

Fairfield Public Schools
Fairfield, CT 06825

TO: Dr. David Title and Members of the Board of Education

FROM: Salvatore Morabito, Manager of Construction, Security and Safety

DATE: May 29, 2015

RE: **UI Energy Opportunities Program - Proposed Projects at:
Burr Elementary and Fairfield Woods Middle Schools**

Lighting upgrade projects have been proposed for the Burr Elementary and Fairfield Woods Middle School sites. The Burr Elementary proposal is by American Solar and Alternative Power, LLC. The Fairfield Woods Middle School proposal is by Nexgen, LLC. These proposed projects would replace some existing lights with energy efficient LED light fixtures and upgrade other fixtures with high performance ballasts and bulbs. These proposed projects will be paid for by the use of rebates and incentives available through the United Illuminating Company's Energy Opportunities Program.

It is requested that the Board authorize the Superintendent to enter into a Municipal Energy Opportunities Agreement with the United Illuminating Company and further authorize the Superintendent to execute the required documents in order to participate in an energy conservation program called Energy Opportunities.

Attached are the standard agreements for participation in the UI Energy Opportunities Program for proposed lighting update projects at Burr Elementary and Fairfield Woods Middle Schools along with a project summary prepared by A.S.A.P and Nexgen of the proposed lighting upgrades at each of these schools.

If you have any questions, please feel free to contact me.

c: Central Office Administration
Meg Brown

ENERGY OPPORTUNITIES

1-877-WISE USE

Municipal Energy Opportunities Standard Agreement

This Agreement is entered into by and between The United Illuminating Company ("UI") and

Town Of Fairfield ("Customer"), pertaining to the building to be retrofitted at

BURR ST 1960 ; FAIRFIELD, CT (the "Facility"), MEO Project # NpJ8, by

AMERICAN SOLAR & ALTERNATIVE POWER LLC (the "Installing Vendor"). The Effective Date of this Agreement is the date that this Agreement is signed by both Customer and UI, subject to Section 5(b)(i) hereof.

BASIC UNDERSTANDINGS

UI has a conservation program called Energy Opportunities which is designed for projects which "retrofit" existing systems with energy efficient alternatives. UI offers to pay incentives to eligible Customers who retrofit existing systems with energy efficient measures (each an "Individual Measure" and collectively, the "Measures") in the Customers' facilities. This Agreement provides the terms and conditions for payment of Standard Incentives and any applicable Bonus Incentives by UI to a Customer under the Energy Opportunities program. Customer expressly represents and warrants that the execution, delivery and performance by Customer of this Agreement are within such Customer's powers and have been duly authorized by all necessary action on the part of the Municipality (or any other person or entity, as applicable). This Agreement constitutes a valid and binding agreement of the Customer, enforceable against such Customer in accordance with its terms. Customer further acknowledges and agrees that it has selected the Installing Vendor and has and will continue to be solely responsible for such selection, which selection was in accordance with any and all legal, governmental or regulatory rules and requirements (whether federal, state, municipal or otherwise) applicable to Customer. Any payments (if any) made by UI to Installing Vendor in connection with Installing Vendor's installation of ECMs hereunder at the Facility and pursuant to Customer's direction as provided for herein, are made by UI solely in its role as administrator of conservation and load management programs approved by the Connecticut Public Utilities Regulatory Authority. UI assumes no responsibility or liability whatsoever with respect to Customer's selection of the Installing Vendor, the Installing Vendor's installation of the ECMs for Customer, and/or any agreement that Installing Vendor and Customer may have entered into in connection with such installation.

1. CUSTOMER ELIGIBILITY

Any municipality that is a retail end use UI customer is eligible to participate in the Energy Opportunities program.

2. INCENTIVES

- Subject to the terms and conditions contained herein, UI will pay incentives to Customers for the installation of Energy Conservation Measures (ECMs) as specified in the attached Schedule A, incorporated herein by reference.
- ECMs are those conservation measures that are consistent with UI's desire to achieve energy conservation and load management, and that are approved by UI in advance and in its sole discretion as set forth herein.
- Customer understands and agrees that incentive schedules for which Customer may be eligible vary based upon the classification of customers.
- ECMs are not eligible for incentives from the Energy Opportunities program if the Customer has received incentives for that specific ECM under any other UI incentive program.

3. PRE-APPROVAL & PRE-INSTALLATION SURVEY

- Among other conditions for receipt of incentives hereunder, UI is not bound to pay any incentive to Customer hereunder unless UI pre-approves in its sole discretion each ECM that has been proposed by the Customer and/ or (as determined by UI) completes a satisfactory pre-installation survey of the Customer's Facility.
- UI reserves the right, in its sole discretion, to approve or dis-approve any proposed ECM. Any failure to approve any and all ECMs shall not under any circumstances constitute approval by UI of such ECMs.
- Among other conditions for receipt of incentives hereunder, UI is not bound to pay any incentives unless the Customer commits to installing the ECM(s) evidenced by its execution and delivery of this Agreement, including Schedule A and complying with all of the terms and conditions contained in this Agreement including but not limited to the timeframe described in Paragraph 5, section b.



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The United Illuminating Company



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4. CUSTOMER APPLICATION & ANALYSIS

- a. The Customer agrees to comply with the steps outlined in Paragraph 5, section b.
- b. In addition to the execution and delivery of this Agreement, including Schedule A, UI may in its sole discretion, require Customer to perform or cause to be performed a thorough analysis of the demand and energy reduction potential and life expectancy of the proposed ECMs ("Analysis"). In some cases, UI may require, in its sole discretion, that a licensed or certified energy professional or engineer prepare this Analysis. Customer shall provide to UI specifications, engineering data or other reasonable information necessary for the completion of such Analysis of the proposed ECM.
- c. UI will review the Customer's Application and Analysis (if applicable) to determine the potential for reducing energy consumption at the Facility via the ECMs. UI reserves the right, in its sole discretion to accept, reject, or modify any calculations set forth in the Application and Analysis (if applicable) based on UI's own analysis of the ECMs, including but not limited to the incremental cost of energy and demand savings, actual energy savings, life expectancy of the ECM, and the cost of the ECM.
- d. UI reserves the right to approve only those site-specific ECMs that UI believes have cost effective energy reduction potential. In any case, UI reserves sole discretion to approve or disapprove each proposed ECM in its sole discretion.

5. CANCELLATION

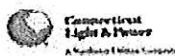
- a. Customer may cancel this Agreement at any time by providing UI with written notice of the same.
- b. UI may cancel this Agreement immediately without notice to the Customer if any of the following conditions exist:
 - i. the Customer fails to sign the Standard Agreement and Schedule A within 30 Business days of UI's approval date. For the sake of clarity, any Standard Agreement signed by Customer after such 30 Business Days shall automatically be void and of no force and effect;
 - ii. the Customer fails to initiate installation or construction of the project within 60 Business days of UI's approval date;
 - iii. the Customer has not submitted to UI a written explanation, acceptable to UI in its sole discretion outlining the reasons why the initiation of the construction process has not begun within 60 Business Days of the approval date. These situations will be subject to UI review on an individual basis;
 - iv. the Customer fails to complete the installation of the ECMs within 10 months of UI's approval date;
 - v. the Customer has not submitted an acceptable written explanation outlining the reasons why the construction process has not been completed within 10 months of the approval date. These situations will be subject to UI review on an individual basis.
- c. Upon cancellation of this Agreement by either Party, Customer will reimburse UI within 30 Business Days for any and all payments made by UI to Customer under this Agreement.
- d. If Customer does not install all of the ECMs listed in Schedule A, UI may, in its sole discretion, adjust the incentives for which the Customer is eligible according to the criteria and participation requirements of the Energy Opportunities program.

6. POST-INSTALLATION VERIFICATION

- a. UI will pay incentives to Customer only after UI has performed to its sole satisfaction a post-installation inspection of the Facility and the ECMs. In addition to the foregoing, no incentive payment shall be made by UI to Customer or Installing Vendor (as the case may be) until Customer has executed an acknowledgement in the form attached hereto as Exhibit 2.
- b. If as a result of UI's post-installation inspection, UI determines that the ECMs installed at the Facility were not installed in a manner that is consistent with the purpose of achieving energy savings, the Customer shall make modifications as determined to be necessary by UI in order to ensure achievement of energy savings. A failure by Customer to promptly perform such modifications will result in Customer forfeiture of any incentives for which it is eligible.
- c. If as a result of UI's post-installation inspection, UI determines that the operation of any equipment installed in connection with Customer's participation in the Energy Opportunities program is not consistent with generally accepted industry standards and practices, including, where applicable, state or federal building code mandates, environmental regulations, and current standards published or otherwise recognized by the American Society of Heating, Refrigeration, and Air Conditioning Engineers ("ASHRAE") for the operation of Heating, Ventilation, and Air Conditioning ("HVAC") units, Customer shall make modifications as determined to be necessary by UI to ensure compliance with such applicable standard(s). A failure by Customer to promptly perform such modifications will result in Customer forfeiture of any incentives for which it is eligible.

7. MONITORING & VERIFICATION

- a. UI reserves the right to continue to monitor any or all proposed and installed ECMs for the purpose of determining the actual value of energy reduction.



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- b. Customer agrees to grant UI access at all reasonable times to the Facility for the purpose of examining and monitoring proposed and installed ECMs. The results of this monitoring will not affect any payments already received by Customer hereunder, except for such payments that are required to be reimbursed by Customer pursuant to the terms and conditions contained in this Agreement.
- c. Customer understands and agrees that UI reserves the right to decrease any unpaid incentive amounts for which Customer is eligible hereunder if, based on the results of UI's on-site monitoring and verification, UI determines in its sole discretion that less than the proposed ECM savings are likely to result via the ECMs.

8. INCENTIVE AMOUNTS

- a. Any incentive amounts requested by Customer in connection with this program may be reduced by UI in its sole discretion and only incentive levels approved by UI in connection with this Agreement are eligible to be earned by Customer.
- b. UI reserves the right to modify any program incentives for which Customer is eligible hereunder and the incentive structure at anytime and without any prior notices to Customer.
- c. In the event that, following execution and delivery of this Agreement, the program is modified or cancelled for any reason, this Agreement will continue in effect pursuant of all of its terms and conditions.
- d. The dollar amount of the incentive available to Customer pursuant to this Agreement is calculated by UI based on UI's understanding of the total project cost of the installation of the ECMs at Customer's Facility ("UI Total Project Cost") as supplied by Customer or the installing Vendor. In the event that the actual project cost is lower than the UI Total Project Cost for any reason, including but not limited to the availability of any and all state, federal or local tax rebates that may be applicable to the Customer's installation of the ECMs at the Facility, and/or any and all rebates, incentives, credits or adjustments of any nature that installing Vendor provides to Customer and which lowers the UI Total Project Cost, then Customer shall promptly provide UI with written notice of the same and UI reserves the right, in its sole discretion, to recalculate the dollar amount of the incentive available to Customer under this Agreement based on the actual project costs and such recalculated incentive amount shall be the incentive available to Customer under this Agreement. In the event that UI has already provided Customer with an incentive payment based on the UI Total Project Cost prior to UI's receipt of notice from Customer of an actual project cost that is lower than the UI Total Project Cost, UI may require Customer to refund the difference between the incentive paid by UI to Customer and the incentive that results from UI's incentive recalculation based on the actual project cost. Any such refund shall be made by Customer within thirty (30) days after written demand of the same from UI.

