

# Lighting Rebates



## Rebate Application

Federated Rural Electric, ATTN: Jon, P.O. Box 69, Jackson, MN 56143  
847-3520, 728-8366 or 1-800-321-3520 • beckman@federatedrea.coop

### Business Member Information

Business Name \_\_\_\_\_  
Installation Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Contact Name \_\_\_\_\_  
Email \_\_\_\_\_  
Phone Number \_\_\_\_\_  
Account Number \_\_\_\_\_

### Rebate Recipient

To release the rebate incentive check to an alternate party other than the cooperative business member, the member must specify an alternative mailing address and authorize with a signature below.

#### Please Send Rebate to (check one):

- Business Member       Alternative Recipient

Recipient Name \_\_\_\_\_  
Mailing Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Contact Name \_\_\_\_\_

### Application Check List

- Rebate application with
- Itemized project invoices (labor &
- Equipment specifications

The undersigned does hereby certify that the undersigned is solely responsible for the accuracy of the information contained in this application. All rules of the program have been followed and the installation is complete. The undersigned acknowledges that nothing contained in the application imposes any liability on the cooperative for the work performed and information presented by the member, member's engineer, contractor, or vendor. The undersigned also authorized payment of incentive directly to the specified rebate recipient.

### Member Signature

### Date

\_\_\_\_\_

\_\_\_\_\_

Received \_\_\_\_\_



Reviewed \_\_\_\_\_

# Lighting Rebates

## Rules & Information

### Warranty Information

Rebate qualifications do not imply any representation or warranty of such equipment, design or installation by the cooperative. The cooperative shall not be responsible or liable for any personal injury or property damage caused by this equipment. The cooperative does not guarantee that a specific level of energy or cost savings will result from the implementation of energy conservation measures or the use of products funded under this program. In no event shall the cooperative be liable for any incidental or consequential damages.

### General Program Rules

1. Installation must be complete before application is submitted and funds are issued.
2. Members and vendors must submit itemized equipment invoices, rebate application, and manufacturer equipment specifications. To ensure that the equipment installed meets the cooperative's performance standards, these invoices must itemize labor charges, quantity and price of the equipment installed, as well as information regarding the manufacturer and model numbers for all equipment included in the rebate.
3. The cooperative reserves the right to conduct random inspections of installations.
4. Rebates must be applied for within 12 months of invoice date.
5. The member is responsible for checking with the cooperative to determine whether funding is available and to verify program parameters.
6. Project must comply with all program specific rules and qualifications.
7. The member is responsible for checking with the cooperative to determine funding availability and to verify program parameters.
8. Qualifying members must apply for rebates no later than November 17, 2017.
9. Illuminating Engineering Society (IES) light levels are recommended. A project falling below recommended levels may be denied rebate.

Start Ballast (BEF)			
Lamp	Low (BF ≤ 0.85)	Normal (0.85 < BF ≤ 1.0)	High (BF ≥ 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 ≤ 0.85)	Normal (0.85 < BF ≤ 1.0)
1	2.84	2.84
2	1.48	1.47
3	0.97	1.00
4	0.76	0.75

### Lighting Retrofit

- All prescriptive lighting retrofit rebates will be for equipment that is DLC or Energy Star listed. Equipment that does not meet this requirement can be rebated through the custom lighting option.
- Rebates are based on installed equipment of one-for-one replacement of incandescent fixtures, fluorescent T12 lamps controlled by magnetic ballasts, or other fixture type that produce similar kW savings.
- Super T8 systems must meet the following CEE criteria: 1) Lamps must produce at least 3,100 initial lumens. 2) color-rendering index of (CRI) ≥ 81. 3) Have mean lamp lumens of per watt ≥ 90 for instant start ballast or ≥ 88 for programmed rapid start ballast. 4) A lamp life of ≥ 24,000 hours (at 3 hrs/start). 5) Have lumen maintenance of
- Low wattage T8 lamps are based on the installation of 4' T8 lamps 28w or less.
- High-Bay fluorescent T8 and T5HO lamps with electronic ballast are based on one-for-one replacement of various wattage HID fixtures or other fixtures with similar kW savings.
- High-Bay fixtures of any lamp quantity or fixture must maintain corresponding lumen output and produce kW savings. Requirements include:
  - lumen maintenance > 90%
  - fixture efficiency > 80%
  - fixtures must have reflectors

# Lighting Rebates

## Rules & Information

### (continued)

- 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 CFLs would be rebated as (1) 36W CFL fixture)
- Reflector rebate is for permanently installing reflectors that result in the permanent reduction of lamps from the existing fixture.
- Automatic controls must be permanently installed.
- LED exit signs rebates are for incandescent to LED only. Incandescent to CFL or CFL to LED do not qualify.

