



Lighting Retrofit Claim Sheet

Shakopee Public Utilities

Equipment		Specifications	Rebate/Unit X Quantity = Rebate Amount		
Fluorescent Lamps with T8 Electronic Ballasts					
4 foot or less	1 & 2 lamp	Replace incandescent or T12 systems with T8 systems.	\$9.00		
	3 & 4 lamp		\$16.00		
5 foot to 8 foot	1 lamp		\$9.00		
	2 lamp		\$14.00		
Fluorescent Super T8 Lamps with Electronic Ballasts					
4 foot or less	1 & 2 lamp	Replace incandescent or T12 systems with Super T8 systems.	\$12.00		
	3 & 4 lamp		\$20.00		
Low-Wattage Fluorescent T8 Lamps					
4 foot; 28W or less	1 lamp	Install 28W or less.	\$1.00/lamp		
Fluorescent T5 Lamps with Electronic Ballasts					
4 foot or less	1 & 2 lamp	Replace incandescent or T12 systems with T5 systems.	\$12.00		
	3 & 4 lamp		\$18.00		
High-bay Fluorescent Lamps with Electronic Ballasts					
2-lamp T5HO, 3-lamp T5HO, 4-lamp T8		Replace HID* 250W lamp systems	\$50.00		
3-lamp T8VHO, 4- to 6-lamp T5HO, 6- to 8-lamp T8		Replace HID 310-400W lamp systems	\$75.00		
6-lamp T8VHO, 8-lamp T5HO, 12- to 16-lamp T8		Replace HID 750W lamp systems	\$100.00		
8-lamp T8HVO, 10-lamp T5HO, 18- to 20-lamp T8		Replace HID 1000 W lamp systems	\$125.00		
Hardwired or Modular Compact Fluorescent Fixtures					
18W or less		Replace incandescent systems with hardwired or modular CFL systems. Does not include screw-base CFLs.	\$8.00		
19W to 32W			\$18.00		
33W to 99W			\$24.00		
Industrial Multi-CFL Fixtures					
Replace T12 or metal halide system			\$25.00		
Metal Halide and High Pressure Sodium Fixtures					
151W to 250W		Replace incandescent, high pressure sodium or mercury vapor with metal halide. Replace incandescent or mercury vapor with high pressure sodium.	\$28.00		
251W+			\$50.00		
Ceramic Metal Halide Fixtures					
150W or less		Replace incandescent, halogen, or HID systems with ceramic metal halide systems.	\$50.00		
151W to 250W			\$45.00		
251W+			\$60.00		
25W Integrated Ceramic Metal Halide lamps		Replace 75W or greater incandescents or halogens with 25W integrated ceramic metal halide lamps.	\$20.00		
Pulse Start Metal Halide Fixtures					
175W to 319W		Replace incandescent, mercury vapor, high pressure sodium, or metal halide systems with pulse-start metal halide systems.	\$55.00		
320W to 749W			\$65.00		
750W+			\$75.00		
Reflectors					
Must result in permanent removal of lamps from the existing systems.			\$0.50/sq. ft.		
Automatic Controls					
Wall Mount Occupancy Sensor		Must be permanently installed	\$12.00		
Ceiling Mount Occupancy Sensor			\$36.00		
Photocell			\$15.00		
LED or Cold Cathode Exit Signs					
Replace incandescent exit signs			\$23.00		
Custom Lighting Projects		Contact SPU for more information at 952-233-1531			
Total Rebate					\$

* HID includes mercury vapor, high pressure sodium & metal halide



Lighting Retrofit Rebate Requirements

Shakopee Public Utilities

Prescriptive rebates are available for the commonly installed interior equipment listed below. If your project does not fit one of the descriptions below, it may still qualify for rebates. Please contact your Shakopee Public Utilities representative at 952-233-1531 for custom lighting project review prior to beginning the project.