9. COMPREHENSIVE PROJECTS

- a. Comprehensive projects may be eligible for bonus incentives only if specific funding is available and approved.
- b. Comprehensive projects may include energy savings from other fuel sources. However the value of the incentive will be based entirely on the electric energy savings components.
- c. Projects are considered comprehensive if they consist of two (2) or more end uses and at least one (1) measure per end use. Projects consisting of multiple measures per end use are eligible provided that the project consists of at least 2 end uses and meet the criteria in Paragraph 9 (d, e) below.
- d. No one end use can have 85% or more of the value of the project's energy savings or peak summer demand reduction.
- e. The remaining enduse(s) must account for at least 15% of the value of the project's energy savings or peak summer demand reduction (based on the cumulative total of the remaining enduse(s)).
- f. Each Measure will be reviewed independently to determine the applicability of the EO program incentives based on the Energy Opportunities Incentive guidelines.
- g. If the project is modified to where the project does not meet the comprehensive criteria then the incentive is calculated on the individual merits of the Measures due to scope changes and/or measures.
- h. The project must have all Measures installed within a reasonable time frame to receive the comprehensive Incentive. A reasonable timeframe is defined in Paragraph 5(b) above. UI reserves the right to modify the definition of a "reasonable time frame" based on the project. In the event, the scope of the project changes, the incentive amount will be calculated on the merits of the remaining individual measures.
- i. Projects will be reviewed on a case-by-case basis

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10. MULTIPLE FUEL or NON-ELECTRIC ECMs

UI reserves the right in its sole discretion (but in no event is obligated) to pay incentives for any energy saving non-electric ECM.

11. ECM INSTALLATION COST

- a. Customer shall supply UI with copies of all appropriate paperwork that documents that the construction or installation process has been initiated (such as a purchase order, bid document, contract etc. and any other documentation as requested by UI).
- b. Customer shall supply UI with copies of all paid invoices (including all materials, labor, and equipment discounts) reflecting the actual costs of design engineering, purchasing, and installing the ECMs, along with costs for demolition and disposal of materials. UI may also request and Customer shall supply UI with other reasonable documentation or verification of the Customer's actual cost for purchasing and installing the ECM. Incentives are applicable to and available with respect to incentives for ECM installation costs only those ECMs that are actually installed and Customer is eligible for incentives for ECM installation costs only to the extent that the costs are deemed reasonable by UI in its sole discretion. Costs for financing, extra equipment, spare parts, inventoried items, painting, and any other non-installed materials are not eligible for UI reimbursement under this Agreement.

12. PAYMENT

- a. Incentive payments will be made by UI within 60 days after UI has completed a post-installation verification of ECM installations and the actual costs thereof to its sole satisfaction. UI may also arrange with Customer to make incentive payments in installments. In addition to the foregoing, no incentive payment shall be made by UI to Customer or Installing Vendor (as the case may be) until Customer has executed an acknowledgement in the form attached hereto as Exhibit 2.
- b. If Customer has an established UI account, it may request that the incentive amount applicable to it under this Agreement be paid in the form of a credit to the Customer's electric bill by designating the method of payment on the Schedule A at the time of entering into this Agreement.
- c. The Customer understands and acknowledges that UI shall pay the incentives from the Energy Conservation and Load Management Fund ("C&LM Fund"). In the event that all or any part of UI's C&LM Fund is designated by legislative or regulatory action for purposes other than implementation of UI's C&LM programs, and UI determines that the C&LM Fund is insufficient to cover the cost of such programs, UI shall have no obligation to pay any incentives hereunder and shall have no further liability to the customer. Customer shall not hold UI liable in any way and shall hereby hold UI harmless from and against any and all liabilities, costs or damages incurred by Customer in the event of a program funding reduction or elimination, including but not limited to the insufficiency of the C&LM Fund to cover the cost of C&LM programs as determined by UI.

13. PERFORMANCE CONTRACTING

If the ECMs are being installed by a third party under a performance contract arrangement, UI reserves the right to determine the cost of purchasing and installing the ECMs as the costs actually incurred by the third party or in UI's sole discretion based upon UI's experiences with similar ECMs in other Customers' facilities.

14. FINANCING OPTION

- a. Third party financing for the ECMs to be installed at Customer's Facility pursuant to this Agreement may be available to Customer from a UI designated third party financing provider ("TPFP") provided that Customer's project meets (among other requirements) the following eligibility requirements:
 - (i) The project has a Simple Payback Period greater than 1.5 years but less than 7 years. Simple Payback Period means the total cost of the project divided by the estimated annual energy savings of the project through its first year of operation.
 - (ii) The project is eligible for inclusion in UI's Energy Opportunities program.
 - (iii) The project does not participate in other financing options under Connecticut Energy Efficiency Funds (CEEFF) programs administered by UI, specifically the Municipal loan with on-bill repayment.
 - (iv) The project is not a federal government or agency project.
 - (v) The project includes only equipment retrofits (i.e., it does not involve new construction or major renovation).
 - (vi) The Customer is an existing business which has been in operation for three (3) years and qualifies through the TPFP's business credit review
- b. Customer acknowledges and agrees that, in addition to the foregoing project eligibility requirements, Customer must apply to the TPFP in order to secure financing by the TPFP for its project (as described herein). The decision by the TPFP to provide (or not provide) financing to Customer in connection with its project is at the sole discretion of the TPFP and Customer acknowledges and agrees that UI is not responsible in any way for any decision by the TPFP to provide, or not to provide,



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financing for Customer's project. In addition to the foregoing, any and all financing transactions as between the TFPF and Customer in connection with the project are solely as between such parties. UI is not responsible in any way for any and all decisions, acts or omissions of the TFPF in connection with any and all financing transactions as between the TFPF and Customer in connection with Customer's project. Customer hereby agrees to indemnify, defend, and hold harmless, UI, from any and all claims, actions, costs, expense, damages, and liabilities, including reasonable attorney's fees, resulting from or arising out of Customer's decision to seek financing for its project from the TFPF, including but not limited to any and all action or inaction of the TFPF related to the same.

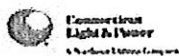
- c. In the event that Customer receives financing from the TFPF as contemplated and provided for herein, UI may, in its sole discretion, provide an "interest rate buy down" in connection with such TFPF financing. An "interest rate buy down" means an upfront payment provided by UI (through use of CEEF funds) to the TFPF in order to lower the interest rate paid by Customer to the TFPF over time. An interest rate buy down is only available to Customer in connection with TFPF loans that are no less than \$2,000 and no greater than \$100,000. In the event that Customer (i) is eligible for and receives financing for its project from the TFPF pursuant to the TFPF's EO financing program and (ii) UI determines, in its sole discretion, that it will provide an interest rate buy down in connection with such TFPF financing for Customer's project, then Customer will receive 100% of the incentive calculated by UI for the Customer's project and a partial interest buy down or subsidy, which in turn determines the available interest for the project either 4.99%, 2.99%, or 0% loans respectively. The maximum term of TFPF loans for which Customer receives an interest rate buy down from UI shall be (i) the Net Simple Payback Period for the project plus one year or (ii) five years, whichever is less. Net Simple Payback Period is defined as (A) the total cost of Customer's project that is the subject of this Agreement minus the incentive calculated by UI for the project divided by (B) the estimated energy savings expected to be experienced by Customer as a result of the project (as calculated by UI).
- d. Customer may seek additional financing from the TFPF, typically up to a total amount of \$1,000,000. Any projects that exceed \$1,000,000 would be reviewed on a case by case basis. However, financed amounts greater than \$100,000 are not eligible for any interest rate buy down from the CEEF funds. Any financed amounts greater than \$100,000 will be subject to current market interest rates and will be determined by the TFPF.
- e. Customer may seek financing of its project from any third party financing entity provided, however, any interest buy down that the CEEF Fund and UI may provide with respect to Customer's project, if at all, shall only be applicable with respect to TFPF financing pursuant to the terms and conditions provided for herein.

15. ECM MAINTENANCE

- a. In order to maintain the estimated energy savings benefit derived by UI for ten (10) years from the date of installation of the applicable ECMs, Customer agrees to repair or replace the ECMs periodically, using energy saving equipment similar or superior to the equipment that was installed originally. If Customer's performance of this provision proves to be impossible or impracticable, Customer shall, within ten (10) days of its determination of its inability to perform, notify UI promptly of its inability to perform and in such an event, UI may, at its sole and full discretion, require Customer to promptly reimburse UI for a prorated portion of all incentives and installation cost reimbursement paid under this Agreement subject to interest charges set forth in Paragraph 15(c) below.
- b. If UI in its sole discretion deems it appropriate, to ensure the efficiency gained through incentives paid by in connection with this Agreement, UI may require the Customer to maintain a service contract with a vendor acceptable to UI for the term of this Agreement, or another term determined by UI to be applicable to the specific ECM installed.
- c. Neither Customer nor its agents, contractors, or subcontractors shall knowingly circumvent the net energy performance of ECMs or related systems installed pursuant to this Agreement. In the event of a breach of this provision, UI will require Customer to reimburse in full all of the incentives and installation cost reimbursement paid for these ECMs. All Customer reimbursements to UI will include interest accrued from the date of receipt of the incentive by the Customer, at the annual rate of eight percent (8%).

16. LIMITATION OF LIABILITY

UI shall not be liable to Customer for any damages in contract or tort or otherwise including negligence caused by any activities in connection with this Agreement or in connection with the retrofitting of the Facility, including without limitation the actions or omissions of any design professional or any employee, agent, contractor, subcontractor or consultant retained by UI. UI's liability under this Agreement shall be limited to paying the incentives specified for the ECMs but only as and if such incentives become payable to Customer and only to the extent that such incentives are not subject to repayment as provided for in this Agreement. In no case shall UI be liable to Customer for any special, indirect, consequential, incidental, punitive or exemplary damages of any kind, including but not limited to loss of use, lost profits, out of pocket expenses by statute, tort or contract, in equity under any indemnity provision or otherwise.



