



**UPGRADE REFERENCE AND WORKSHEET**

**NOTE: ALL DATA FOR THE PROJECT MUST BE TRANSFERRED TO THE FIRST PAGE OF THE REBATE APPLICATION PRIOR TO SUBMISSION**

**NOTE: WATTAGES LISTED FOR CONSUMPTION ARE REPRESENTATIVE ONLY. Customer to provide actual wattages on form.**

| Code      | Lighting Contractor Upgrade Description                     | Fixtures and Retrofits  | Old Individual Fixture Wattage | New Individual Fixture Wattage | Type of Lamp Removed: I - MH - F | No. of New or Retrofit Fixtures Installed | X | Rebate per Fixture | EQ | Total Fixture Rebate |
|-----------|---|---|--------------------------------|--------------------------------|----------------------------------|---|---|--------------------|----|----------------------|
| 2T121     | 2'T12 1-lamp to 2' T8 1-lamp with EB                        | T-8 Fluorescent System, Electronic ballast - 1 or 2 lamp conversion | 45                             | 20                             | F                                |   |   | \$10.00            |    |                      |
| 2T122     | 2'T12 2-lamp to 2' T8 2-lamp with EB                        | T-8 Fluorescent System, Electronic ballast - 1or 2 lamp conversion  | 65                             | 34                             | F                                |   |   | \$10.00            |    |                      |
| 2T123     | 2'T12 3-lamp to 2' T8 3-lamp with EB                        | T-8 Fluorescent System, Electronic ballast - 3 or 4 lamp conversion | 90                             | 52                             | F                                |   |   | \$15.00            |    |                      |
| 2T124     | 2'T12 4-lamp to 2' T8 4-lamp with EB                        | T-8 Fluorescent System, Electronic ballast - 3 or 4 lamp conversion | 130                            | 63                             | F                                |   |   | \$15.00            |    |                      |
| 4T121     | 4'T12 1-lamp to 4' T8 1-lamp with EB                        | T-8 Fluorescent System, Electronic ballast - 1or 2 lamp conversion  | 50                             | 25-32                          | F                                |   |   | \$10.00            |    |                      |
| 4T122     | 4'T12 2-lamp to 4' T8 2-lamp with EB                        | T-8 Fluorescent System, Electronic ballast - 1or 2 lamp conversion  | 92                             | 47-78                          | F                                |   |   | \$10.00            |    |                      |
| 4T12U2R   | 4'T12U 2-lamp to 2' T8 2-lamp with EB + refl                | T-8 Fluorescent System, Electronic ballast - 1or 2 lamp conversion  | 92                             | 34                             | F                                |   |   | \$25.00            |    |                      |
| 4T123     | 4'T12 3-lamp to 4' T8 3-lamp with EB                        | T-8 Fluorescent System, Electronic ballast - 3 or 4 lamp conversion | 142                            | 70-119                         | F                                |   |   | \$15.00            |    |                      |
| 4T124     | 4'T12 4-lamp to 4' T8 4-lamp with EB                        | T-8 Fluorescent System, Electronic ballast - 3 or 4 lamp conversion | 172                            | 84-148                         | F                                |   |   | \$15.00            |    |                      |
| 4T122R    | 4'T12 2-lamp to 4' T8 1-lamp with EB + refl                 | T-8 Fluorescent System, Electronic ballast - 1or 2 lamp conversion  | 92                             | 25-32                          | F                                |   |   | \$25.00            |    |                      |
| 4T12HO2R  | 4'T12HO 2-lamp to 4' T8 2-lamp with EB + refl               | T-8 Fluorescent System, Electronic ballast - 1or 2 lamp conversion  | 131                            | 47-78                          | F                                |   |   | \$35.00            |    |                      |
