000K	✓	✓	11.1" x 4.1"
	LED-8046M40-A	LED-8046M40C-A	9587 - 120V 9619 - 347V				4000K	✓	✓	
	LED-8046M57-A	LED-8046M57C-A	9499 - 120V 9440 - 347V				5700K	✓	✓	
<b>LED-8027M-A</b> 100W POST TOP SITE LIGHTING	LED-8027M30-A	LED-8027M30C-A	12486 - 120V 13304 - 347V	400W	100W	E39 Mogul	3000K	✓	✓	11.8" x 4.5"
	LED-8027M40-A	LED-8027M40C-A	14666 - 120V 14736 - 347V				4000K	✓	✓	
	LED-8027M57-A	LED-8027M57C-A	14613 - 120V 14349 - 347V				5700K	✓	✓	
Ballast Bypass – External Driver   SERIES 2										
<b>LED-8083E</b> 30W POST TOP w/External Driver DIMMABLE	LED-8083E30	LED-8083E30 (120V)	3661	100W	30W	E26 Edison	3000K	✓		6.5" x 3.1"
	LED-8083E40	LED-8083E40 (120V)	3919				4000K	✓		
	LED-8083E57	LED-8083E57 (120V)	3955				5700K	✓		
<b>LED-8084M</b> 45W POST TOP w/External Driver DIMMABLE	LED-8084M30	LED-8084M30 (120V)	4062	175W	45W	E39 Mogul	3000K	✓	✓	10.6" x 4.25"
	LED-8084M42	LED-8084M42 (120V)	4273				4200K	✓	✓	
	LED-8084M57	LED-8084M57 (120V)	4509				5700K	✓	✓	
<b>LED-8085M</b> 60W POST TOP w/External Driver DIMMABLE	LED-8085M30	LED-8085M30 (120V)	5326	250W	60W	E39 Mogul	3000K	✓	✓	10.6" x 4.25"
	LED-8085M42	LED-8085M42 (120V)	5807				4200K	✓	✓	
	LED-8085M57	LED-8085M57 (120V)	6130				5700K	✓	✓	

VOLTAGE: 120-277VAC 120-347VAC • >80 CRI • 50,000 HOUR RATED LIFE • 5 YEAR WARRANTY



ON ALL MODELS  
except LED-8083, LED-8084  
and LED-8085

Step-down transformers  
available for 480V applications

MTM01606224C 160VA  
MTM00506224C 50VA



# BOLLARD

## Ballast Bypass the—Internal Driver

SERIES 1  
1



All models feature top-mounted LEDs



- ▶ Eliminates the worry of ballast failure
- ▶ Smartest choice for energy savings



