

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' T-8 1-lamp with EB	T-8 Fluorescent System, Electronic ballast - 1or 2 lamp conversion	45	20	F			\$10.00		
2T122	2'T12 2-lamp to 2' T-8 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' T-8 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' T-8 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' T-8 1-lamp with EB	T-8 Fluorescent HP System, Electronic ballast - 1or 2 lamp conversion	50	25-32	F			\$15.00		
4T122	4'T12 2-lamp to 4' T-8 2-lamp with EB	T-8 Fluorescent HP System, Electronic ballast - 1or 2 lamp conversion	92	44-78	F			\$15.00		
4T12U2R	4'T12U 2-lamp to 2' T-8 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' T-8 3-lamp with EB	T-8 Fluorescent HP System, Electronic ballast - 3 or 4 lamp conversion	142	70-119	F			\$20.00		
4T124	4'T12 4-lamp to 4' T-8 4-lamp with EB	T-8 Fluorescent HP System, Electronic ballast - 3 or 4 lamp conversion	172	84-148	F			\$20.00		
4T122R	4'T12 2-lamp to 4' T-8 1-lamp with EB + refl	T-8 Fluorescent HP System, Electronic ballast - 1or 2 lamp conversion	92	25-32	F			\$30.00		
4T12HO2R	4'T12HO 2-lamp to 4' T-8 2-lamp with EB + refl	T-8 Fluorescent HP System, Electronic ballast - 1or 2 lamp conversion	131	44-78	F			\$40.00		
4T123R	4'T12 3-lamp to 4' T-8 2-lamp with EB + refl	T-8 Fluorescent HP System, Electronic ballast - 1or 2 lamp conversion	142	44-78	F			\$30.00		
4T124R	4'T12 4-lamp to 4' T-8 2-lamp with EB + refl	T-8 Fluorescent HP System, Electronic ballast - 1or 2 lamp conversion	172	44-78	F			\$40.00		
8T121	8'T12 1-lamp to 4' T-8 2-lamp with EB	T-8 Fluorescent HP System, Electronic ballast - 1or 2 lamp conversion	92	44-78	F			\$15.00		
8T121R	8'T12 1-lamp to 4' T-8 2-lamp with EB + refl	T-8 Fluorescent HP System, Electronic ballast - 1or 2 lamp conversion	92	44-78	F			\$15.00		
8T122	8'T12 2-lamp to 4' T-8 2-lamp with EB	T-8 Fluorescent HP System, Electronic ballast - 1or 2 lamp conversion	131	44-78	F			\$15.00		
8T122R	8'T12 2-lamp to 4' T-8 2-lamp with EB + refl	T-8 Fluorescent HP System, Electronic ballast - 1or 2 lamp conversion	131	44-78	F			\$35.00		
8T1223R	8'T12 2-lamp to 4' T-8 3-lamp with EB + refl	T-8 Fluorescent HP System, Electronic ballast - 3 or 4 lamp conversion	131	70-119	F			\$35.00		
8T1224	8'T12 2-lamp to 4' T-8 4-lamp with EB	T-8 Fluorescent HP System, Electronic ballast - 3 or 4 lamp conversion	131	84-148	F			\$20.00		
8T1224R	8'T12 2-lamp to 4' T-8 4-lamp with EB + refl	T-8 Fluorescent HP System, Electronic ballast - 3 or 4 lamp conversion	131	84-148	F			\$20.00		
8T12HO2	8'T12HO 2-lamp to 4' T-8 4-lamp with EB	T-8 Fluorescent HP System, Electronic ballast - 3 or 4 lamp conversion	240	84-148	F			\$25.00		
8T12HO2R	8'T12HO 2-lamp to 4' T-8 4-lamp with EB + refl	T-8 Fluorescent HP System, Electronic ballast - 3 or 4 lamp conversion	240	84-148	F			\$55.00		
8T12VHO2R	8'T12VHO 2-lamp to 4' T-8 6-lamp with EB + refl	T-8 Fluorescent HP System, Electronic ballast - 3 or 4 lamp conversion	310	128-226	F			\$55.00		
8T12250MHR	250 Watt MH to 4' 4-lamp T-8 with EB + refl	T-8 Fluorescent HP System, Electronic ballast - 3 or 4 lamp conversion	295	84-148	MH			\$40.00		
8T12400MHR	400 Watt MH to 4' 6-lamp T-8 with EB + refl	T-8 Fluorescent HP System, Electronic ballast - 3 or 4 lamp conversion	458	128-226	MH			\$55.00		
8T12HO2R	8'T12HO 2-lamp to 8' T-8 2-lamp with EB + refl	T-8 Fluorescent System, Electronic ballast - 1or 2 lamp conversion	240	110	F			\$50.00		

NOTE 1 The input wattage fixture calculations are based on a High Lumen 32WT-8 Lamp powered by a Programmed Rapid Start or Instant Start High Performance Electronic Ballast with a Low, Normal High Ballast Efficiency Factor. Yellow highlighted entries have High Performance offerings.