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17. INDEMNIFICATION

Customer agrees to indemnify, defend and hold harmless, the UI, from any and all claims, actions, costs, expenses, damages, and liabilities including reasonable attorney's fees, resulting, from death or bodily injury or damage to real or personal property, to the extent caused by the negligence or misconduct of Customer's employees or other authorized agents in connection with Customer's activities within the scope of this Agreement, including, without limitation, claims arising from Customer's installation and/or maintenance of HVAC units in compliance with current standards for the performance of such units published or recognized by ASHRAE. Customer's duty to indemnify shall continue in full force and effect, notwithstanding the expiration or early termination hereof, with respect to any claims based on facts or conditions that occurred prior to the expiration or termination of this Agreement.

18. NO WARRANTIES

- a. Customer acknowledges and agrees that neither UI nor any of UI's employees or consultants are responsible for assuring that the design, analysis, engineering, and retrofitting of the Facility or installation of any or all of the individual ECMs or equipment is proper or complies with any particular laws, codes, or industry standards, including, without limitation, current standards published or otherwise recognized by ASHRAE for HVAC units.
- b. Customer understands and agrees that UI does not represent, warrant, or guarantee the product or service of any particular vendor, manufacturer, contractor, or subcontractor. Customer further understands and agrees that UI does not represent, warrant or guarantee the safety of the ECMs or that the installation of any ECMs pursuant to this Agreement will result in any level of energy savings or result in any measurable energy related benefit.

19. NO TAX LIABILITY

UI is not responsible for any tax liability imposed on the Customer or the Customer's authorized recipient as a result of the incentive payment.

20. LIMITED SCOPE of REVIEW

UI's scope of review for purposes of this Agreement is limited to determining if the design and installation of the ECMs have met the program conditions. UI does not include any kind of safety or performance review of any equipment installed or serviced in connection with this Agreement or any planned or installed ECMs, including, without limitation, any compliance by HVAC units with current standards published or otherwise recognized by ASHRAE

21. OBLIGATION TO INSTALL

This Agreement does not obligate Customer to install any of the ECMs that have been approved by UI. However, if Customer, subsequent to such approval, elects to install the ECMs, the terms and conditions of this Agreement shall govern the payment of incentives and the maintenance of the ECMs at the Facility.

22. PROGRAM CHANGES

UI reserves the right to cancel or change the Energy Opportunities program at any time without prior notice to Customer. Except as otherwise provided in this Agreement, all fully executed agreements that are in compliance with the terms and conditions contained herein will be processed to completion under the terms and conditions of the Energy Opportunities program in effect on the Effective Date.

23. PAYMENTS ASSIGNED TO CONTRACTORS

- a. UI Customers may designate in writing the Customer's Installing Vendor as the sole recipient of any incentives and/or installation cost reimbursements owed to Customer under this program. Customer's written designation shall also state that Customer acknowledges and agrees that it has no further claim or right, title or interest in and to any such incentives and / or installation reimbursements.
- b. In addition to the requirements set forth in Paragraph 23 (a) above, Customer must request the change in incentive / installation cost recipient by signing the designated area on Schedule A.
- c. In addition to the requirements set forth in Paragraph 23 a and b) above, if Customer assigns the incentives and/or installation cost reimbursements to the Installing Vendor, Customer must supply or cause its designated recipient to supply UI with a Letter of Acknowledgement and a completed W-9 containing designated recipient's Federal Tax Identification number.
- d. In addition to the foregoing, prior to the release by UI of any incentive/installation cost reimbursement by UI to the Installing Vendor, Installing Vendor shall execute an acknowledgment in the form attached hereto as Exhibit 1 and Customer shall cause Installing Vendor to execute the same.

24. PUBLICITY OF CUSTOMER PARTICIPATION



Empowering you to make smart energy choices



Connecticut Light & Power
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UI may, with Customer's consent, publicize Customer's participation in the program, the results of Customer's participation in the program, the value of incentives paid to Customer by UI under the program, and any other information relating to or in connection with Customer's participation in the program.

25. BALLAST & LAMP DISPOSAL

Customer agrees to comply with all laws and regulations promulgated by the State of CT Department of Environmental Protection and all other applicable laws, rules and regulations relating to the proper disposal of fluorescent lamps and PCB ballasts. The costs incurred by Customer in connection with the disposal of fluorescent lamps and PCB ballasts may be included in Customer's calculation of costs for installing the ECMs. Customer must provide to UI documentation acceptable to UI that verifies the proper disposal of all hazardous materials.

26. EXISTING and NEW SELF-GENERATION

The incentive amount paid by UI to Customer under this Agreement will be determined by UI based on UI's evaluation of the net benefit of the ECMs for which Customer is receiving an incentive to UI's customers as a whole ("Net Customer Benefit"). Accordingly, UI will establish and reserves the right to reduce the incentive amount in order to reflect the impact of Customer's existing self-generation or new self-generation installed after the Effective Date hereof (as the case may be) to reflect the impact of such self-generation on UI's Net Customer Benefit calculation. UI may require Customer to refund to UI all or a portion of the incentive amount paid to reflect the reduced Net Customer Benefit. Any interconnection of new self-generation to the utility grid must comply with UI's then current policies and standards governing such interconnections.

27. FORWARD CAPACITY MARKET PAYMENTS / CREDITS

By signing this document and as a condition to receiving an incentive pursuant to this program, Customer hereby assigns to UI 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 payments or any and all other capacity-related credits, payments and/or benefits for which Customer is eligible) and that are associated with or applicable to Customer's participation in the Energy Opportunities Program. Customer hereby assigns to either UI all of its right, title and interest in and to any and all such capacity payments, credits and/or benefits and shall take any and all action, including executing and delivering any and all documents and/or instruments, as requested by UI to evidence the same. 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.

28. CLASS III CONSERVATION CREDITS

In accordance with the Department of Public Utility Control's ("DPUC's" now the Public Utilities Regulatory Authority or "PURA") September 29, 2008 decision in Docket No. 05-07-19RE01, DPUC Proceeding to Develop a New Distributed Resources Portfolio Standard (Class III) - 2007 Revisions (as supplemented by the DPUC's February 11, 2010 decision in Docket No. 05-07-19RE01), Customer is not eligible to receive or retain any Class III conservation credits in connection with the Energy Opportunities Program and Customer hereby acknowledges and agrees the same. Customer further acknowledges and agrees that such credits shall be retained by UI for the benefit of their customers through the Connecticut Energy Efficiency Fund. In the event that the DPUC amends or modifies the allocation of Class III conservation credits as reflected in its September 29, 2008 decision, then the allocation of such credits utilized by UI shall be the allocation in effect (per the applicable PURA decision) on the Effective Date.

29. MISCELLANEOUS

- a. The term of this Municipal Energy Opportunities Agreement will commence as of the Effective Date and continue for ten (10) years from date of the first payment made by UI to Customer pursuant to Paragraph 11 above unless sooner terminated as provided for herein.
- b. Customer understands that UI is willing to pay the Energy Opportunities incentives based on the long-term value of the energy reductions to UI.
- c. If at any time during the term of this Agreement, and during which time the Facility is occupied by the Customer, or any affiliate of the Customer, the operation of the Facility is modified so as to diminish the value of the energy efficient measures, UI may require reimbursement by Customer of all or a prorated percentage of the Energy Opportunities incentives and installation cost reimbursements paid by UI to Customer hereunder.
- d. Where Customer has installed or modified any HVAC unit in connection with Customer's participation in the Energy Opportunities Program, Customer shall, prior to UI's payment of an incentive, provide UI with a written statement confirming that such HVAC unit meets or exceeds the current standards for the operation of such HVAC unit as recognized by ASHRAE. Customer's failure to provide such written confirmation shall result in UI's withholding of any and all incentives for which Customer is eligible for hereunder until such failure is corrected.



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The United Illuminating Company



YankeeGas
Connecticut Natural Gas Company
A National Grid Company

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ENERGY OPPORTUNITIES

1-877-WISE USE

Municipal Energy Opportunities Standard Agreement

- e. During the term of this Agreement, Customer will require any successor to its interest in the Facility during the term of this Agreement (whether direct or indirect, by sale of the Facility to a third party, by expiration or termination of Customer's lease of the Facility, or by purchase, merger or consolidation of Customer or all or substantially all of its assets by with or into a third party) by an agreement in form and substance satisfactory to UI, to assume and agree expressly to be bound by the provisions of this Agreement. Failure of Customer to obtain such agreement by the effectiveness of any such succession shall be a breach of this Agreement and shall entitle UI to reimbursement for all or a prorated percentage of the incentives paid by UI to the Customer under this Agreement.
- f. If either UI or Customer desires to modify the content of this Agreement, the modification must be in writing and signed by an authorized representative of each party in order for the modification to be enforceable against that party.
- g. Customer may not assign this Agreement without the written consent of UI. This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, executors, personal representatives, successors and assigns.
- h. Any waiver of any breach of any provision of this Agreement shall not be a waiver of any subsequent breach of the same or any other provisions of this Agreement.
- i. All notices shall be in writing and delivered personally or by overnight courier to the addresses of the parties set forth at the beginning of this Agreement. Any such notice shall be deemed given on the date delivered.
- j. This Agreement shall be governed and construed in accordance with the laws of the State of Connecticut without regard to its conflicts of laws and principles.
- k. All requirements, terms, conditions and provisions of this Agreement which by their nature are incapable of being fully performed within the period of performance hereof shall survive cancellation, termination or expiration of this Agreement, including but not limited to any and all reimbursement obligations of Customer hereunder.
- l. The relationship of the parties is that of independent contractors. None of the provisions of this Agreement is intended to create nor will be construed to create an agency, partnership or employment relationship between or among the parties. No party or any of its officers, members, or employees, will be deemed to be the agent, employee or representative of another party.
- m. This Agreement, including all schedules attached hereto, forms the entire agreement between the parties and supersedes all other communications and representations related to the subject matter hereof.
- n. A "Business Day" as used in this Agreement is a day for which commercial banks are open for business in Connecticut

In order to evidence its agreement to the above terms, each party has signed or caused an authorized representative to sign this Agreement on the date(s) specified below.

