

















Lighting Upgrade Manual





Why You Should Consider Upgrading Your Lighting

Reduce your total cost of ownership with an energy-efficient lighting upgrade from LSI. From the parking lot throughout the site, LSI has lighting products to fit your requirements. Using pulse-start lamps, vertical burn technology and high performance reflectors, LSI can dramatically improve the appearance of your site efficiently and economically 24 hours a day.

Remember, over a 10-year period, the capital cost of your lighting package will only be 10% of the total cost of ownership. The balance, 20% installation / maintenance and 70% energy are your greatest cost of ownership. LSI lighting products will have the greatest affect on your bottom line.

What a Lighting Upgrade Means to You

The ability to bring your current lighting up to today's new standards without adding additional fixtures.

- Marketing impact due to greater long-range visibility, which draws customers to your site as they approach.
- Improved safety for customers and employees which means increased sales and reduced employee turnover.
- Increased vertical illumination making the overall site brighter and more inviting.
 - Building Walls
- Spanners
- Pump Faces
- Fascia
- Column Cladding
- Entrance/Exit Areas
- Parking Lot
- Improved light levels while reducing electrical power bills.
- Color consistency from all fixtures.

Your Options:

- 1. Do nothing and let the competition eat you alive
- 2. Go for a low budget option get adequate lighting performance for a relatively low cost but recognize that it is not a long-term solution.
- 3. Invest in the best longterm solution and make your competition eat its heart out!

Canopy Lighting Upgrades

Upgrade your canopy with one of LSI's family of upgrade options, using either the 250 or 320 watt Pulse-Start Metal Halide lamps. The LSI upgrade will increase your site's visibility while reducing energy cost 20 - 50%. Many options feature ground relamping which reduces your maintenance cost.



Focus RECU SuperKit® -Recessed









Adjustable Focus RECU SuperKit® - Recessed

RECU SuperKit® - Recessed Panel Retrofit Kit

SuperKit® (Standard or Universal)-2x2

Typical Canopy Cost Analysis Over 1 Year (40' x 90' Canopy / 6 Dispensers)				
FIXTURETYPE	# OF FIXTURES	KWH/YEAR	\$/YEAR	SAVINGS/YEAR
400W DAKOTA	24	48,145	\$ 3,851	\$ 0
320W SCOTTSDALE	18	29,013	\$ 2,321	\$ 1,530
250W ENCORE FLAT LENS & 100W ENCORE FOCUS	8 12	16,872	\$ 1,349	\$ 2,502
200W ENCORE LOW PROFILE, 100W ENCORE FOCUS & ADJUSTABLE FOCUS	8 12	15,014	\$ 1,201	\$ 2,650

.08 / KWH, 12-HOUR / DAY, 365 DAYS A YEAR FIXTURE X FIXTURE WATTAGE X 12 X 365 / 1,000 = \$/YEAR



Flat Lens Panel Retrofit Kit

Area Lighting Upgrades

Additional savings can be achieved by upgrading your site lighting to one of LSI's high performance, energy efficient fixtures. Using LSI's Internal Fitter, you can easily upgrade using existing 4" or 5" square poles (with a wall thickness of 11 ga. (0.120") or 7 ga. (0.180").



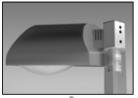
Citation® II

Reduced Wattage/Pulse-Start Fixtures

Typical Existing 5 Pole Lighting			
Your Fixture Choice	Operating Costs Per Year	Your Savings Per Year	
Retrofit with Single 1000 Watt Standard Metal Halide Product	\$1892	\$0	
Upgrade with Twin 400 Watt Super Metal Halide Challengers	SAVE 15% \$1612	\$280	
Upgrade with Single 750 Watt Pulse-Start Metal Halide (PSMV) Challenger	\$1489 SAVE	\$403	