NOTE 2 Disposal of ballasts/lamps: The customer is responsible for disposal of all discarded ballasts/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	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
4T-5HO2R	250 watt MH to 54T-5HO 2-lamp fixture	T-5 Fluorescent System, Electronic ballast - 1 or 2 lamp conversion	117	MH			\$50.00		
4T-5HO32R	250 watt MH to 54T-5HO 3-lamp fixture	T-5 Fluorescent System, Electronic ballast - 3 or 4 lamp conversion	176	MH			\$50.00		
4T-5HO42R	400 watt MH to 54T-5HO 4-lamp fixture	T-5 Fluorescent System, Electronic ballast - 3 or 4 lamp conversion	234	MH			\$50.00		
NEWT-8FIX	Install new T-8 fluorescent fixture, 1-4 lamps	New T-8 Fluorescent HP System, Electronic ballast - 1,2,3 or 4 lamp	Varies	F			\$35.00		
NEWT-5FIX	Install new T-5 fluorescent fixture, 1-4 lamps	New T-5 Fluorescent System, Electronic ballast - 1,2,3 or 4 lamp	Varies	F			\$30.00		
NEWT-5HOFIX	Install new HO T-5 fluorescent fixture, 2-4 lamps (Not standard linear T-5 fixtures)	New HO T-5 Fluorescent System, Electronic ballast - 2,3 or 4 lamp	Varies	MH			\$30.00		
NEWT-5BIFIX	Install new Biax T-5 fluorescent fixture, 2-4 lamps (Not standard linear T-5 fixtures)	New Biax T-5 Fluorescent System, Electronic ballast - 2,3 or 4 lamp	Varies	Varies			\$50.00		
INCCFLR	Retrofit Incandscnt system to Circline or Compact fluorescent system	Compact Fluorescent System, Hard-wired or Circline - Per Fixture	Varies	I			\$25.00		
OCCSEN	Occupancy sensors, wall or ceiling mounted - each hard-wired and controlling a minimum of 100 watts	Fixtures controlled by occupancy sensors	Varies	N/A			\$10.00		
OCCSENFIX	Occupancy sensors installed in individual high bay fixtures and controlling a minimum of 100 fixture watts	Individual high bay fixtures controlled by occupancy sensors	Varies	N/A			\$30.00		
DIMBAL	New Dimmable Ballast (Daylight dimming with photocell control)	Electronic automatic controllable ballast	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			\$40.00		
MHPS	Replace metal halide, mercury vapor or high pressure sodium fixtures with pulse start metal halide fixtures. <i>New or Retrofit - minimum 50 watts lamp reduction.</i>	MH, MV or HPS to PS MH	Varies	Varies			\$30.00		
EXITLTS	Retrofit or replace existing incandescent or compact fluorescent exit signs with LED signs	Incandescent or compact fluorescent exit signs to LED exit signs	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 fixture columns on the front page.**

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

NOTE 3 CEE High-Performance T-8 Specification required: **4' T-8 lamp not-to-exceed nominal wattage of 32W.**

MEAN SYSTEM EFFICACY: ≥ 90MLPW for Instant Start Ballasts and ≥ 88MLPW for Programmed Rapid Start Ballasts.

MINIMUM INITIAL LAMP LUMENS: ≥ 3100 Lumens CRI: ≥ 81

LAMP LIFE: ≥ 24,000 hrs at 3 hrs. per start (based on Programmed Rapid Start Ballast).

LUMEN MAINTENANCE OR MINIMUM MEAN LUME ≥ 94% OR ≥ 2900 Mean Lumens.

Additional information along with pre-qualified products are listed on the Consortium for Energy Efficiency Web site:

<http://www.cee1.org/com/com-It/com-It-specs.pdf> and <http://www.cee1.org/com/com-It/com-It-prod.pdf>.

Manufacturers' cut-sheets are required to verify that the lamp/ballast combinations meet or exceed this criteria.

Check with lamp manufacturers for recommended minimum starting temperatures to prevent striation.

NOTE 4 **T-8 Products that do not have a HP offering will receive the appropriate rebate for the standard T-8 offering.**

REBATE REQUIREMENTS

APPLICATION OFFER: This rebate program covers products purchased and installed on or after January 1, 2007. Details of this program and rebate levels are subject to change without prior notice. Contact your local Customer Support office for the latest program details. Applications must be submitted by December 31, 2007. Availability of funding is not guaranteed.

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 two links below provide access to the industry standard spec for the definition of "High Performance" T-8 lighting systems as well as frequently updated listing of eligible lamp/ballast combinations by manufacturer: <http://www.cee1.org/com/com-lt/com-lt-specs.pdf> and <http://www.cee1.org/com/com-lt/com-lt-prod.pdf>.

ISO-NE CAPACITY PAYMENTS: By signing this document, and as a condition for receiving a rebate pursuant to this program, Customer hereby assigns to its participating electric utility, either CL&P or UI, whichever the case may be, all of its rights, title and interest in and to any and all LICAP, ICAP, or any and all other capacity-related credits or payments for which Customer may be eligible from ISO-NE or such value associated with the settlement of such LICAP, ICAP, or capacity payments as determined through the ISO-NE LICAP, ICAP, or other such like capacity supply auction or market (or its successors or replacements) for any capacity enrolled with ISO-NE.

CLASS III CONSERVATION CREDITS: In accordance with the Department of Public Utility Control's June 28, 2006 decision in Docket No. 05-07-19, DPUC Proceeding to Develop a New Distributed Resources Portfolio Standard, customer is not eligible to receive or retain any Class III conservation credits for this project. Such credits shall be retained by CL&P or UI for the benefit of their customers through the CEEF. Customer may be eligible to receive and retain Class III conservation credits for projects which do not receive funding from the CEEF. Such projects would be treated as separate projects under the Class III credit program.

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 replacement or simply a lamp and ballast replacement. Lamp only replacements do NOT qualify. Conversions from T-8 to High Performance T-8 is not rebatable. 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 HP 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 link 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, and the ballasts must be upgraded to *High Performance* electronic. 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:

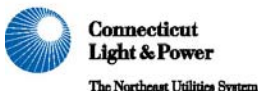
CL&P Customers

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



www.CTSavesEnergy.org

Connecticut's Energy Efficiency Programs are funded by the Conservation Charge on customer electric bills.