CUSTOMER:

By: _____
(print)
Name: _____
(sign)

Title: _____ Date: _____

THE UNITED ILLUMINATING COMPANY:

By: Gary Pattavina
Title: Energy Engineer Date: 05/07/2015

By: [Signature]
Title: Manager, C&I Engineers Date: 5/12/15



Commercial
Light & Power
A National Union Company



The United Illuminating Company



A National Union Company

MEO Project # NpJ8 Agreement Printed 05/07/2015 11:17:05 AM

ENERGY OPPORTUNITIES

1-877-WISE USE

Municipal Energy Opportunities Standard Agreement

EXHIBIT 1

AGREEMENT REGARDING Town Of Fairfield MUNICIPAL ENERGY OPPORTUNITIES STANDARD AGREEMENT

This Agreement regarding Town Of Fairfield Municipal Energy Opportunities Standard Agreement Project #NpJ8 ("Agreement") is entered into this 07 day of May, 2015 ("Effective Date") by and among The United Illuminating Company ("UI"), and AMERICAN SOLAR & ALTERNATIVE POWER LLC.

WITNESSETH:

WHEREAS, the Town Of Fairfield ("Customer") entered into a certain Municipal Energy Opportunities Standard Agreement with UI with an effective date of 05/07/2015 ("MEO Agreement"), which MEO Agreement is attached hereto as Exhibit 1 and incorporated herein by reference; and

WHEREAS, the MEO Agreement governs the Customer's participation in the Municipal Energy Opportunities program ("Program") and certain energy efficient retrofits ("Retrofits") to a certain building located at BURR ST 1960 : FAIRFIELD, CT (the "Facility" as defined in the MEO Agreement) to be performed by AMERICAN SOLAR & ALTERNATIVE POWER LLC (or "Installing Vendor" as defined in the Agreement); and

WHEREAS, the MEO Agreement (along with its attachments and exhibits including a Financial Agreement Addendum) sets forth (i) a total project cost of \$ 146,970.00 ("Total Project Cost"), (ii) an incentive of \$ 51,917.00 ("Incentive") and (iii) a balance of \$ 95,053.00 ("Balance"); and

WHEREAS, pursuant to the MEO Agreement, the Balance is to be repaid by Customer via monthly payments of \$ 1,980.28 on Customer's UI electric service bills for a period of Forty Eight (48) months; and

WHEREAS, the Program and MEO Agreement contemplates that the Customer will (i) receive a payment from UI in an amount equal to the Total Project Cost (ii) pay the Installing Vendor the Total Project Cost and (iii) make the monthly payments as set forth in the MEO Agreement until the Balance is paid in full; and

WHEREAS, the Customer is solely responsible for securing an installing vendor and paying the Installing Vendor in connection with its Program project; and

WHEREAS, the Customer has requested that UI pay the Total Project Cost directly to the Installing Vendor.

NOW, THEREFORE, in consideration of the premises and the mutual covenants contained herein, Customer, UI and Installing Vendor agree as follows:

1. Payment of Total Project Cost. Subject to the terms and conditions contained in this letter agreement, UI agrees to pay the Total Project Cost directly to the Installing Vendor.
2. Payment of Balance. Customer agrees to pay to UI an amount equal to the Balance, which Balance will be paid to UI monthly as part of Customer's UI electric service bill over a period of Forty Eight (48) and in monthly payment amounts of \$ 1,980.28.



American
Solar & Alternative
Power LLC



The United Illuminating Company



MEO Project # NpJ8 Agreement Printed 05/07/2015 11:17:05 AM

ENERGY OPPORTUNITIES

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Municipal Energy Opportunities Standard Agreement

3. **Relationship of Parties.** The Parties acknowledge and agree that (i) Customer has contracted Installing Vendor to perform the energy efficient retrofits, (ii) Installing Vendor is solely responsible for the installation of the energy retrofits at the Facility, (iii) in connection with the Program, the MEO Agreement, and this Agreement, UI's sole responsibility is as an administrator of the Connecticut Energy Efficiency Fund, (iv) neither Customer nor Installing Vendor shall hold UI responsible in any way for the Retrofits at the Facility in connection with the Program and MEO Agreement, including but not limited to their installation, operation and maintenance, and (v) Installing Vendor agrees to indemnify, defend and hold UI, its affiliates, successors, assignees and each of its and their shareholders, directors, officers, employees and agents harmless from and against any and all suits, claims, and proceedings resulting in liabilities, damages, costs, losses and expenses, including court costs and reasonable attorneys' fees, which arise out of or relate to the Installing Vendor's installation of the Retrofits at the Facility.

4. **MEO Agreement.** Except as expressly modified herein, all of the terms and conditions contained in the MEO Agreement remain in full force and effect.

IN WITNESS WHEREOF, UI, Customer and Installing Vendor have each caused this Agreement to be executed in its name by one of its officers thereunto duly authorized as of the Effective Date.

CUSTOMER:

By: _____
(print) _____
Name: _____ Title: _____ Date: _____
(sign) _____

INSTALLING VENDOR: AMERICAN SOLAR & ALTERNATIVE POWER LLC

By: ELLIOT ISBAN
(print) _____
Name: [Signature] Title: Pres. Date: 5/12/15
(sign) _____

THE UNITED ILLUMINATING COMPANY:

By: Gary Pattavina
Title: Energy Engineer Date: 05/07/2015



Connecticut
Alpha & Omega
A National United Company



The United Illuminating Company



MEO Project # NpJ8 Agreement Printed 05/07/2015 11:17:05 AM

ENERGY OPPORTUNITIES

1-877-WISE USE

Financial Agreement Addendum

This Financial Agreement which forms part of the Municipal Energy Opportunities Standard Agreement and is effective as of the date signed by all parties below (the "Effective Date") is entered into by and between The United Illuminating Company ("UI") and Town Of Fairfield (the "Customer"), pertaining to the building to be retrofitted at BURR ST 1960 ; FAIRFIELD, CT (the "Facility"), Municipal Energy Opportunities Project # NpJ8.

The Customer agrees that UI makes no warranties, expressed or implied, regarding the serviceability of any products installed or purchased in connection with the Facility retrofit. The Customer also agrees that it is solely responsible for selecting and contracting with the contractor who will be performing the Facility retrofit, which contractor is identified below ("Contractor"). The Customer and Contractor (as evidenced by Contractor's signature below) each agree to indemnify and hold harmless UI and its officers, directors, employees or affiliates thereof, from any damages, fines, settlements or judgments which directly arise from or are caused by the wrongful, or negligent acts or omissions of any party in the conduct or performance of the Facility retrofit by the Contractor. The Customer shall specifically indemnify and hold harmless, UI with respect to all work contracted for between the Customer and the Contractor, and from any damages, fines, settlements or judgments which directly arise from or are caused by the acts or omissions of the Contractor.

The Customer understands and agrees that UI will not be responsible for any tax liability imposed on the Customer as a result of its participation in the Energy Opportunities program. Customer/Vendor must supply its Federal Tax Identification Numbers or Social Security Number as they are required for distribution of UI incentives. UI will issue a 1099 form to each non-incorporated customer receiving an aggregate incentive payment in excess of \$600.00 in any calendar year.

Customer hereby requests that UI assist financially in connection with the installation work described in Schedule A of the Municipal Energy Opportunities Standard Agreement, at the service address listed below, pursuant to UI's terms and conditions applicable to the Energy Opportunities program. UI and the Customer agree that, in addition to any and all other terms and conditions of the Energy Opportunities program, upon the Customer or Contractor confirming completion of the installation work, and UI's post installation inspection and project verification as well as Customer's execution of an acknowledgement in the form attached hereto as Exhibit 2, UI will issue a check for all amounts approved by UI. The Customer shall be responsible for amounts, if any, in excess of amounts approved by UI and will pay such amounts directly to Contractor.

The Customer also agrees to pay UI the balance of the project cost or the pre-determined total amount as detailed below. The monthly payments will be included by UI on the Customer's regular electric service bill, and the first payment will be due on the first billing cycle following the processing of this agreement. In the event this account is finalized due to selling or closing the facility, the Customer will be required to pay the unpaid balance of this financing agreement within 30 days. By my signature below, I certify that I have read, understood and agree to the terms of this agreement.



Connecticut
Light & Power
A National Grid Company



The United Illuminating Company



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ENERGY OPPORTUNITIES

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Financial Agreement Addendum

\$146,970.00 Total Cost	\$ 51,917.00 Incentive	\$.00 Co-Pay	\$ 95,053.00 Balance	\$ 1,980.28 Monthly Pymt.	48 Term
----------------------------	---------------------------	------------------	-------------------------	------------------------------	------------

Please Note: On the initial bill only, the total balance amount will be displayed with an equal amount as a credit. This is for accounting purposes only.

12-3123456

Federal Tax ID or Social Security #, Customer

100000466625

Contract Account #, Customer

Town Of Fairfield

Account Name, Customer

Sal Morabito

Contact, Customer

1960 BURR ST ; FAIRFIELD, CT 06824

Service Address, Customer

45-4048607

Federal Tax ID or Social Security #, Contractor

AMERICAN SOLAR & ALTERNATIVE POWER LLC

Name, Contractor

Elliot ISBAN / Melissa DORVILLE

Contact, Contractor

Elliot ISBAN / Melissa DORVILLE

Signature, Contractor

85 OLD LONG RIDGE ROAD, SUITE A1 ; STAMFORD, CT 06903

Address, Contractor

(Customer's Signature)

ACCEPTED: The United Illuminating Company

By

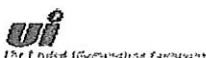
UI Administration

Ray W. Haller

(Date)

(Date)

5/12



MEO Project # NpJ8 Agreement Printed 05/07/2015 11:17:05 AM

ENERGY OPPORTUNITIES

1-877-WISE USE

Municipal Energy Opportunities Standard Agreement

EXHIBIT 2

Reference is made to that certain Municipal Energy Opportunities Standard Agreement entered into by and between The United Illuminating Company ("UI") and the Town Of Fairfield ("Customer") as of "Effective Date" of the Municipal Energy Opportunities Standard Agreement project# NpJ8. Customer hereby acknowledges and agrees that:

1. The ECMs (as defined in the MEO Agreement) installed by Installing Vendor (as defined in the MEO Agreement) were installed to the satisfaction of the Customer and are hereby accepted in all respects by the Customer; and
2. UI is authorized to release the Total Project Cost (as defined in Exhibit 1 of the MEO Agreement) to the Installing Vendor.