**14W**  
**LED-8038E-A**

Replaces up to 70W

Edison base



**18W**  
**LED-8039E-A**

Replaces up to 100W

Edison base



**24W**  
**LED-8029E-A**

Replaces up to 150W

Edison base



**24W**  
**LED-8029M-A**

Replaces up to 150W

Mogul base



Ballast Bypass – Internal Driver   SERIES 1										
DESCRIPTION			LUMENS	REPLACES	LED POWER	BASE	CGT			DIMENSIONS
<b>LED-8038E-A</b> <b>14W</b> BOLLARD JELLY JAR SITE LIGHTING	LED-8038E30-A	LED-8038E30-A (120V) LED-8038E30C-A (347V)	1840 - 120V 1789 - 347V	70W	14W	E26 Edison	3000K	✓		5.4" x 2.6"
	LED-8038E40-A	LED-8038E40-A (120V) LED-8038E40C-A (347V)	2065 - 120V 2037 - 347V				4000K	✓		
	LED-8038E57-A	LED-8038E57-A (120V) LED-8038E57C-A (347V)	2217 - 120V 2155 - 347V				5700K	✓		
<b>LED-8039E-A</b> <b>18W</b> BOLLARD JELLY JAR SITE LIGHTING	LED-8039E30-A	LED-8039E30-A (120V) LED-8039E30C-A (347V)	2758 - 120V 2919 - 347V	100W	18W	E26 Edison	3000K	✓		6.1" x 2.6"
	LED-8039E40-A	LED-8039E40-A (120V) LED-8039E40C-A (347V)	2983 - 120V 3053 - 347V				4000K	✓		
	LED-8039E57-A	LED-8039E57-A (120V) LED-8039E57C-A (347V)	2465 - 120V 2695 - 347V				5700K	✓		
<b>LED-8029E-A</b> <b>24W</b> BOLLARD POST TOP SITE LIGHTING	LED-8029E30-A	LED-8029E30-A (120V) LED-8029E30C-A (347V)	3024 - 120V 3099 - 347V	150W	24W	E26 Edison	3000K	✓		6.75" x 2.9"
	LED-8029E40-A	LED-8029E40-A (120V) LED-8029E40C-A (347V)	3422 - 120V 3568 - 347V				4000K	✓		
	LED-8029E57-A	LED-8029E57-A (120V) LED-8029E57C-A (347V)	3425 - 120V 3426 - 347V				5700K	✓		
<b>LED-8029M-A</b> <b>24W</b> BOLLARD POST TOP SITE LIGHTING	LED-8029M30-A	LED-8029M30-A (120V) LED-8029M30C-A (347V)	3431 - 120V 3129 - 347V	150W	24W	E39 Mogul	3000K	✓	✓	7" x 2.9"
	LED-8029M40-A	LED-8029M40-A (120V) LED-8029M40C-A (347V)	3374 - 120V 3405 - 347V				4000K	✓	✓	
	LED-8029M57-A	LED-8029M57-A (120V) LED-8029M57C-A (347V)	3374 - 120V 3165 - 347V				5700K	✓	✓	

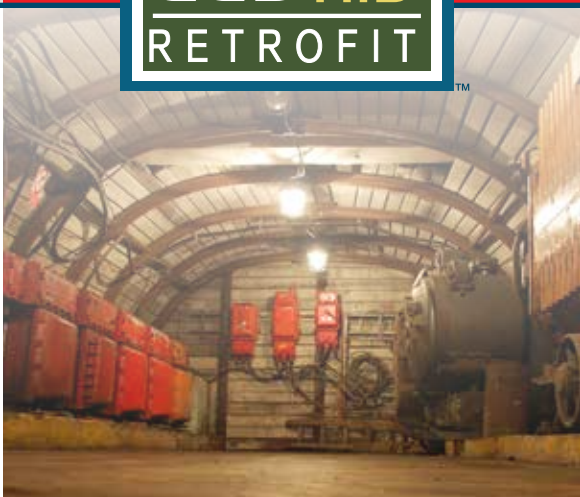
VOLTAGE: 120-277VAC 347VAC • >80 CRI • 50,000 HOUR RATED LIFE • 5 YEAR WARRANTY



ON ALL MODELS  
except LED-8038  
and LED-8039



# HAZARDOUS LOCATION



## Ballast Bypass—Internal Driver SERIES 1

- ▶ Eliminates the worry of ballast failure
- ▶ Smartest choice for energy savings



All models feature top-mounted LEDs



### 24W LED-8929M-HAZ

Replaces up to 150W

Mogul base



### 24W LED-8929E-HAZ

Replaces up to 150W

Edison base



Perfect retrofit for hazardous locations such as:

- Nuclear Reactor Sites
- Oil Refineries
- Oil Rigs
- Mine Tunnels

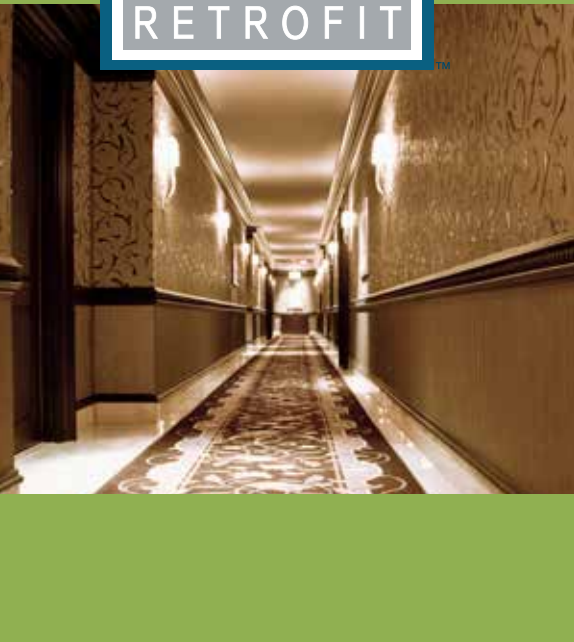
Approved for **Hazardous Location: Class 1, Division 2**