Greenbriar® Reduced

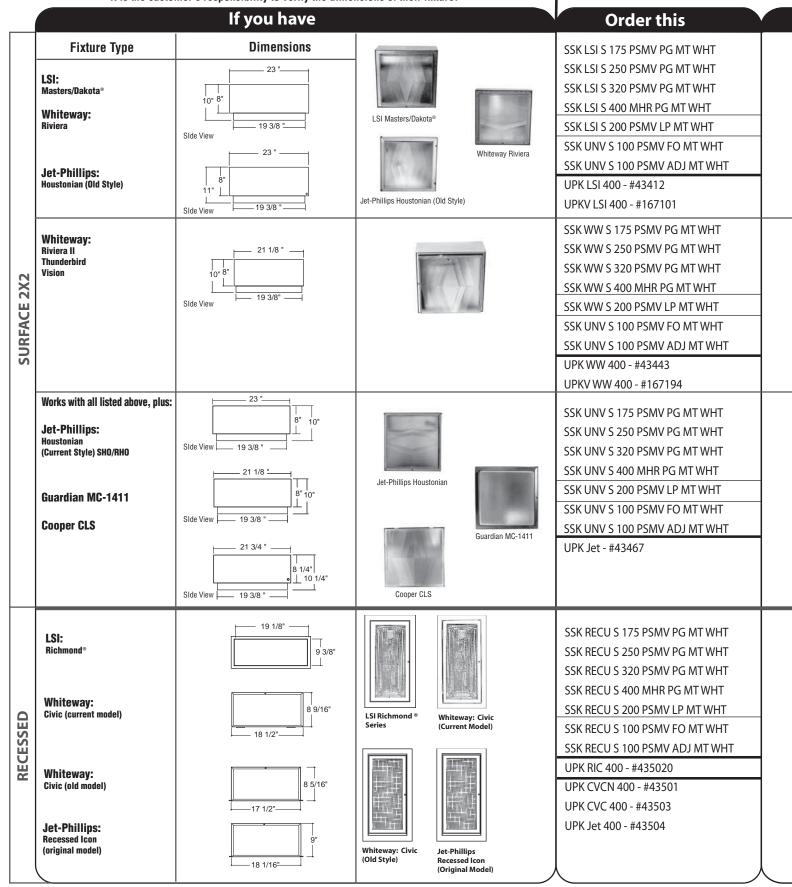


Challenger®

SUPERKIT® & UPK UPGRADES

Identify your existing fixture and select your SuperKit accordingly. See Ordering Chart for complete offerings.

It is the customer's responsibility to verify the dimensions of their fixture.



SUPERKIT

To receive PG Optics LP Optics FO Optics UPKV Kit

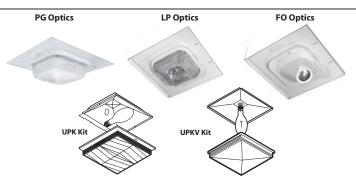
Kit consists of

Fully assembled SuperKit includes:

- Plate
- Lens
- Lamp
- Ballast

UPK Kit includes:

- Lamp - Lens/ Frame - Reflector For Jet-Phillips old Style, order UPKLSI plus socket #4208602



Fully assembled SuperKit includes:

- Plate
- Lens
- Lamp
- Ballast

UPK Kit includes:

- Lamp - Lens/Frame - Reflector







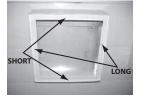
Adjustable FO Optics



UNIVERSAL SUPERKIT

Fully assembled Universal SuperKit includes:

- Plate
- Lens
- Lamp
- Ballast
- Adaptor Brackets (set of 4)



Four adaptor brackets for retrofitting your existing canopy fixture



- Lamp - Lens - Socket - Reflector

Fully assembledSuperKit includes:





LP Optics



Adjustable FO Optics



- Lamp
- Ballast

PG Optics



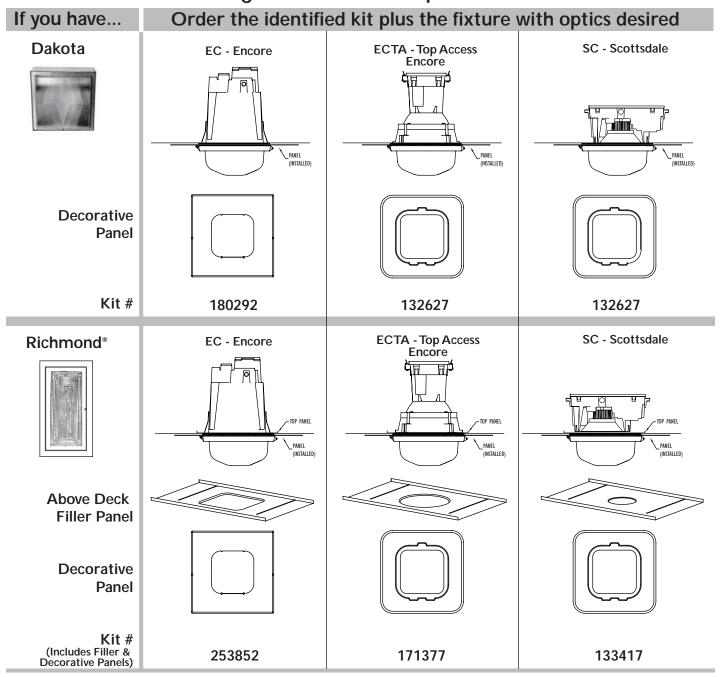


UPK includes: - Lamp - Lens/Frame - Reflector

UPK includes:

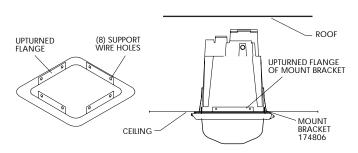
- Lamp
- Lens/Frame
- Reflector

Improved Lighting and Reduced Energy Through Product Replacement



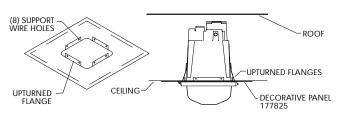
Double Deck Mounting

DDM - DOUBLE DECK MOUNTING BRACKET (ORDER NUMBER 174806)