| 4T123R    | 4'T12 3-lamp to 4' T8 2-lamp with EB + refl                 | T-8 Fluorescent System, Electronic ballast - 1or 2 lamp conversion  | 142                            | 47-78                          | F                                |   |   | \$25.00            |    |                      |
| 4T124R    | 4'T12 4-lamp to 4' T8 2-lamp with EB + refl                 | T-8 Fluorescent System, Electronic ballast - 1or 2 lamp conversion  | 172                            | 47-78                          | F                                |   |   | \$35.00            |    |                      |
| 8T121     | 8'T12 1-lamp to 4' T8 2-lamp with EB                        | T-8 Fluorescent System, Electronic ballast - 1or 2 lamp conversion  | 92                             | 47-78                          | F                                |   |   | \$10.00            |    |                      |
| 8T121R    | 8'T12 1-lamp to 4' T8 2-lamp with EB + refl                 | T-8 Fluorescent System, Electronic ballast - 1or 2 lamp conversion  | 92                             | 47-78                          | F                                |   |   | \$10.00            |    |                      |
| 8T122     | 8'T12 2-lamp to 4' T8 2-lamp with EB                        | T-8 Fluorescent System, Electronic ballast - 1or 2 lamp conversion  | 131                            | 47-78                          | F                                |   |   | \$10.00            |    |                      |
| 8T122R    | 8'T12 2-lamp to 4' T8 2-lamp with EB + refl                 | T-8 Fluorescent System, Electronic ballast - 1or 2 lamp conversion  | 131                            | 47-78                          | F                                |   |   | \$30.00            |    |                      |
| 8T1223R   | 8'T12 2-lamp to 4' T8 3-lamp with EB + refl                 | T-8 Fluorescent System, Electronic ballast - 3 or 4 lamp conversion | 131                            | 70-119                         | F                                |   |   | \$30.00            |    |                      |
| 8T1224    | 8'T12 2-lamp to 4' T8 4-lamp with EB or 8'T8 2-lamp with EB | T-8 Fluorescent System, Electronic ballast - 3 or 4 lamp conversion | 131                            | 84-148                         | F                                |   |   | \$15.00            |    |                      |
| 8T1224R   | 8'T12 2-lamp to 4' T8 4-lamp with EB + refl                 | T-8 Fluorescent System, Electronic ballast - 3 or 4 lamp conversion | 131                            | 84-148                         | F                                |   |   | \$15.00            |    |                      |
| 8T12HO2   | 8'T12HO 2-lamp to 4' T8 4-lamp with EB                      | T-8 Fluorescent System, Electronic ballast - 3 or 4 lamp conversion | 240                            | 84-148                         | F                                |   |   | \$20.00            |    |                      |
| 8T12HO2R  | 8'T12HO 2-lamp to 4' T8 4-lamp with EB + refl               | T-8 Fluorescent System, Electronic ballast - 3 or 4 lamp conversion | 240                            | 84-148                         | F                                |   |   | \$50.00            |    |                      |
| 8T12VHO2R | 8'T12VHO 2-lamp to 4' T8 6-lamp with EB + refl              | T-8 Fluorescent System, Electronic ballast - 6 lamp conversion      | 310                            | 130-190                        | F                                |   |   | \$50.00            |    |                      |
| 8T12HO2R  | 8'T12HO 2-lamp to 8' T8 2-lamp with EB + refl               | T-8 Fluorescent System, Electronic ballast - 1or 2 lamp conversion  | 240                            | 110                            | F                                |   |   | \$50.00            |    |                      |