See our website for a list of approved fixtures

Ballast Bypass – Internal Driver   SERIES 1										
DESCRIPTION			LUMENS	REPLACES	LED POWER	BASE	CGT			DIMENSIONS
<b>LED-8929E</b> 24W HAZARDOUS LOCATION LIGHTING	LED-8929E-HAZ	LED-8929E-HAZ	3425	150W	24W	E26 Edison	5700K	✓		6.75" x 2.9"
<b>LED-8929M</b> 24W HAZARDOUS LOCATION LIGHTING	LED-8929M-HAZ	LED-8929M-HAZ	3374	150W	24W	E39 Mogul	5700K	✓	✓	7" x 2.9"

VOLTAGE: 120-277VAC • 120-277VAC • >80 CRI • 50,000 HOUR RATED LIFE • 5 YEAR WARRANTY





PL

**10W**  
**LED-7306**  
**LED-7308**



Replaces up to 26W

Long lasting LED alternative for walls or recessed areas in offices, hotels, lobbies, schools, etc.

**11W**  
**LED-7324**



Replaces up to 26W

**11W**  
**LED-7320**



Replaces up to 26W

**12W**  
**LED-7318**



Replaces up to 26W

DESCRIPTION			LUMENS	REPLACES	LED POWER	BASE	BEAM ANGLE	CCT	DIMENSIONS	COMPATIBILITY	BASE ORIENTATION
<b>LED-7311</b> 7W PL - 2 PIN UNIVERSAL	LED-7311-27A	NA	815	Up to 26W	7W	G23-2	120°	2700K	5.75" x 1.37"	Magnetic + Line Voltage	Horizontal
	LED-7311-35A	NA	883					3500K			
	LED-7311-40A	NA	892					4000K			
<b>LED-7312</b> 7W PL - 2 PIN UNIVERSAL	LED-7312-27A	NA	801	Up to 18W	7W	GX23-2	120°	2700K	5.75" x 1.37"	Magnetic + Line Voltage	Horizontal
	LED-7312-35A	NA	899					3500K			
	LED-7312-40A	NA	914					4000K			
<b>LED-7322</b> 7W PL - 2 PIN UNIVERSAL	LED-7322-27A	NA	849	Up to 26W	7W	G24d	120°	2700K	5.75" x 1.37"	Magnetic + Line Voltage	Horizontal
	LED-7322-35A	NA	869					3500K			
	LED-7322-40A	NA	887					4000K			
<b>LED-7324</b> 11W PL - 4 PIN UNIVERSAL	LED-7324-27K-G2	NA	900	Up to 26W	11W	G24q and GX24q	120°	2700K	5.75" x 1.37"	Electronic Ballast + Line Voltage	Horizontal
	LED-7324-35K-G2	NA	1200					3500K			
	LED-7324-40K-G2	NA	1200					4000K			
<b>LED-7306</b> 10W PL - 2 PIN UNIVERSAL	LED-7306-35A	LED-7306-35C-A	1043	26W	10W	G24d	120°	3500K	6.11" x 3.78"	Magnetic + Line Voltage	Vertical
	LED-7306-42A	LED-7306-42C-A	1071					4200K			
<b>LED-7308</b> 10W PL - 4 PIN BALLAST BYPASS	LED-7308-35A	LED-7308-35C-A	1085	26W	10W	G24q	120°	3500K	6.11" x 3.78"	Line Voltage	Vertical
	LED-7308-42A	LED-7308-42C-A	1037					4200K			
<b>LED-7318</b> 12W PL - 4 PIN UNIVERSAL	LED-7318-27A	NA	837	26W	12W	G24q and GX24q	140°	2700K	3.78" x 2.99"	Electronic Ballast + Line Voltage	Vertical
	LED-7318-35A	NA	1157					3500K			
	LED-7318-40A	NA	1198					4000K			
<b>LED-7320</b> 11W PL - 4 PIN UNIVERSAL	LED-7320-27A	NA	1065	26W	11W	G24q	360°	2700K	6.2" x 1.4"	Electronic Ballast + Line Voltage	Omni-directional
	LED-7320-35A	NA	1100					3500K			
	LED-7320-40A	NA	1167					4000K			