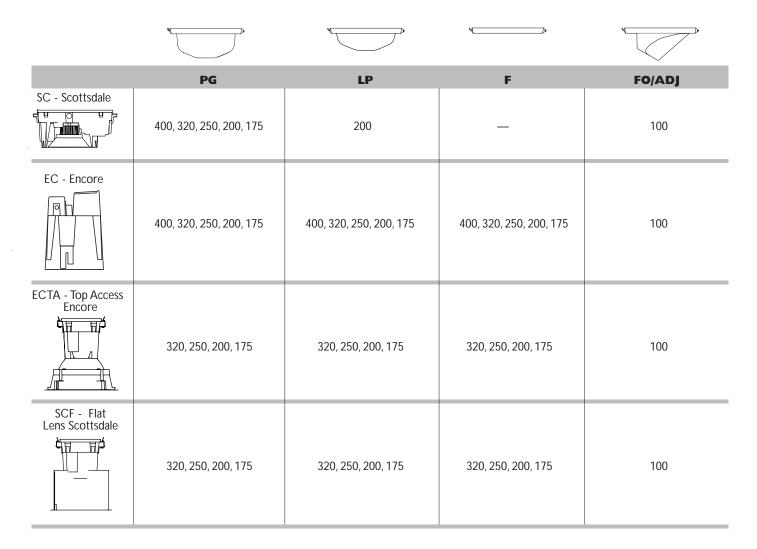
DDM - For use in covered areas (i.e. water proof plenum) where ceiling material will not support the fixture or access is not available from above to utilize standard locking ring.

DDRMP - DOUBLE DECK RETROFIT MOUNTING PANEL (ORDER NUMBER 177825)



DDRMP - Decorative retrofit panel is for use on double deck canopies only. Panel will structurally support the Encore while covering an opening up to 600mm by 600mm. For use in covered areas only (i.e water proof plenum).

Existing Fixture Retrofit



Optic Assem (Gasket & Gl		Part #
	PG	231041
	LP	231040
	Flat	231043
	C73	231045
	FO	177684
	ADJ	263878

Ballasts - Pulse (Ballasts, Capacit	•	Part #
100 Watt PSMV	w/o feet	EH0400AA
	w/ feet	178597Z
175 Watt PSMV	w/o feet	156891
	w/ feet	153865
200 Watt PSMV	w/o feet	177453
	w/ feet	177714
250 Watt PSMV	w/o feet	146681
	w/ feet	147852
320 Watt PSMV	w/ removable fee	t 151262
400 Watt MH	w/o feet	EH0271A
	w/ feet	200610

250 Watt PSMV	146684
320 Watt PSMV	22187Z
400 Watt MHR	22159

Lamps - Pulse Start Metal Halide

100 Watt PSMV

175 Watt PSMV

200 Watt PSMV

Part #

175992

153864

177426

Note: Fixture requiring ballast w/ feet - SCSM, SSK Fixture requiring ballast w/o feet - ECTA, SC, EC, SCF

Area Light Survey

Please identify and document the specifications for each area light on the site. If more than one type of area light fixture is used, be sure to indicate these fixtures in the additional space provided. Complete a separate page for each type of fixture assembly; label each accordingly (i.e. Type A, Type B, etc.) and show location on a sketch or drawing.

les with this type of fixtur	re)		
O Single Head	ODoub	le Head - 90°	
O Double Head - 18	30° Triple Head - 120°		
OBronze	\bigcirc White	OPlatinum	\bigcirc Black
○ Challenger®	○ Greenbriar®	○ Citation®	
○ Classic	\bigcirc Starbeam	○ Flood	
O 400 Watt	O 1000 Watt		
4 "	○ 5"	O 6"	
Osquare	Round	O Round Tapered	
O Bolt on	○ Tenon	O Pole Top	
e C Replace	Internal Slipfitter (4" & 5" square poles only)		
O 16'	○ 20'	Other (write in)	
○ 3/4"	O 1"	O 1-1/4"	O 1-1/2"
or top to t circle can be			
Spaced	O Direct to Footer	O Direct Bury	
sual conditions and Draw	Diagram if Helpful		
	Single Head Double Head - 18 Bronze Challenger® Classic 400 Watt 4" Square Bolt on Replace 16' 3/4" ter * or top to t circle can be	Double Head - 180° Bronze White Challenger® Classic Starbeam 400 Watt 1000 Watt 4" Square Round Bolt on Tenon Replace Internal Slipfitter 16' 3/4" 1" Triple White Greenbriar® Starbeam Number of	Single Head Double Head - 90° Double Head - 120° Bronze White Platinum Challenger® Greenbriar® Classic Starbeam Flood 400 Watt 1000 Watt 4" 5" 6" Square Round Round Tapered Bolt on Tenon Pole Top Replace Internal Slipfitter (4"& 5" square poles only) 16' 20' Other (write in) 3/4" Ter* Or top to t circle can be Direct to Footer Direct Bury

Check out the full line of Petroleum/C-store lighting at www.lsi-industries.com





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