- A. Compact Fluorescent Fixtures.** Rebates are based on one-for-one replacement of incandescent fixtures with new hard-wired (dedicated) or modular fixtures containing pin-based compact fluorescent lamps (CFLs). For fixtures that house more than one lamp, the rebate is based on the number of lamps in the fixture. (i.e., One fixture that houses (2) 18W CFLs would be rebated as (2) 18W CFL lamps.) Screw-base (integral) CFLs do not qualify.
- B. Fluorescent T8 or T5 Lamps with Electronic Ballast.** Rebates are based on one-for-one replacement of incandescent fixtures or fluorescent T12 lamps controlled by magnetic ballasts.
- C. Super T8 Lamps with Electronic Ballast.** Rebates are based on one-for-one replacement of incandescent fixtures or fluorescent T12 lamps controlled by magnetic ballasts. Super T8 systems must meet the following CEE specifications:
 - Lamps: produce at least 3,100 initial lumens; color-rendering index (CRI) ≥ 81 ; mean lumens per watt ≥ 90 for instant start ballasts or ≥ 88 for programmed rapid start ballasts; lamp life $\geq 24,000$ hours (at 3 hrs/start); and lumen maintenance $\geq 94\%$.
 - Ballasts: must have a ballast efficacy factor (BEF) at least as high as the factors shown in the table below.

Instant Start Ballast (BEF)			
Lamps	Low (BF \leq 0.85)	Normal (0.85<BF \leq 1.0)	High (BF \geq 1.01)
1	3.08	3.11	N/A
2	1.60	1.58	1.55
3	1.04	1.05	1.04
4	0.79	0.80	0.77

Programmed Rapid Start Ballast (BEF)			
Lamps	Low (BF \leq 0.85)	Normal (0.85<BF \leq 1.0)	High (BF \geq 1.01)
1	2.84	2.84	N/A
2	1.48	1.47	N/A
3	0.97	1.00	N/A
4	0.76	0.75	N/A

- D. Low-wattage T8 Lamps.** Rebates are based on the installation of 4-foot T8 lamps 28W or less.
- E. High-bay Fluorescent T8, T8VHO and T5HO Lamps with Electronic Ballasts.** Rebates are based on a one-on-one replacement of HID fixtures (including mercury vapor, high pressure sodium, metal halide, or pulse-start metal halide) ranging in size from 250W to 1000W. Rebates are available for T8, T8VHO systems or T5HO systems as shown on the lighting retrofit claim sheet. Other fixture configurations will be considered under the Custom Efficiency program.
- F. Metal Halide and High Pressure Sodium Fixtures.** Rebates are based on one-for-one replacement of incandescent or mercury vapor fixtures. Metal halide and high pressure sodium lamp wattage must be lower than existing lamp wattage.
- G. Ceramic Metal Halide Fixtures.** Rebates are based on one-for-one replacement of incandescent, halogen, mercury vapor, high pressure sodium, metal halide, or pulse start metal halide fixtures. Ceramic metal halide lamp wattage must be lower than existing lamp wattage.
- H. Pulse-Start Metal Halide Fixtures.** Rebates are based on one-for-one replacement of incandescent, mercury vapor, high pressure sodium, or metal halide fixtures. Pulse-start lamp wattage must be lower than existing lamp wattage.
- I. Reflectors.** Rebates are for permanently installed reflectors that have a minimum 4-year manufacturer's product warranty, and result in the permanent removal of fluorescent lamps from the existing fixture. (Example: Remove a fluorescent 4' T12 4-lamp system and replace it with a 4' T8 3-lamp system with a reflector.) Rebate is based on the square footage of the reflector.
- J. Occupancy Sensors and Photocells.** Must be permanently installed. Occupancy sensors may be wall or ceiling mounted, passive infrared, ultrasonic, or dual technology sensors.
- K. LED Exit Signs.** Rebates are based on one-for-one replacement of incandescent exit signs to LED exit signs. CFL exit signs do not qualify for a rebate.