Town Of Fairfield

By: _____

Its: _____
Authorized Representative



Connecticut
Light & Power
A National Grid Company



The United Illuminating Company



MEO Project # NpJ8 Agreement Printed 05/07/2015 11:17:05 AM

EO Incentive Application Worksheet - Schedule A

Facility Name: <u>Town Of Fairfield</u>	Phone: <u>(203)255-7363/</u>
Service Address: <u>Burr St 1960</u>	Facility Use: _____
City: <u>Fairfield</u> Zip: <u>06824</u>	Square Footage: <u>60,000</u>
Contact Person: <u>Morabito, Sal</u>	EO Rep: <u>Pattavina, Gary</u>
Federal Tax I.D. No: <u>12-3123456</u>	EO Project No: <u>NpJ8</u>

Custom Measure	Quantity	Cost(\$)	kWh Usage Change	Savings(\$)
----------------	----------	----------	------------------	-------------

Location: Location 1

LED 2X4 45W TROFFER XELEUM	24	\$8,000	-17,902	\$2,506
LED RETRO SEE LIGHTING SCHED	1	\$138,970	-155,153	\$21,721

Custom Measure total:	\$146,970	-173,055	\$24,227
------------------------------	------------------	-----------------	-----------------

Mandatory Cap	Quantity	Cost(\$)	kWh Usage Change	Savings(\$)
---------------	----------	----------	------------------	-------------

Location: Project/taxid Level

Mandatory Cap Adj.	1	\$0	0	\$0
--------------------	---	-----	---	-----

Mandatory Cap Adjustment	\$0	0	\$0
---------------------------------	------------	----------	------------

Customer Application & Analysis -

In addition to the terms and conditions contained in UI's Standard Agreement and Schedule A, UI may require a thorough analysis of the demand and energy reduction potential, and the life expectancy of proposed Energy Conservation Measures (ECMs). UI may require the Customer to provide specifications, engineering data, or other reasonable information necessary to complete an independent analysis. UI reserves the right to accept, reject or modify any calculations based on UI's own analysis including but not limited to the incremental cost of energy or demand savings, actual energy savings, life of the ECM, and the cost of the ECM. UI's approved and unsigned proposal will remain valid for thirty (30) days. If proposal is not accepted during this period, account re-qualification will be required. UI will approve only those site-specific ECM's which it believes have cost effective energy and demand reduction potential. In any case, UI reserves sole discretion to approve or disapprove any proposed ECM.

Program Changes -

The Program's Terms and Conditions may be changed by UI at any time without notice. Pre- approved applications however will be processed to completion under the Terms and Conditions in effect at the time of UI pre-approval.

EO Incentive Application Worksheet - Schedule A

Summary Page of EO Schedule A of project NpJ8 as of 05/07/2015 11:10:34

Facility Name:	<u>Town Of Fairfield</u>	Phone:	<u>(203)255-7363/</u>
Service Address:	<u>Burr St 1960</u>	Facility Use:	<u></u>
City:	<u>Fairfield</u>	Zip:	<u>06824</u>
Contact Person:	<u>Morabito, Sal</u>	Square Footage:	<u>60,000</u>
Federal Tax I.D. No:	<u>12-3123456</u>	EO Rep:	<u>Pattavina, Gary</u>
		EO Project No:	<u>NpJ8</u>

TOTAL COST: **\$146,970**

TOTAL SAVINGS: **\$24,227**

TOTAL INCENTIVES: **\$51,917**

MONTHLY PAYMENT: **48 @ \$1,980.28**

Customer or Customer's agent name (print): _____

Customer or Customer's agent Signature: _____

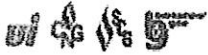
Title _____ Date _____

I authorize UI to issue the incentive check, for the above amount, to
AMERICAN SOLAR & ALTERNATIVE POWER LLC
(the installing contractor, facility owner or other).

Customer or Customer's agent Signature

Date

VENDOR #



**Request for Taxpayer
Identification Number and Certification**

Name	American Solar & Alternative Power A Krespan company
Other Name Used / DBA	
Mailing Address	85 old Long Ridge Rd, Stamford, CT 06903

Employer Identification Number 45-4048607 or Social Security Number _____ - _____ - _____

Exempt Payee ☐

Please select one of the following business entities below:

- ☐ **Individual/Sole Proprietorship**
If a sole proprietor, please clearly print the name of the business owner _____
- ☐ **Partnership**
You must clearly print the names of at least 1 of the partners / principal owners of the company: _____
- ☐ **Corporation**
- ☐ **Tax Exempt Organization: Not-for-Profit, Federal, State, or Local Government Agencies**
- ☐ **Limited Liability Company (LLC) - If selecting this choice, please check one of the following:**
- _____ The company (LLC) will file a Federal Income Tax as an Individual - Please provide name and Social Security / Employer I.D. # of the individual: _____
- _____ The company (LLC) will file a Federal Income Tax return as a Partnership - Please provide name of one of the partners: _____
- ☒ The company (LLC) will file a Federal Income Tax return as a Corporation

Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is the correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. Citizen or other U.S. person (including a U.S. resident alien).

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN.

Print Name <u>Elliot Isban</u>	
Signature <u></u>	Date <u>5/12/2015</u>
Telephone No. <u>203 324-7186</u>	Fax No. _____ Email _____



American Solar & Alternative Power

85 Old Long Ridge Road, Suite 1A
Stamford, CT 06903
(203)324-7186 Fax: (203)348-4539

Burr Elementary School
Sal Morabito
1960 Burr Road
Fairfield CT 06824

May 11, 2015



Dear Mr. Morabito:

We have completed our analysis of your current lighting system and our calculations of the savings you will achieve by installing our recommended high energy-efficient lighting measures. The most important advantages you will achieve as a result of your lighting upgrade are as follows:

- You will have a state-of-the-art lighting system that has been specifically designed for your particular lighting requirements. This will mean a substantial upgrade in the quality of light in your work place.
- You will save **\$25,072.59** annually through reduced utility bills. Savings will be even greater if you consider that utility rates will likely continue to go up, and that you should expect substantially lower maintenance and cooling costs.
- You will receive a rebate check in the estimated amount of **\$51,917.00** from UI shortly after the installation is completed.
- You will gain all the advantages of the new **LED** systems.
- You will be contributing to the country's **conservation** efforts. Your installation of the recommended high-efficiency measures will eliminate the emission of 183,866 lbs. of CO₂, 668,602 lbs. of SO₂ and 234,011 lbs. of NO_x into the atmosphere **each year**.
- You can achieve the above with **no** significant up front capital investment.

The details and supporting data are attached for your review. We look forward to working with you to install your new lighting system so you can begin to realize the savings which will result.

Sincerely,

Elliot Isban
CEO
Encl.



Area of Revised Locations
Front Lobby -MR16's
Room 166
Room 167
Adj Room to 166
Room 173
Room 165
Room 159
Office
Room 156
Room 140
Room 139
Kitchen
Stage
Gym
Room 122A
Room 184
Room 106
Room 110
Room 111
Room 115
Room 122
Room 116
Room 120
Room 105
Room 101
Room 206
Room 216
Room 210
Room 245
Room 244
Room 201
Room 205
Room 211
Room 242

*** Added Room with Occ



Room 215
Cafeteria ****
Taylor Room
Room 220
Room 229
Room 230
Room 232
Room 239
Room 236
Room 235
Room 241



American Solar & Alternative Power

85 Old Long Ridge Road, Suite 1A
Stamford, CT 06903
(203)324-7186 Fax: (203)348-4539

Proposal 6705

May 11, 2015

Prepared for:

Burr Elementary School
Sal Morabito
1960 Burr Road
Fairfield CT 06824

Ship To:

Revised
NEW UPDATE

Utility Name

Utility Acct No

Utility App #

- We will supply high-efficiency lighting systems as per attached survey.
- We will assist in securing the utility rebate by coordinating the paperwork, including submitting the calculation back-up sheets and inspection form.
- We will furnish labor in accordance with the attached specifications.

Note: When new fixtures are not used, the repair or replacement of Lenses, Sockets, Wiring and Glassware are not included in this proposal and the price quoted represents an estimated count which may have to be adjusted.

Savings

Total Watts Saved	56,153
Annual kWh Saved	168,446
Average Hours Use Per Week	58
Utility Charge Per kWh	15
Monthly Utility Savings	\$2,089.38
Annual Utility Savings	\$25,072.59
5 Year Savings	\$133,936
10 Year Savings	\$288,382

More Light. Less Energy. Reduced Operating Expense!

Purchase Option

Gross Price Before Rebate (plus sales tax if appl.)	\$146,970.00
Less Total Rebate	\$51,917.00
Net Price After Rebate	<u>\$95,053.00</u>

Annual IRR

Experience Counts!



