



Lighting Claim Sheet – New Construction

Shakopee Public Utilities

Equipment		Rebate/Unit	X Quantity	= Rebate Amount
Fluorescent Super T8 lamps with Electronic Ballasts				
4 foot or less Ballast factor _____	1 & 2 lamp	\$2.00		
	3 & 4 lamp	\$2.50		
Fluorescent T5 lamps with Electronic Ballasts				
4 foot or less Ballast factor _____	3 & 4 lamp	\$3.00		
Low-Wattage Fluorescent T8 lamps				
4 foot; 28W or less	1 lamp	\$0.75		
High-Efficiency Electronic Ballasts*				
For use with standard or low-wattage T8 lamps	Ballast factor _____	\$0.75		
High-Bay Fluorescent Fixtures				
High-bay Fluorescent	4 & 6 lamp T5HO	\$20.00		
	6 & 8 lamp T8	\$20.00		
	8 lamp T5HO	\$40.00		
	6 lamp T8VHO	\$40.00		
	12 & 16 lamp T8	\$40.00		
	10 lamp T5HO	\$50.00		
	8 lamp T8VHO	\$50.00		
	18 & 20 lamp T8	\$50.00		
Hardwired or Modular Compact Fluorescent Fixtures (does not include screw-base CFL's)				
18W or less		\$3.50		
19W to 32W		\$6.00		
33W to 56W		\$9.00		
Ceramic Metal Halide Fixtures				
150W or less		\$22.00		
151W to 250W		\$11.50		
251W+		\$17.00		
25W Integrated Ceramic Metal Halide lamps		\$9.00		
Pulse Start Metal Halide Fixtures				
175W or less <input type="checkbox"/> Magnetic ballast <input type="checkbox"/> Electronic ballast		\$10.00		
176W to 319W <input type="checkbox"/> Magnetic ballast <input type="checkbox"/> Electronic ballast		\$15.00		
320W to 749W <input type="checkbox"/> Magnetic ballast <input type="checkbox"/> Electronic ballast		\$18.00		
750W+ <input type="checkbox"/> Magnetic ballast <input type="checkbox"/> Electronic ballast		\$23.00		
Lighting Controls (where not required by code)				
Occupancy Sensor-manual wall box or integrally mtd in fixture		\$8.00		
Occupancy Sensor: ceiling mount >300W controlled load		\$25.00		
Ext. Photocell w/ Astronomical Time Switch 300W-1500W		\$50.00		
Ext. Photocell w/ Astronomical Time Switch >1500W controlled		\$100.00		
Single Level Lighting control <300W controlled load		\$15.00		
Single Level Lighting control >300W controlled load		\$25.00		
Multi-level Lighting Control >300W		\$40.00		
Total Rebate			\$	
Custom Lighting Program is available for projects not detailed above.			Please contact SPU for pre-acceptance of all custom lighting programs.	



Lighting Rebate Requirements–New Construction

Shakopee Public Utilities

Shakopee Public Utilities Commission (SPUC) offers rebates to qualifying customers who purchase and install qualifying energy-efficient lighting products in new buildings. If your project does not fit one of the descriptions below, it may still qualify for rebates. The Custom Rebate requires approval prior to beginning the project.

Important Program Rules.

- This program is applicable to the commercial / industrial customers of SPUC.
- Installation must be complete before funds will be issued.
- Customers and vendors must submit itemized equipment invoices along with rebate applications and worksheets. Invoices must itemize labor charges, quantity and price of the equipment installed, and information regarding the manufacturer and model numbers for all lamps, ballasts and fixtures included in the rebate.
- The maximum rebate amount shall be limited to 50% of the project cost.
- Customer is responsible for checking with SPUC to determine whether funding is available and to verify program parameters.

Super T8 Fluorescent Lamps with Electronic Ballast. Rebates are based on the installation of Super T8 systems, which 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

Fluorescent T5 Lamps with Electronic Ballast. Rebates are based on the installation of fluorescent T5 controlled by electronic ballasts.

Low-wattage Fluorescent T8 Lamps. Rebate based on the installation of 4-ft lamps less than or equal to 28W. Rebate is based on the number of lamps.

High-bay Fluorescent T8, T8VHO and T5HO Lamps with Electronic Ballasts. High-bay fluorescent T8 6- or 8-lamp systems or T5HO 4-lamp systems must meet the following minimum performance criteria:

- Total fluorescent fixture wattage < 240W
- Initial lumens $\geq 20,000$
Initial lumens = # of lamps x lumens per lamp x ballast factor
- Fixture Efficiency > 80%
- Lumen maintenance > 90%
- Fixture must have reflectors

Compact Fluorescent Fixtures (CFL's/CFB's)

Rebates are available for new hard-wired (dedicated) or modular fixtures containing pin based CFL's. For fixtures that house more than one lamp, the rebate is based on the total fixture wattage. (i.e., one fixture that houses (2) 18W CFB's would be rebated as (1) 36W CFL fixture.) Screw-based (integral) CFL's and CFB's do not qualify.

Ceramic Metal Halide Fixtures

Rebates are based on the installation of ceramic metal halide fixture.

Pulse-Start Metal Halide (PSMH) Fixtures

Rebates are based on the installation of a pulse-start metal halide fixtures.

Automatic Controls

- **Occupancy sensors** - wall box, plug-load type or integrally mounted within a fixture. Passive infrared and/or ultrasonic detectors are eligible. Must be hardwired and must control interior lighting fixtures. Wall box lighting occupancy sensors defined as self-contained (no exterior, switch pack, or relay) units designed to replace a standard wall switch. Wall or ceiling mounted sensors must not control more than 1,000 watts. Plug-load occupancy sensors must control electricity-using equipment in offices or cubicles, or control shared copiers and/or printers. Fixed time delays shall be at least 30 seconds and no more than 20 minutes.
- **Electronic Timers** - must be capable of automatic shut-off of lights in unoccupied space. Time range shall be adjustable for 5 minutes to 12 hours. Visual warning when automatic shut-off is imminent is required when controlling interior lighting.
- **Outdoor Lighting** - Must be automatically controlled by both time clock and photocell or by astronomic time clock. Timers shall be capable of automatic adjustment for seven days and shall have back-up capabilities to prevent the loss of the device's program and time setting for at least 10 hours if the power is interrupted.