### New Construction

- All new construction fluorescent fixtures require electronic ballasts.
- Lamps shall have: 1) at least 3,100 initial lumens 2) color-rendering index (CRI)  $\geq 81$  3) mean lamp lumens per watt  $\geq 90$  for instant start ballast or  $\geq 88$  for programmed rapid start ballast 4) lamp life  $\geq 24,000$  hours (at 3 hrs/start) 5) and lumen maintenance  $\geq 94\%$ .
- Low-wattage T8 lamps are based on the installation of 4' T8 lamps of 28W or less.
- HB fluorescent T8 6 or 8 lamp and T5HO 4 lamp fixture minimum requirements include:
  - total fixture wattage  $< 240w$
  - lumen maintenance  $> 90\%$
  - initial lumens  $\geq 20,000$
  - must have reflectors
  - fixture efficiency  $> 80\%$
- 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 CFLs would be rebated as (1) 36W CFL fixture. Screw-based (integral) CFLs do not
- Energy Star requirements must match the application of LED installations.
- ENERGY STAR does not have a qualified products list for LED canopy, soffit lighting, or LED refrigerated

# Lighting Rebates

## Lighting Retrofit

LED Lamps			Quantity		
Screw & pin					
LED Lamp	5w or less	Replaces incandescent, halogen, or CFLs with minimum 2x wattage reduction	\$5		\$0.00
LED Lamp	6w-10w		\$10		\$0.00
LED Lamp	11w-20w		\$13		\$0.00
LED Lamp	21w-30w		\$18		\$0.00

LED Troffers					
Retrofit Kits					
2X4	19w-40w	Replaces T12 or T8 systems	\$20		\$0.00
2X2	15w-35w		\$12		\$0.00
Entire Fixture Replacement					
2X4	19w-40w	Replaces T12 or T8 systems	\$25		\$0.00
2X2	15w-35w		\$18		\$0.00
LED Tubes					
4' lamp	18w or less	Replaces T12 or T8 lamps	\$6		\$0.00
5'-6' case lamp		Refrigerator/Freezer	\$50		\$0.00

LED Fixtures					
Downlights, Recessed Cans, Pendants, & Surface Mounted					
LED Fixture	25w or less	Replaces incandescent, halogen, CFL or fluorescent fixtures with minimum 2x wattages reduction	\$20		\$0.00
LED Fixture	26w-50w		\$25		\$0.00
LED Fixture	51w-75w		\$30		\$0.00
Wallpacks, Soffits, Canopy, Hi-Bay/Lo-Bay & Pole Mounted					
LED Fixture	40w or less	Replaces HID with minimum 2x wattage reduction	\$35		\$0.00
LED Fixture	41w-80w		\$60		\$0.00
LED Fixture	81w-120w		\$90		\$0.00
LED Fixture	121w-200w		\$120		\$0.00
LED Exit Signs					
Exit Sign	8w or less	Replaces incandescent only	\$10		\$0.00

Compact Fluorescents					
Hardwired or Modular CFL Fixtures	> 56w		\$25		\$0.00
	33-55w		\$21		\$0.00
	19-32w		\$16		\$0.00
Not Screw or Pin	≤ 18w		\$8		\$0.00
	> 56w		\$10		\$0.00
Screw or Pin Base CFLs	33-55w		\$6		\$0.00
	19-32w		\$4		\$0.00
	≤ 18w		\$2		\$0.00

# Lighting Rebates

## Lighting Retrofit (continued)

Linear		Quantity			
T5 lamps with electronic ballasts	≤ 4'	3 & 4 Lamps	\$17		\$0.00
		1 & 2 Lamps	\$11		\$0.00
T8 lamps with electronic ballasts	≤ 4'	3 & 4 Lamps	\$16		\$0.00
		1 & 2 Lamps	\$10		\$0.00
	5' - 8'	2 Lamp	\$16		\$0.00
		1 Lamp	\$10		\$0.00
Super T8 lamps with electronic ballasts	≤ 4'	3 & 4 Lamps	\$16		\$0.00
		1 & 2 Lamps	\$10		\$0.00
	5' - 8'	2 Lamp	\$16		\$0.00
		1 Lamp	\$10		\$0.00
Low-watt T8 lamps	≤ 4'	≤ 28w lamp	\$0.55		\$0.00
2L T5HO, 3L T5HO, 4L T8		Replaces HID 150-250w	\$36		\$0.00
3L T8VHO, 4-6L T5HO, 6-8L T8		Replaces HID 310-400w	\$65		\$0.00
6L T8VHO, 8L T8HO, 12-16L T8		Replaces HID 750w	\$80		\$0.00
8L T8VHO, 10L T5HO, 18-20L T8		Replaces HID 1,000w	\$100		\$0.00
Reflectors		\$1 / square foot	\$1		\$0.00