Client Copy

American Solar & Alternative Power

85 Old Long Ridge Road, Suite 1A
Stamford, CT 06903
(203)348-7186 Fax: (203)348-4539

Client: Burr Elementary School
Sal Morabito
1960 Burr Road
Fairfield CT 06824

Ship To: Revised

Proposal # 6705

NEW UPDATE
kwh match utility

Hours Use Per Week 50
Utility Charge Per kWh .15
Total Square Footage

Utility Name
Utility Acct No
Utility Application No

Existing				Location	New Item	Qty	Repl. Watts	Total Watts	Watts Saved
Qty	Equipment	Watts	Total						
19	2x4, 3F32 w/3 T-8 lamps	88	1,672	Front Lob *Xe3	2x4 Rec 35w LED Troffer	19	18	342	1,330
53	MR16	50	2,650		LED MR16	53	7	371	2,279
12	2x4, 3F32 w/3 T-8 lamps	88	1,056	*Xe2	2x4 Rec 35w LED Troffer	12	18	216	840
51	2x4, 2-lamp T8 Priz-C-Refl	58	2,958		LED 18W 4' T8 LED TUBE	102	18	1,836	1,122
3	2x4, 3F32 w/3 T-8 lamps	88	264	167 *Xe1	2x4 Rec 35w LED Troffer	3	18	54	210
4	2x4, 3F32 w/3 T-8 lamps	88	352	166 *Xe1	2x4 Rec 35w LED Troffer	4	18	72	280
10	2x4, 3F32 w/3 T-8 lamps	88	880	Aja Rm *Xe2	2x4 Rec 35w LED Troffer	10	18	180	700
1	2x4, 2-lamp T8 Priz-C-Refl	58	58		2x4 Rec 35w LED Troffer	1	35	35	23
1	2x4, 3F32 w/3 T-8 lamps	88	88	Xerox	NO CHANGE		0	0	88
12	2x4, 3F32 w/3 T-8 lamps	88	1,056	173 *Xe2	2x4 Rec 35w LED Troffer	12	18	216	840
10	2x4, 3F32 w/3 T-8 lamps	88	880	165 *D/H	2x4 Rec 35w LED Troffer	10	18	180	700
1	2F12 wall mounted cover		0	Bath	NO CHANGE		0	0	0
2	2x4, 3F32 w/3 T-8 lamps	88	176	Heek	NO CHANGE		0	0	176
3	2x4, 3F32 w/3 T-8 lamps	88	264	159/Conf Rm	NO CHANGE		0	0	264
1	2x4, 3F32 w/3 T-8 lamps	88	88	162	NO CHANGE		0	0	88
7	2x4, 3F32 w/3 T-8 lamps	88	616	Office *Xe1	2x4 Rec 35w LED Troffer	7	25	175	441
2	2x4, 3F32 w/3 T-8 lamps	88	176	157	NO CHANGE		0	0	176
1	2x4, 3F32 w/3 T-8 lamps	88	88	158	NO CHANGE		0	0	88
4	2x4, 3F32 w/3 T-8 lamps	88	352	156 *D/H	2x4 Rec 35w LED Troffer	4	18	72	280
1	2x4, 2-lamp T8 Priz-C-Refl	58	58	Store Rm	NO CHANGE		0	0	58
2	2x4, 3F32 w/3 T-8 lamps	88	176	Hallway	2x4 Rec 35w LED Troffer	2	35	70	106
2	2x4, 3F32 w/3 T-8 lamps	88	176	153	NO CHANGE		0	0	176
2	2x4, 3F32 w/3 T-8 lamps	88	176	154	NO CHANGE		0	0	176
1	2x4, 3F32 w/3 T-8 lamps	88	88	151	NO CHANGE		0	0	88
2	2x4, 3F32 w/3 T-8 lamps	88	176	152	NO CHANGE		0	0	176
2	2x4, 3F32 w/3 T-8 lamps	88	176	149	NO CHANGE		0	0	176
2	2x4, 3F32 w/3 T-8 lamps	88	176	150	NO CHANGE		0	0	176
1	2x4, 3F32 w/3 T-8 lamps	88	88	148	NO CHANGE		0	0	88
2	2x4, 3F32 w/3 T-8 lamps	88	176	146	NO CHANGE		0	0	176
1	1x4, 1-lamp 4' T8	30	30	147	NO CHANGE		0	0	30
2	2x4, 2-lamp T8 Priz-C-Refl	58	116	145	LED 18W 4' T8 LED TUBE	4	18	72	44
1	2x4, 3F32 w/3 T-8 lamps	88	88	148	NO CHANGE		0	0	88
1	2x4, 2-lamp T8 Priz-C-Refl	58	58	143	LED 18W 4' T8 LED TUBE	2	18	36	22
2	2x4, 3F32 w/3 T-8 lamps	88	176	144 *Xe1	2x4 Rec 35w LED Troffer	2	18	36	140
1	2x4, 3F32 w/3 T-8 lamps	88	88	141	NO CHANGE		0	0	88

Existing				Location	New Item				
Qty	Equipment	Watts	Total			Qty	Repl. Watts	Total Watts	Watts Saved
6	2x4, 3F32 w/3 T-8 lamps	88	528	140 <i>D/H</i>	2x4 Rec 35w LED Troffer	6	18	108	420
38	2x4, 2-lamp T8 Priz-C-Refl	58	2,204	Hallway	LED 18W 4' T8 LED TUBE	76	18	1,368	836
24	2x4, 3F32 w/3 T-8 lamps	88	2,112	139 <i>D/H</i>	2x4 Rec 35w LED Troffer	24	18	432	1,680
8	1x8, 4F32 w/4 T-8 lamps	112	896	Kitchen	2x4 Rec 45w LED Troffer	8	45	360	536
2	1x8, 4F32 w/4 T-8 lamps	112	224	Aja room	2x4 Rec 45w LED Troffer	2	45	90	134
1	2X2 2F17 T8		0	Bath	NO CHANGE		0	0	0
4	2x4, 2-lamp T8 Priz-C-Refl	58	232	Stage	LED 18W 4' T8 LED TUBE	8	18	144	88
24	8F40 T8 Rec Arch Troff #8	390	9,360	Gym	LED 160w Pend High Bays	24	160	3,840	5,520
4	2x4, 2-lamp T8 Priz-C-Refl	58	232	122 <i>AD/H</i>	2x4 Rec 35w LED Troffer	4	18	72	160
5	2x4, 2-lamp T8 Priz-C-Refl	58	290	Hallway	LED 18W 4' T8 LED TUBE	10	18	180	110
3	2x4, 3F32 w/3 T-8 lamps	88	264		2x4 Rec 35w LED Troffer	3	35	105	159
1	1x8, 4F32 w/4 T-8 lamps	112	112	Mens	2x4 Rec 45w LED Troffer	1	45	45	67
2	1x8, 4F32 w/4 T-8 lamps	112	224	Women	2x4 Rec 45w LED Troffer	2	45	90	134
39	2x4 4-lamp 40w Pin Base	184	7,176	Library/*Xe5	2x4 Rec 45w LED Troffer	39	45	1,755	5,421
2	2x4, 3F32 w/3 T-8 lamps	88	176	182/sens	2x4 Rec 35w LED Troffer	2	18	36	140
2	2x4, 3F32 w/3 T-8 lamps	88	176	180	NO CHANGE		0	0	176
4	2x4, 3F32 w/3 T-8 lamps	88	352	184* <i>Xe1</i>	2x4 Rec 35w LED Troffer	4	18	72	280
9	2x4, 3F32 w/3 T-8 lamps	88	792	106 <i>D/H</i>	2x4 Rec 35w LED Troffer	9	18	162	630
1	2X2 2F17 T8 wall mounted		0	Bath	NO CHANGE		0	0	0
9	2x4, 3F32 w/3 T-8 lamps	88	792	110 <i>D/H</i>	2x4 Rec 35w LED Troffer	9	18	162	630
1	1x4, 1-lamp 4' T8	30	30	Closet	NO CHANGE		0	0	30
9	2x4, 3F32 w/3 T-8 lamps	88	792	111 <i>D/H</i>	2x4 Rec 35w LED Troffer	9	18	162	630
1	2X2 2F17 T8 wall mounted		0	Bath	NO CHANGE		0	0	0
1	1x4, 1-lamp 4' T8	30	30	Closet	NO CHANGE		0	0	30
9	2x4, 3F32 w/3 T-8 lamps	88	792	115 <i>D/H</i>	2x4 Rec 35w LED Troffer	9	25	225	567
1	2X2 2F17 T8 wall mounted		0	bath	NO CHANGE		0	0	0
1	2X2 2F17 T8 wall mounted		0	Womens	NO CHANGE		0	0	0
1	1x8, 4F32 w/4 T-8 lamps	112	112	122	2x4 Rec 45w LED Troffer	1	45	45	67
9	2x4, 3F32 w/3 T-8 lamps	88	792	116 <i>D/H</i>	2x4 Rec 35w LED Troffer	9	18	162	630
1	2X2 2F17 T8 wall mounted		0	Bath	NO CHANGE		0	0	0
1	1x4, 1-lamp 4' T8	30	30	Closet	NO CHANGE		0	0	30
9	2x4, 3F32 w/3 T-8 lamps	88	792	120 <i>D/H</i>	2x4 Rec 35w LED Troffer	9	18	162	630
54	2 F25 ft T8 lamps	50	2,700	Hallway	LED 18W 4' T8 LED TUBE	108	18	1,944	756
9	2x4, 3F32 w/3 T-8 lamps	88	792	105 <i>D/H</i>	2x4 Rec 35w LED Troffer	9	18	162	630
1	2X2 2F17 T8 wall mounted		0		NO CHANGE		0	0	0
9	2x4, 3F32 w/3 T-8 lamps	88	792	101 <i>D/H</i>	2x4 Rec 35w LED Troffer	9	18	162	630
1	1x4, 1-lamp 4' T8	30	30		NO CHANGE		0	0	30
5	2 12w pin base bulbs		0	Stairway	NO CHANGE		0	0	0
9	2x4, 3F32 w/3 T-8 lamps	88	792	206 <i>D/H</i>	2x4 Rec 35w LED Troffer	9	18	162	630
3	2x4, 3F32 w/3 T-8 lamps	88	264	216 <i>*Xe1</i>	2x4 Rec 35w LED Troffer	3	18	54	210



Existing				Location	New Item	Qty	Repl. Watts	Total Watts	Watts Saved
Qty	Equipment	Watts	Total						
9	2x4, 3F32 w/3 T-8 lamps	88	792	210 <i>D/H</i>	2x4 Rec 35w LED Troffer	9	18	162	630
1	2X2 2F17 T8 wall mounted		0	Bath	NO CHANGE		0	0	0
2	1x8, 4F32 w/4 T-8 lamps	112	224	245	2x4 Rec 45w LED Troffer	2	45	90	134
1	2x4, 2-lamp T8 Prz-C-Refl	58	58	244	LED 18W 4' T8 LED TUBE	2	18	36	22
2	2x4, 2-lamp T8 Prz-C-Refl	58	116	247	LED 18W 4' T8 LED TUBE	4	18	72	44
9	2x4, 3F32 w/3 T-8 lamps	88	792	201 <i>D/H</i>	2x4 Rec 35w LED Troffer	9	18	162	630
1	1x4, 1-lamp 4' T8	30	30	Storage	NO CHANGE		0	0	30
9	2x4, 3F32 w/3 T-8 lamps	88	792	205 <i>D/H</i>	2x4 Rec 35w LED Troffer	9	18	162	630
1	2X2 2F17 T8 wall mounted		0		NO CHANGE		0	0	0
24	2x4 4-lamp 40w Pin Base	184	4,416	Cafeteria	2x4 Rec 45w LED Troffer	24	31	744	3,672
9	2x4, 3F32 w/3 T-8 lamps	88	792	211 <i>D/H</i>	2x4 Rec 35w LED Troffer	9	18	162	630
1	2X2 2F17 T8 wall mounted		0	Bath	NO CHANGE		0	0	0
2	2x4, 3F32 w/3 T-8 lamps	88	176	243	NO CHANGE		0	0	176
4	2x4, 3F32 w/3 T-8 lamps	88	352	242 <i>D/H</i>	2x4 Rec 35w LED Troffer	4	18	72	280
9	2x4, 3F32 w/3 T-8 lamps	88	792	215 <i>D/H</i>	2x4 Rec 35w LED Troffer	9	18	162	630
1	2X2 2F17 T8 wall mounted		0	Bath	NO CHANGE		0	0	0
1	1x4, 1-lamp 4' T8	30	30		NO CHANGE		0	0	30
1	2X2 2F17 T8 wall mounted		0	Women	NO CHANGE		0	0	0
1	1x8, 4F32 w/4 T-8 lamps	112	112	Aja rm	2x4 Rec 45w LED Troffer	1	45	45	67
9	2x4, 3F32 w/3 T-8 lamps	88	792	Taylor <i>D/H</i>	2x4 Rec 35w LED Troffer	9	18	162	630
1	2X2 2F17 T8 wall mounted		0	Bath	NO CHANGE		0	0	0
9	2x4, 3F32 w/3 T-8 lamps	88	792	220 <i>D/H</i>	2x4 Rec 35w LED Troffer	9	18	162	630
1	2X2 2F17 T8		0	Bath	NO CHANGE		0	0	0
1	1x4, 1-lamp 4' T8	30	30	Storage	NO CHANGE		0	0	30
2	2 12w pin base bulbs		0	Stairway #2	NO CHANGE		0	0	0
1	2x4, 2-lamp T8 Prz-C-Refl	58	58	Elec Room	NO CHANGE		0	0	58
38	2 F25 4 ft T8 lamps	50	1,900	Hallway	LED 18W 4' T8 LED TUBE	76	18	1,368	532
1	2x4, 2-lamp T8 Prz-C-Refl	58	58	Boiler Room	NO CHANGE		0	0	58
2	1x8, 4F32 w/4 T-8 lamps	112	224	226 <i>*Xe1</i>	2x4 Rec 45w LED Troffer	2	18	36	188
1	2' 2F17 T8 wall mounted		0	Women	NO CHANGE		0	0	0
1	1x8, 4F32 w/4 T-8 lamps	112	112	Store	2x4 Rec 45w LED Troffer	1	45	45	67
2	1x8, 4F32 w/4 T-8 lamps	112	224	Men	2x4 Rec 45w LED Troffer	2	45	90	134
2	1x8, 4F32 w/4 T-8 lamps	112	224	224 <i>*Xe1</i>	2x4 Rec 45w LED Troffer	2	18	36	188
2	2x4, 2-lamp T8 Prz-C-Refl	58	116	Elevator	NO CHANGE		0	0	116
5	2x4, 3F32 w/3 T-8 lamps	88	440	229 <i>D/H</i>	2x4 Rec 35w LED Troffer	5	18	90	350
56	2x4, 2-lamp T8 Prz-C-Refl	58	3,248	Hallway	LED 18W 4' T8 LED TUBE	112	18	2,016	1,232
6	2x4, 3F32 w/3 T-8 lamps	88	528		2x4 Rec 35w LED Troffer	6	35	210	318