**7W**  
**LED-7311**

Replaces 26W

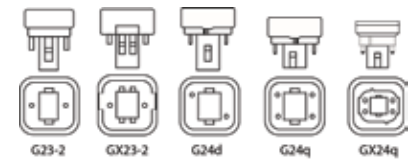
**7W**  
**LED-7312**

Replaces 13-18W



**7W**  
**LED-7322**

Replaces up to 26W



VOLTAGE: 120-277VAC 120-347VAC • >80 CRI • >25,000 HOUR RATED LIFE • 5 YEAR WARRANTY





# LINEAR T8 TUBE



## Energy-Saving Replacement for Fluorescent T8 Tubes

### Ballast Bypass—Internal Driver



**10W**

**LED-6111**

Replaces up to 17W

**2 foot**

**15W**

**LED-6123**

Replaces up to 25W

**3 foot**

**18W**

**LED-6115**

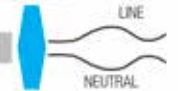
Replaces up to 32W

**4 foot**

SINGLE-ENDED POWER



NON-SHUNTED LAMPHOLDER



### Ballast Compatible—Plug 'n Play



**18W**

**LED-6204**

Replaces up to 32W

**4 foot**



Ballast Bypass – Internal Driver   SERIES 1									
DESCRIPTION			LUMENS	REPLACES	LED POWER	BASE	CCT		DIMENSIONS
<b>4' T8 LED 18W</b> FROSTED LENS	LED-6115-4-40K-TFR	NA	2252	32W	18W	G13	4000K	✓	47.2" x 1.125"
	LED-6115-4-50K-TFR	NA	2297				5000K	✓	
<b>2' T8 LED 10W</b> FROSTED LENS	LED-6111-UL-2-40K-BFR	NA	1000	17W	10W	G13	4000K	✓	23.1" x 1.125"
<b>3' T8 LED 15W</b> FROSTED LENS	LED-6123-UL-3-40K-BFR	NA	1346	25W	15W	G13	4000K	✓	35.1" x 1.125"
Ballast Compatible - Plug 'n Play   SERIES 3									
<b>4' T8 LED 18W</b> FROSTED LENS	LED-6204-4-40K-TFR	LED-6204-4-40K-TFR	1880	32W	18W	G13	4000K	✓	47.2" x 1.125"
	LED-6204-4-50K-TFR	LED-6204-4-50K-TFR	1880				5000K	✓	

VOLTAGE: 120-277VAC • >80 CRI • 50,000 HOUR RATED LIFE • 5 YEAR WARRANTY



SimuLight grow lights provide a reliable and effective solution for agricultural lighting. Using the latest scientific research, SimuLight grow lights help growers achieve higher yields and ROI.