**Note 1** The new input wattage calculations are based on T8 lamps powered by a Programmed Rapid Start or Instant Start High-Performance Electronic Ballast with a Low, Normal or High Ballast Efficiency Factor.

**Note 2** Disposal of ballasts: The customer is responsible for disposal of all discarded ballasts according to local, state and federal guidelines.

**Note 3** Disposal of lamps: The customer is responsible for disposal of all discarded lamps according to local, state and federal guidelines.

**UPGRADE REFERENCE AND WORKSHEET**

**NOTE: ALL DATA FOR THE PROJECT MUST BE TRANSFERRED TO THE FIRST PAGE OF THE REBATE APPLICATION PRIOR TO SUBMISSION**

| Code        | Lighting Contractor Upgrade Description   | Fixtures and Retrofits   | Old Individual Fixture Wattage | New Individual Fixture Wattage | Type of Lamp Removed: I - MH - F | No. of New or Retrofit Fixtures Installed | X | Rebate per Fixture | EQ | Total Fixture Rebate |
|-------------|---|--|--------------------------------|--------------------------------|----------------------------------|---|---|--------------------|----|----------------------|
| 4T5HO2R     | 250 watt MH to 54T5HO 2-lamp fixture  | T-5 Fluorescent System, Electronic ballast - 1or 2 lamp conversion                     | 295                            | 117                            | MH                               |   |   | \$50.00            |    |                      |
| 4T5HO32R    | 250 watt MH to 54T5HO 3-lamp fixture  | T-5 Fluorescent System, Electronic ballast - 3 or 4 lamp conversion                    | 295                            | 176                            | MH                               |   |   | \$50.00            |    |                      |
| 8T12250MHR  | 250 watt MH to T8 Fluorescent 3-4 lamp fixture with EB & reflector  | T-8 Fluorescent System, Electronic ballast - 3 or 4 lamp conversion                    | 295                            | varies                         | MH                               |   |   | \$50.00            |    |                      |
| 4T5HO42R    | 400 watt MH to 54T5HO 4-lamp fixture  | T-5 Fluorescent System, Electronic ballast - 3 or 4 lamp conversion                    | 458                            | 234                            | MH                               |   |   | \$50.00            |    |                      |
| 8T12400MHR  | 400 watt MH to T8 Fluorescent 3-4 lamp fixture with EB & reflector  | T-8 Fluorescent System, Electronic ballast - 3 or 4 lamp conversion                    | 458                            | varies                         | MH                               |   |   | \$50.00            |    |                      |
| NEWT8FIX    | Install new T8 fluorescent fixture, 1-4 lamps   | <b>New</b> T-8 Fluorescent System, Electronic ballast - 1,2,3 or 4 lamp                | varies                         | varies                         | F                                |   |   | \$30.00            |    |                      |
| NEWT8FIXHPL | All T12 to T8 upgrades and where the new or retrofit fixtures contain only High Performance or Reduced Wattage <b>Lamps</b> and <b>Ballasts</b> . Specifications for these systems appear on the CEE Web site | <b>HPT8 or Reduced Wattage:</b><br>Additional incentive per fixture                    | varies                         | varies                         | F                                |   |   | \$5.00             |    |                      |
| NEWT5FIX    | Install new T5 fluorescent fixture, 1-4 lamps   | <b>New</b> T-5 Fluorescent System, Electronic ballast - 1,2,3 or 4 lamp                | varies                         | varies                         | F                                |   |   | \$30.00            |    |                      |
| NEWT5HOFIX  | Install new HO T5 fluorescent fixture, 2-4 lamps ( <b>Not</b> standard linear T5 fixtures)  | <b>New</b> HO T-5 Fluorescent System, Electronic ballast - 2,3 or 4 lamp               | varies                         | varies                         | MH                               |   |   | \$30.00            |    |                      |
| NEWT5BIFIX  | Install new Biax T5 fluorescent fixture, 2-4 lamps ( <b>Not</b> standard linear T5 fixtures)  | <b>New</b> Biax T-5 Fluorescent System, Electronic ballast - 2,3 or 4 lamp             | varies                         | varies                         | varies                           |   |   | \$50.00            |    |                      |
| INCCFLR     | <b>Retrofit</b> Incandscnt system to Circline or Compact fluorescent system   | Compact Fluorescent Hard-Wired System  | varies                         | varies                         | I                                |   |   | \$25.00            |    |                      |
| OCCSEN      | Occupancy sensors, wall or ceiling mounted controlling hard-wired fixtures - a minimum of 100 watts per sensor.   | Fixtures controlled by occupancy sensors - <b>Per Fixture Controlled</b>               | varies                         | varies                         | N/A                              |   |   | \$20.00            |    |                      |
| OCCSENFIX   | Occupancy sensors installed in individual <b>high bay</b> fixtures and controlling a minimum of 100 fixture watts   | Individual high bay fixtures controlled by occupancy sensors                           | varies                         | varies                         | N/A                              |   |   | \$30.00            |    |                      |
| DIMBAL      | New dimmable ballast (Daylight dimming with photocell control)  | Electronic automatic controllable ballast  | N/A                            | N/A                            | N/A                              |   |   | \$30.00            |    |                      |
| DIMBALCF    | New compact fluorescent fixture with dimmable ballast (Daylight dimming with photocell control)   | Compact Fluorescent System, Hard-wired or Circline with dimmable ballast - Per Fixture | N/A                            | N/A                            | N/A                              |   |   | \$40.00            |    |                      |
| MHPS        | Replace metal halide, mercury vapor or high pressure sodium fixtures with pulse start metal halide fixtures<br>New or Retrofit - minimum 50 watts lamp reduction  | MH, MV or HPS to PS MH   | varies                         | varies                         | varies                           |   |   | \$30.00            |    |                      |
| EXITLTS     | Retrofit or replace existing incandescent or compact fluorescent exit signs with LED signs  | Incandescent or CF exit signs to LED exit signs  | 25                             | 2                              | I or CFL                         |   |   | \$10.00            |    |                      |