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Burr Elementary School

Utility Name

Proposal # 6705

Date Printed: 5/12/15

Client Copy, pg 5

74,306

1,102

18,153

56,153

Non Light Fixture Items: L & R

Total Rebate Amt **51,917.00**



UP TO 60%
ENERGY SAVINGS

The Cobalt Series LED Center Basket Troffer Retrofit Kit family of luminaires encompasses the latest technological advances in the design of LED chips and the light fixtures that house them. The built-in thermal management system ensures the LEDs will always run at the cool temperatures necessary to achieve their full long life potential.

The latest generation of long life and high efficacy LM-80 certified LED chips, together with superior photometric engineering, ensures a durable and rugged luminaire that will operate for many years at far less power input than conventional fluorescent fixtures, without maintenance or the need to ever replace light elements. Each XATC fixture (Cobalt Series) is pre-wired for operation with the optional XCO-100 Occupancy Sensor/Daylight Harvesting Accessory. Operation with this control unit ensures a constant and uniform level of ambient lighting, but only while there is activity in the space. When no one is present, the lighting will automatically be turned off. Xeleum's optional XCV converter allows for standard 0-10 volt dimming.

FEATURES

- Up to 60% savings of lighting energy cost over Conventional fixtures without LEDs and occupancy sensors
- Cool running LEDs and fixtures provide years of maintenance-free operation without ever having to change a bulb
- Utility rebates available in many areas
- More light where you want It
- Attractive modern designs
- No hazardous metals or chemicals
- Bright, glare free illumination
- Dust and insect resistant sealed design
- No flicker or strobing
- Easy installation
- 10-Year limited warranty

APPLICATIONS

- Offices and general lighting
- Government buildings, schools & hospitals
- Retail, grocery stores, restaurants
- T-Grid ceilings



SPECIFICATIONS

POWER FACTOR	> 0.95
CRI	> 80
CEILING TYPE	T Grid 15/16"
DIMMING	Proprietary PWM or Optional 0-10 Volt
MATERIAL	Aluminum / PC / PMMA
COLOR	White Frame & Trim
CERTIFICATION	ETL / FCC / RoHS / DLC
WORKING TEMP.	- 4° F to + 110° F
STORAGE TEMP.	- 4° F to + 175° F
OPERATING LIFE	Designed for > 65,000 Hours of Operation
VOLTAGE	120-277 VAC (50/60 Hz)

OPTIONS

MOUNTING OPTIONS:

Suspended – Our Troffers have mounting holes in the frame which allow for their suspension with cable or chain. Surface Mount Kits (SMK) and Drywall Kits available. Contact your local American Solar & Alternative Energy representative for more information.

DIMMING OPTIONS:

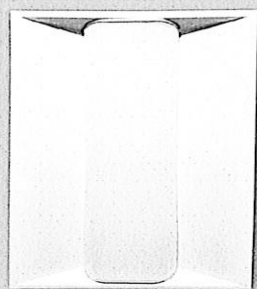
XCO-100 – This is a proprietary package that plugs seamlessly into the back of our Troffers linking up to six fixtures into a group that operates like a single unit. This system includes our ceiling mounted Motion/Daylight Harvesting sensor to maximize energy savings.

XCV-100 – This system goes between the Troffer and the incoming (dimnable) power line, and allows for standard 0-10 Volt dimming.

PRODUCT CONFIGURATOR

PRODUCT CODE	STYLE	SIZE	-	POWER	CCT	VOLTAGE
ASP-XA	TCR=Troffer Center Basket Retrofit	22 = 2' x 2' 24 = 2' x 4'	M H		30K = 3000° K 35K = 3500° K 40K = 4000° K 50K = 4500° K	U = 120-277 VAC C = 300-500 VAC

2' x 2'



MODEL	COLOR TEMP	POWER	TYPICAL LIGHT OUTPUT
ASP-XATRC22-M30KU	3000° K	23.9 W	2,296 lm
ASP-XATRC22-M35KU	3500° K	24.6 W	2,405 lm
ASP-XATRC22-M40KU	4000° K	24.7 W	2,505 lm
ASP-XATRC22-M50KU	5000° K	25.0 W	2,597 lm
ASP-XATRC22-H30KU	3000° K	31.1 W	3,056 lm
ASP-XATRC22-H35KU	3500° K	32.0 W	3,085 lm
ASP-XATRC22-H40KU	4000° K	31.4 W	3,150 lm
ASP-XATRC22-H50KU	5000° K	30.3 W	3,312 lm

Product Weight: 8.8 lbs (4.0 kg) Product Dimensions (LxWxH): 23 3/4" X 23 3/4" X 4 3/4"
 Packaged Weight: 11.8 lbs (5.3 kg) Packaged Dimensions (LxWxH): 26 1/2" X 26 1/2" X 6 3/4"

2' x 4'



MODEL	COLOR TEMP	POWER (incl. driver)	TYPICAL LIGHT OUTPUT
ASP-XATRC24-M30KU	3000° K	35.4 W	3,447 lm
ASP-XATRC24-M35KU	3500° K	35.3 W	3,477 lm
ASP-XATRC24-M40KU	4000° K	35.5 W	3,605 lm
ASP-XATRC24-M50KU	5000° K	35.7 W	3,722 lm
ASP-XATRC24-H30KU	3000° K	45.0 W	4,553 lm
ASP-XATRC24-H35KU	3500° K	45.0 W	4,513 lm
ASP-XATRC24-H40KU	4000° K	45.6 W	4,713 lm
ASP-XATRC24-H50KU	5000° K	45.5 W	4,895 lm

Product Weight: 15.5 lbs (7.0 kg) Product Dimensions (LxWxH): 47 3/4" X 23 3/4" X 4 3/4"
 Packaged Weight: 20.0 lbs (9.0 kg) Packaged Dimensions (LxWxH): 50 1/2" X 26 1/2" X 6 3/4"



ENERGY OPPORTUNITIES

1-877-WISE USE

Municipal Energy Opportunities Standard Agreement

This Agreement is entered into by and between The United Illuminating Company ("UI") and

Town Of Fairfield - Dept 001

("Customer"), pertaining to the building to be retrofitted at

FAIRFIELD WOODS RD 1115 ; FAIRFIELD, CT

(the "Facility"), MEO Project # Nq5x, by

NXGEN, LLC

(the "Installing Vendor"). The Effective Date of this

Agreement is the date that this Agreement is signed by both Customer and UI, subject to Section 5(b)(i) hereof.

BASIC UNDERSTANDINGS

UI has a conservation program called Energy Opportunities which is designed for projects which "retrofit" existing systems with energy efficient alternatives. UI offers to pay incentives to eligible Customers who retrofit existing systems with energy efficient measures (each an "Individual Measure" and collectively, the "Measures") in the Customers' facilities. This Agreement provides the terms and conditions for payment of Standard Incentives and any applicable Bonus Incentives by UI to a Customer under the Energy Opportunities program. Customer expressly represents and warrants that the execution, delivery and performance by Customer of this Agreement are within such Customer's powers and have been duly authorized by all necessary action on the part of the Municipality (or any other person or entity, as applicable). This Agreement constitutes a valid and binding agreement of the Customer, enforceable against such Customer in accordance with its terms. Customer further acknowledges and agrees that it has selected the Installing Vendor and has and will continue to be solely responsible for such selection, which selection was in accordance with any and all legal, governmental or regulatory rules and requirements (whether federal, state, municipal or otherwise) applicable to Customer. Any payments (if any) made by UI to Installing Vendor in connection with Installing Vendor's installation of ECMs hereunder at the Facility and pursuant to Customer's direction as provided for herein, are made by UI solely in its role as administrator of conservation and load management programs approved by the Connecticut Public Utilities Regulatory Authority. UI assumes no responsibility or liability whatsoever with respect to Customer's selection of the Installing Vendor, the Installing Vendor's installation of the ECMs for Customer, and/or any agreement that Installing Vendor and Customer may have entered into in connection with such installation.

1. CUSTOMER ELIGIBILITY

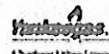
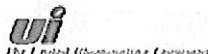
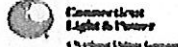
Any municipality that is a retail end use UI customer is eligible to participate in the Energy Opportunities program.