Ideal for use in:  
**Greenhouses and Indoor Grows**  
**Hydroponics and Aquaponics**  
**Vertical Grows**  
**Custom Applications**

**Basic Grow Light Fixture**

**Commercial Grow Light Retrofits**



**125W**  
**LED-9650G-T**  
 Replaces up to 250W

**17W**  
**LED-9670G**  
 Replaces up to 32W  
**4 foot**



**150W**  
**LED-8032MGB**  
 Replaces up to 400W  
**EX39 base**



**Variable Spectrum Programmable Grow Light Fixtures**



**180W**  
**LED-9611G**  
 Replaces up to 400W



**360W**  
**LED-9613G**  
 Replaces up to 600W



**540W**  
**LED-9614G**  
 Replaces up to 1000W



**LED-9620GA**  
 Remote Control

**Commercial Grow Light Fixtures**

**150W**  
**LED-9640G**  
 Replaces up to 400W

**600W**  
**LED-9640G**  
 Replaces up to 1200W



Whatever Your Crop,  
 Whatever Your Season...  
**Grow It Right**  
**with SimuLight!**

# LED HORTICULTURAL LIGHTING SOLUTIONS

## LED Grow Lights - Features and Benefits

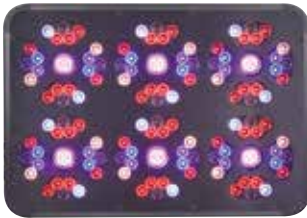
Energy Efficiency

Reliability

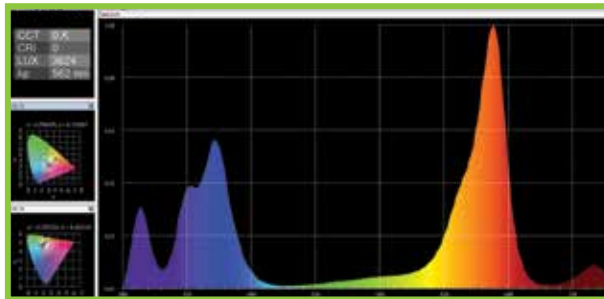
Productivity

Lower Heat Output

Targeted Spectrum



LED-9614G pictured



DESCRIPTION	MODEL	REPLACES	LED POWER	BEAM ANGLE	SPECTRUM	CERT	WEIGHT (LBS)	DIMENSIONS
<b>GROW LIGHT RETROFITS</b> VOLTAGE: 120-277 VAC • UL • 5 YEAR LIMITED WARRANTY								
<b>LED-9670 17W</b> 4' LINEAR RETROFIT	LED-9670-GR-UL-4-FC-S	32W	17W	120°	Full Spectrum and Deep Red	UL US	.81	47.75" x 1" x 1.2"
<b>LED-8032 150W</b> RETROFIT	LED-8032MGB LED-8032MGBC	400W	150W	120°	UV, Blue, Green, Red, Far Red	UL LISTED	3.96	9.5" x 9.1"
<b>GROW LIGHT FIXTURES</b> VOLTAGE: 120-240 VAC • CE • 3 YEAR LIMITED WARRANTY								
<b>LED-9650G 125W</b> FIXTURE	LED-9650G-T	250W	125W	70°	Full Cycle Spectrum: UV, B, G, R, FR and Broad Spectrum	CE	6.0	14" x 9" x 2.5"
<b>COMMERCIAL GROW LIGHT FIXTURE</b> VOLTAGE: 120-277 VAC • UL LISTED IP65 • 5 YEAR LIMITED WARRANTY								
<b>LED-9640G 150W</b> COMMERCIAL	LED-9640G-A1-150S	Up to 320W	150W	90°	Full Cycle Grow Spectrum, Blue, White & Red	UL LISTED	13.00	41" x 8" x 7"
<b>LED-9640G 600W</b> COMMERCIAL	LED-9640G-A1-600S	Up to 1000W	600W	90°	Full Cycle Grow Spectrum, Blue, White & Red	UL LISTED	50.00	42" x 37" x 7"
<b>VARIABLE SPECTRUM GROW LIGHT FIXTURE</b> VOLTAGE: 100-277 VAC • CE • 2 YEAR LIMITED WARRANTY								
<b>LED-9611G 180W</b> PROGRAMMABLE	LED-9611G	Up to 300W	180W	78°-105°	3 CH Veg/Bloom/Grow/All-on. Full Spectrum with UV, IR.	CE	6.60	9" x 15" x 3"
<b>LED-9613G 360W</b> PROGRAMMABLE	LED-9613G	Up to 600W	360W	78°-105°	3 CH Veg/Bloom/Grow/All-on. Full Spectrum with UV, IR.	CE	11.60	15" x 15" x 3"
<b>LED-9614G 540W</b> PROGRAMMABLE	LED-9614G	Up to 1000W	540W	78°-105°	3 CH Veg/Bloom/Grow/All-on. Full Spectrum with UV, IR.	CE	15.90	21" x 15" x 3"
<b>ACCESSORIES</b>								
<b>LED-9620</b> REMOTE CONTROL	LED-9620GA		Optional accessories include a remote control which allows the user to dim and program the lights for a 24-hour schedule. Inter-connection cables are also available to daisy chain the lights to share a program and/or power source. Please see your distributor for details.					