**Note 1** Listed old and new fixture wattages are suggested or default values. Actual values should be entered in the (watts/fixture) columns on front page.

**Note 2** When using occupancy sensors, Programmed Rapid Start ballasts are recommended to ensure rated lamp life.

**Note 3** Refer to CEE website for listing of HPT8 and Reduced Wattage qualified specs and products.

**Note 4** Conversions from T8 to HPT8 or Reduced Wattage T8 systems must include lamp and ballast replacement.

**Note 5** Lamp only replacements do not qualify.

## REBATE REQUIREMENTS

**APPLICATION OFFER:** This rebate program covers products purchased and installed on or after January 1, 2010. Details of this program and rebate levels are subject to change without prior notice. Contact your participating utility representative for the latest program details. Applications must be submitted by December 31, 2010. Availability of funding is not guaranteed. The Utilities reserve the right to cap incentive amounts.

**ELIGIBILITY:** Rebates are available to commercial and industrial electric service customers of CL&P/UI for existing facilities. New construction is NOT eligible. For major renovations and inspections, contact an authorized CL&P/UI representative. Residential customers may apply for a rebate for common areas of multi-family housing.

**PAYMENT:** Rebates will be paid by check or credit to the electric account. We reserve the right to apply rebates to unpaid or overdue accounts. Please allow 60 days for the check or account credit. Payments will not be processed if the form is incomplete.

**REBATE AMOUNT:** In no case will CL&P/UI pay more than 100% of the purchase price shown on the invoice.

**PRE-APPROVAL and VERIFICATION:** Rebates exceeding \$1,000 must be pre- and post-inspected by an authorized CL&P/UI representative. Additionally, CL&P/UI reserves the right to inspect any installation prior to issuing rebates.

**REBATE LEVELS:** Rebate levels will be confirmed upon receipt of detailed invoices stating quantities and part numbers, along with post-inspection results where applicable.

**TAX LIABILITY:** CL&P/UI will not be responsible for any tax liability imposed on the customer as a result of the rebate payments. All customers must supply their federal tax identification number or social security number in order to receive a rebate. We will issue a 1099 to all unincorporated customers receiving rebates in excess of \$600.00.

**ENDORSEMENT:** CL&P/UI does not endorse any particular manufacturer, product, or system design in promoting the lighting rebate program. The website below provides access to the industry standard spec for the definition of "High Performance" T-8 lighting systems and Reduced Wattage T-8 lighting systems as well as frequently updated listing of eligible lamp/ballast combinations by manufacturer: <http://www.cee1.org>