HID Fixtures					
High Pressure Sodium		≤ 150w	\$20		\$0.00
		151-250w	\$30		\$0.00
		≥ 251w	\$45		\$0.00
Pulse-Start Metal Halide		≤ 175w	\$28		\$0.00
		176-319w	\$45		\$0.00
		320-749w	\$60		\$0.00
		≥ 750w	\$70		\$0.00
Ceramic Metal Halide		≤ 50w	\$25		\$0.00
		51-150w	\$35		\$0.00
		151-250w	\$50		\$0.00
		≥ 251w	\$75		\$0.00

Automatic Controls	Hr/year*	% reduction	total kW*		
Photocell				\$14	\$0.00
Ceiling Mount Occ Sensor				\$25	\$0.00
Wall Mount Occ Sensor				\$14	\$0.00
Fixture Mount Occ Sensor				\$5	\$0.00

\*annual operating hours before controls

\*\*total connected load (kW) to control

Project Cost	
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Total Rebate	\$0.00
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**Must Complete "Lighting Retrofit Details" page.**

# Lighting Rebates

## Lighting Retrofit Details

Old Lighting	Quantity	Wattage	Hrs/Year	New Lighting	Quantity	Wattage	Hrs/Year	A/C?

	Before		After	
	kW	kWh	kW	kWh
Total Usage	0.0	0	0.0	0
Annual Savings	0.0	0		

# Lighting Rebates

## New Construction

LED Lamps				
screw & pin				
LED Lamp	5w or less	\$4		\$0
LED Lamp	6w-10w	\$8		\$0
LED Lamp	11w-20w	\$10		\$0
LED Lamp	21w-30w	\$12		\$0

LED Troffers				
Fixtures				
2X4	19w-40w	\$25		\$0
LED Tubes				
4' lamp	18w or less	\$5		\$0
5'-6' case lamp	Refrigerator/Freezer	\$40		\$0

LED Fixtures				
Downlights, Recessed Cans, Pendants, & Surface Mounted				
LED Fixture	25w or less	\$17		\$0
LED Fixture	26w-50w	\$23		\$0
LED Fixture	51w-75w	\$28		\$0
Wallpacks, Soffits, Canopy, Hi-Bay/Lo-Bay & Pole Mounted				
LED Fixture	40w or less	\$30		\$0
LED Fixture	41w-80w	\$50		\$0
LED Fixture	81w-120w	\$70		\$0
LED Fixture	121w-200w	\$105		\$0
LED Fixture	201w-250w	\$120		\$0

Fluorescent				
T5 lamps with electronic ballasts	≤ 4'	3 & 4 Lamps	\$2.75	\$0.00
		1 & 2 Lamps	\$2.20	\$0.00
Super T8 lamps with electronic ballasts	≤ 4'	3 & 4 Lamps	\$2.50	\$0.00
		1 & 2 Lamps	\$1.90	\$0.00
	5' - 8'	2 Lamp	\$2.75	\$0.00
		1 Lamp	\$2	\$0.00
low-watt T8 lamps	≤ 4'	≤ 28w lamp	\$0.55	\$0.00

Compact Fluorescents				
Hardwired or Modular CFLs	≤ 18w		\$3.30	\$0.00
	19-32w		\$5.50	\$0.00
	33-56w		\$8.80	\$0.00
T8HO with electronic ballast	≤ 4'	6 & 8 Lamps	\$15	\$0.00
T5HO with electronic ballast		6 & 8 Lamps	\$20	\$0.00
		4 Lamps	\$15	\$0.00

# Lighting Rebates

## New Construction (continued)

HIDs				
High Pressure Sodium	≤ 150w	\$6.60		\$0.00
Pulse-Start Metal Halide	≤ 175w	\$6.50		\$0.00
	176-319w	\$8.80		\$0.00
	320-749w	\$13.20		\$0.00
	≥ 750w	\$19.80		\$0.00
Ceramic Metal Halide	20-25w w/ electronic ballast	\$8.00		\$0.00
	≤ 150w	\$11.00		\$0.00
	151-250w	\$16.50		\$0.00
	≥ 251w	\$22.00		\$0.00

Automatic Controls	Hr/year*	% reduction	total kW**			
Photocell				\$7		\$0
Ceiling Mount Occ Sensor				\$15		\$0
Wall Mount Occ Sensor				\$7		\$0
Fixture Mount Occ Sensor				\$4		\$0

\*annual operating hours before controls

\*\*total connected load (kW) to control

Project Cost	
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Rebate	\$0.00
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