## Find Your Sales Representative



- |  |   |  |   |
|--|---|--|---|
| 1 Hallmarketing – WA/AK<br>503-265-8028            | 12A Electra Sales – N. TX<br>972-554-8200             | 21 Gizmo Consulting – LA<br>225-454-6819                                       | 29 Paolicelli & Assoc. – PA/WV<br>412-276-8816          |
| 2 Pro-Lines Sales & Marketing – OR<br>503-692-6993 | 12B ETEL – S. TX<br>713-678-4460                      | 22A JE Heusser Agency – AL/FL panhandle<br>205-936-8513                        | 30 Hudson Allianz – VA<br>804-282-1864                  |
| 3 Electro Rep – CA/N. NV<br>415-332-4100           | 13 Electra Sales – OK<br>918-688-1863                 | 22B Bishop & Brogdon – GA<br>404-494-4333                                      | 31 R.C. Colerick – MD/W. DC<br>410-421-9511             |
| 4 Desert States – Las Vegas<br>602-268-7008        | 14 RB Sales Corporation – KS/W. MO<br>816-350-1114    | 23 Gorin Cockrell McCoy – FL<br>800-241-8657                                   | 32 Synergy Elec. Sales – E. PA/S. NJ/DE<br>215-428-1130 |
| 7 Hallmarketing – ID<br>503-265-8028               | 15 RB Sales Corporation – IA/NE/W. IL<br>319-373-8877 | 24 E.F. Lombardi – NC/SC<br>704-334-1637                                       | 33 Damin Sales – Metro NYC/N. NJ<br>732-985-8866        |
| 8 Wilson Sales – UT/ID<br>801-292-4867             | 16 Lee Noonan – MN/ND/SD<br>763-560-1228              | 25 Electrical Sales Assoc. – TN<br>615-242-2774                                | 35 RD Wright – NY North of Westchester<br>518-966-5980  |
| 9 Desert States – AZ<br>602-268-7008               | 17 Engineered Rep. Inc. – WI<br>920-751-3922          | 26 Hasselbach & Assoc. – KY/OH<br>N. OH - 216-403-0180<br>S. OH - 513-771-9909 | 36 Flynn & Reynolds – MA/CT/RI/ME/VT<br>978-454-1098    |
| 10 Electrical Lines – CO/WY/MT<br>303-722-5721     | 18 McDonald & Assoc. – IL<br>847-577-0888             | 27 New Century Sales – IN<br>317-334-9697                                      | 37 Pacific Rim Connections – HI<br>808-847-0007         |
| 11 Mountain State Agency – NM<br>505-867-5805      | 19 Martin Electrical Sales – E. MO<br>314-966-8659    | 28 Team Electrical – MI<br>313-874-1000  |   |
|  | 20 Byron-Carson – AR/N. MS/W. TN<br>901-276-0614      |  |   |



## Canada

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|---|--|
| 1 Pacific Coast Agency<br>British Columbia<br>604-457-1555              | 4 Humelec Associates<br>Ontario<br>905-276-3301  |
| 2 Brydan Sales<br>Alberta<br>780-328-1520                               | 5 Agence Ricard<br>Quebec<br>514-250-5043  |
| 3 Industrial Solutions Network<br>Saskatchewan/Manitoba<br>306-242-2599 | 6 Munden Enterprises<br>New Brunswick/Newfoundland<br>Prince Edward Island<br>902-405-8545 |

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