**ISO-NE CAPACITY PAYMENTS:** By signing this document and as a condition to receiving a rebate pursuant to this program, customer hereby assigns to its participating electric utility, either CL&P or UI (as the case may be), any and all payments, benefits and/or credits in connection with the Forward Capacity Market or any currently existing or successor or replacement markets (including but not limited to any and all "LICAP," "ICAP," transitional credits or other capacity related payments, benefits and/or credits for which customer is eligible) and that are associated with or applicable to customer's participation in the program. Customer agrees to execute any and all documents and/or instruments as requested by UI or CL&P (as the case may be) to evidence such assignment. Forward Capacity Market means the market for procuring capacity pursuant to ISO-NE Tariff, FERC Electric Tariff No. 3, Section III, Market Rule 1, Section 13, any modifications to the Forward Capacity Market, or any successor or replacement market/capacity procurement process.

**CLASS III CONSERVATION CREDITS:** In accordance with the Department of Public Utility Control's ("DPUCs") June 28, 2006 decision in Docket No. 05-07-19, DPUC Proceeding to Develop a New Distributed Resources Portfolio Standard (Class III), customer is not eligible to receive or retain any Class III conservation credits for this project. Such credits shall be retained by either CL&P or UI (as the case may be) for the benefit of its customers through the CEEF. In the event that the DPUC amends or modifies the allocation of Class III conservation credits as reflected in its June 28, 2006 decision, then the allocation of such credits utilized by UI or CL&P (as the case may be) shall be the allocation in effect (per the applicable DPUC decision) on the date that customer signed this application.

## PRODUCT REQUIREMENTS

**U.L. LISTING:** Items eligible for a rebate must be U.L. listed. Reflectors must be U.L. classified.

**WATTAGE REDUCTION:** There must be at least a 10% system wattage reduction between the old and new system wattage for product to qualify.

**INDOOR APPLICATIONS ONLY:** All rebate products must be installed in indoor applications only. The exception will be covered parking garages (inside structure fixtures only).

**FIXTURES:** Conversions to T-8 systems can either be total fixture replacements or simply a lamp and ballast replacement. Conversions from T-8 to High Performance T-8 or Low Wattage T-8 systems must include lamp and ballast replacement to be rebatable. Lamp only replacements do NOT qualify. Contact your CL&P/UI customer support office for details. Conversions to T-5 systems require a total fixture replacement. The customer has the final responsibility for assuring that the fixture conversion or installation is suitable for his lighting requirements.

**ELECTRONIC BALLASTS:** Compatible electronic ballasts are required as part of retrofitting fluorescent fixtures and must be indicated on the invoice to receive a fixture rebate (T-12 electronic ballasts are not eligible for rebate). Only dimmable electronic (automatic controlled) ballast have a separate rebate. Visit CEE website referenced above to identify currently qualified products.

**REFLECTORS:** It is recommended that a sample area of reflectors be installed to ensure satisfaction with light output and distribution. Lamps must be re-centered after original lamps are removed; the reflector must cover the full face of the fixture. The reflector must have the appropriate U.L. Classification Marking. These devices have been evaluated by U.L. to determine that when used in accordance with the manufacturer's instructions, they do not adversely affect the operation of the complete fixture. Installation of the retrofit devices must be approved by the local Building Official to ensure compliance with the State Building Code. All reflector projects must be inspected. White or specular metal reflectors must have a minimum reflectivity rating of 90%. White reflectors will only receive an incentive at fixture mounting heights of 12 feet or less.

**OCCUPANCY SENSORS:** All occupancy sensors must be hard-wired. Each sensor must control a minimum of 100 watts to qualify.

*Please return completed application to appropriate location:*

**CL&P Customers:**

Connecticut Light & Power  
Conservation & Load Management  
P.O. Box 270  
Hartford, CT 06141-0270

or

**UI Customers:**

The United Illuminating Company  
Conservation & Load Management  
157 Church Street, MS 1-6B  
New Haven, CT 06510



Connecticut  
Light & Power

The Northeast Utilities System



The United Illuminating Company

Connecticut's Energy Efficiency Programs are funded by a Charge on Customer energy bills.  
The Programs are designed to help customers manage their energy usage and cost.

Paid for by CL&P and UI customers.

C0034 Rev. 11-09