

SDERC Lighting Display

Street Lighting: A.L.P. Retrofit Kits

Technology Description: Retrofit kits for existing fixtures provide inexpensive lighting upgrades. Three kits are installed: 2x4 RDI (fixture #1), 2x2 RDI-ACR (fixture #8), and Pegasus (mobile display).

- The RDI 2x4 retrofit kit has a white perforated metal diffuser and parabolic blades along the center of the fixture. This kit was installed along with a white reflector. This fixture was originally an 18 cell parabolic.
- The RDI ACR 2x2 retrofit kit has a white acrylic diffuser and parabolic blades along the center of the fixture. The retrofit kit fits most standard recessed lensed or parabolic housings. This fixture was originally a 9 cell parabolic.
- The Pegasus retrofit kit converts a strip fixture to a much more aesthetically pleasing direct-indirect. Three basket options that shield the glare of bare bulbs are available: perforated basket, white acrylic lens, and fluted lens.

Applications: Although the RDI kits can be used to retrofit lensed troffers, the best application is to retrofit parabolic troffers, especially the very common 3 lamp 18 cell 2x4. The 18 cell parabolic louver fixtures should not be delamped because the repositioning of the remaining lamps ruins proper cut-off angles and creates significant glare. The RDI kits allows for delamping, which can provide extra wattage savings without causing these problems. In California, state, county, town or school-district retrofit projects require prevailing wage inside-wiremen to install new fixtures, and the hourly rate for inside-wiremen is often too high for installation of new fixtures, such as suspended indirects, to be cost effective. The RDI kits allow the significantly lower paid light fixture maintenance classification to install them.

Costs: Retrofit kits cost 33% to 50% of the price of a new fixture.

Donated Product: SDREO would like to formally thank Bob Murphy of A.L.P. (www.alplighting.com) for donating the retrofit kits. Bob can be reached at (714) 330-7244 and bmurphy@alplighting.com.

Discussion: A.L.P. has numerous other upgrade kits and is working on a suspended indirect kit. Some other companies across the country have, or are developing upgrade kits, which can be much better than just reflectors. If funding is available, installing suspended indirects, semi-indirects, or direct-indirects is usually a better big picture solution than kitting existing fixtures or even installing the best new direct troffers.