2. INCENTIVES

- a. Subject to the terms and conditions contained herein, UI will pay incentives to Customers for the installation of Energy Conservation Measures (ECMs) as specified in the attached Schedule A, incorporated herein by reference.
- b. ECMs are those conservation measures that are consistent with UI's desire to achieve energy conservation and load management, and that are approved by UI in advance and in its sole discretion as set forth herein.
- c. Customer understands and agrees that incentive schedules for which Customer may be eligible vary based upon the classification of customers.
- d. ECMs are not eligible for incentives from the Energy Opportunities program if the Customer has received incentives for that specific ECM under any other UI incentive program.

3. PRE-APPROVAL & PRE-INSTALLATION SURVEY

- a. Among other conditions for receipt of incentives hereunder, UI is not bound to pay any incentive to Customer hereunder unless UI pre-approves in its sole discretion each ECM that has been proposed by the Customer and/or (as determined by UI) completes a satisfactory pre-installation survey of the Customer's Facility.
- b. UI reserves the right, in its sole discretion, to approve or dis-approve any proposed ECM. Any failure to approve any and all ECMs shall not under any circumstances constitute approval by UI of such ECMs.
- c. Among other conditions for receipt of incentives hereunder, UI is not bound to pay any incentives unless the Customer commits to installing the ECM(s) evidenced by its execution and delivery of this Agreement, including Schedule A and complying with all of the terms and conditions contained in this Agreement including but not limited to the timeframe described in Paragraph 5, section b.



ENERGY OPPORTUNITIES

1-877-WISE USE

Municipal Energy Opportunities Standard Agreement

4. CUSTOMER APPLICATION & ANALYSIS

- a. The Customer agrees to comply with the steps outlined in Paragraph 5, section b.
- b. In addition to the execution and delivery of this Agreement, including Schedule A, UI may in its sole discretion, require Customer to perform or cause to be performed a thorough analysis of the demand and energy reduction potential and life expectancy of the proposed ECMs ("Analysis"). In some cases, UI may require, in its sole discretion, that a licensed or certified energy professional or engineer prepare this Analysis. Customer shall provide to UI specifications, engineering data or other reasonable information necessary for the completion of such Analysis of the proposed ECM.
- c. UI will review the Customer's Application and Analysis (if applicable) to determine the potential for reducing energy consumption at the Facility via the ECMs. UI reserves the right, in its sole discretion to accept, reject, or modify any calculations set forth in the Application and Analysis (if applicable) based on UI's own analysis of the ECMs, including but not limited to the incremental cost of energy and demand savings, actual energy savings, life expectancy of the ECM, and the cost of the ECM.
- d. UI reserves the right to approve only those site-specific ECMs that UI believes have cost effective energy reduction potential. In any case, UI reserves sole discretion to approve or disapprove each proposed ECM in its sole discretion.

5. CANCELLATION

- a. Customer may cancel this Agreement at any time by providing UI with written notice of the same.
- b. UI may cancel this Agreement immediately without notice to the Customer if any of the following conditions exist:
 - i. the Customer fails to sign the Standard Agreement and Schedule A within 30 Business days of UI's approval date. For the sake of clarity, any Standard Agreement signed by Customer after such 30 Business Days shall automatically be void and of no force and effect;
 - ii. the Customer fails to initiate installation or construction of the project within 60 Business days of UI's approval date;
 - iii. the Customer has not submitted to UI a written explanation, acceptable to UI in its sole discretion outlining the reasons why the initiation of the construction process has not begun within 60 Business Days of the approval date. These situations will be subject to UI review on an individual basis;
 - iv. the Customer fails to complete the installation of the ECMs within 10 months of UI's approval date;
 - v. the Customer has not submitted an acceptable written explanation outlining the reasons why the construction process has not been completed within 10 months of the approval date. These situations will be subject to UI review on an individual basis.
- c. Upon cancellation of this Agreement by either Party, Customer will reimburse UI within 30 Business Days for any and all payments made by UI to Customer under this Agreement.
- d. If Customer does not install all of the ECMs listed in Schedule A, UI may, in its sole discretion, adjust the incentives for which the Customer is eligible according to the criteria and participation requirements of the Energy Opportunities program.

6. POST-INSTALLATION VERIFICATION

- a. UI will pay incentives to Customer only after UI has performed to its sole satisfaction a post-installation inspection of the Facility and the ECMs. In addition to the foregoing, no incentive payment shall be made by UI to Customer or Installing Vendor (as the case may be) until Customer has executed an acknowledgement in the form attached hereto as Exhibit 2.
- b. If as a result of UI's post-installation inspection, UI determines that the ECMs installed at the Facility were not installed in a manner that is consistent with the purpose of achieving energy savings, the Customer shall make modifications as determined to be necessary by UI in order to ensure achievement of energy savings. A failure by Customer to promptly perform such modifications will result in Customer forfeiture of any incentives for which it is eligible.
- c. If as a result of UI's post-installation inspection, UI determines that the operation of any equipment installed in connection with Customer's participation in the Energy Opportunities program is not consistent with generally accepted industry standards and practices, including, where applicable, state or federal building code mandates, environmental regulations, and current standards published or otherwise recognized by the American Society of Heating, Refrigeration, and Air Conditioning Engineers ("ASHRAE") for the operation of Heating, Ventilation, and Air Conditioning ("HVAC") units, Customer shall make modifications as determined to be necessary by UI to ensure compliance with such applicable standard(s). A failure by Customer to promptly perform such modifications will result in Customer forfeiture of any incentives for which it is eligible.

7. MONITORING & VERIFICATION

- a. UI reserves the right to continue to monitor any or all proposed and installed ECMs for the purpose of determining the actual value of energy reduction.



Empowering you to make smart energy choices



Connecticut
Light & Power
A National Utility Company



The National Utility Innovations Institute



A National Utility Company

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ENERGY OPPORTUNITIES

1-877-WISE USE

Municipal Energy Opportunities Standard Agreement

- b. Customer agrees to grant UI access at all reasonable times to the Facility for the purpose of examining and monitoring proposed and installed ECMs. The results of this monitoring will not affect any payments already received by Customer hereunder, except for such payments that are required to be reimbursed by Customer pursuant to the terms and conditions contained in this Agreement.
- c. Customer understands and agrees that UI reserves the right to decrease any unpaid Incentive amounts for which Customer is eligible hereunder if, based on the results of UI's on-site monitoring and verification, UI determines in its sole discretion that less than the proposed ECM savings are likely to result via the ECMs.

8. INCENTIVE AMOUNTS

- a. Any Incentive amounts requested by Customer in connection with this program may be reduced by UI in its sole discretion and only Incentive levels approved by UI in connection with this Agreement are eligible to be earned by Customer.
- b. UI reserves the right to modify any program Incentives for which Customer is eligible hereunder and the Incentive structure at anytime and without any prior notices to Customer.
- c. In the event that, following execution and delivery of this Agreement, the program is modified or cancelled for any reason, this Agreement will continue in effect pursuant of all of its terms and conditions.
- d. The dollar amount of the Incentive available to Customer pursuant to this Agreement is calculated by UI based on UI's understanding of the total project cost of the installation of the ECMs at Customer's Facility ("UI Total Project Cost") as supplied by Customer or the installing Vendor. In the event that the actual project cost is lower than the UI Total Project Cost for any reason, including but not limited to the availability of any and all state, federal or local tax rebates that may be applicable to the Customer's Installation of the ECMs at the Facility, and/or any and all rebates, Incentives, credits or adjustments of any nature that Installing Vendor provides to Customer and which lowers the UI Total Project Cost, then Customer shall promptly provide UI with written notice of the same and UI reserves the right, in its sole discretion, to recalculate the dollar amount of the Incentive available to Customer under this Agreement based on the actual project costs and such recalculated Incentive amount shall be the Incentive available to Customer under this Agreement. In the event that UI has already provided Customer with an Incentive payment based on the UI Total Project Cost prior to UI's receipt of notice from Customer of an actual project cost that is lower than the UI Total Project Cost, UI may require Customer to refund the difference between the Incentive paid by UI to Customer and the Incentive that results from UI's Incentive recalculation based on the actual project cost. Any such refund shall be made by Customer within thirty (30) days after written demand of the same from UI.

9. COMPREHENSIVE PROJECTS

- a. Comprehensive projects may be eligible for bonus incentives only if specific funding is available and approved.
- b. Comprehensive projects may include energy savings from other fuel sources. However the value of the Incentive will be based entirely on the electric energy savings components.
- c. Projects are considered comprehensive if they consist of two (2) or more end uses and at least one (1) measure per end use. Projects consisting of multiple measures per end use are eligible provided that the project consists of at least 2 end uses and meet the criteria in Paragraph 9 (d, e) below.
- d. No one end use can have 85% or more of the value of the project's energy savings or peak summer demand reduction.
- e. The remaining enduse(s) must account for at least 15% of the value of the project's energy savings or peak summer demand reduction (based on the cumulative total of the remaining enduse(s)).
- f. Each Measure will be reviewed independently to determine the applicability of the EO program incentives based on the Energy Opportunities Incentive guidelines.
- g. If the project is modified to where the project does not meet the comprehensive criteria then the Incentive is calculated on the individual merits of the Measures due to scope changes and/or measures.
- h. The project must have all Measures installed within a reasonable time frame to receive the comprehensive Incentive. A reasonable timeframe is defined in Paragraph 5(b) above. UI reserves the right to modify the definition of a "reasonable time frame" based on the project. In the event, the scope of the project changes, the Incentive amount will be calculated on the merits of the remaining individual measures.
- i. Projects will be reviewed on a case-by-case basis



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The United Illuminating Company



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Municipal Energy Opportunities Standard Agreement

10. MULTIPLE FUEL or NON-ELECTRIC ECMs

UI reserves the right in its sole discretion (but in no event is obligated) to pay incentives for any energy saving non-electric ECM.

11. ECM INSTALLATION COST

- a. Customer shall supply UI with copies of all appropriate paperwork that documents that the construction or installation process has been initiated (such as a purchase order, bid document, contract etc. and any other documentation as requested by UI).
- b. Customer shall supply UI with copies of all paid invoices (including all materials, labor, and equipment discounts) reflecting the actual costs of design engineering, purchasing, and installing the ECMs, along with costs for demolition and disposal of materials. UI may also request and Customer shall supply UI with other reasonable documentation or verification of the Customer's actual cost for purchasing and installing the ECM. Incentives are applicable to and available with respect to incentives for ECM installation costs only those ECMs that are actually installed and Customer is eligible for incentives for ECM installation costs only to the extent that the costs are deemed reasonable by UI in its sole discretion. Costs for financing, extra equipment, spare parts, inventoried items, painting, and any other non-installed materials are not eligible for UI reimbursement under this Agreement.

12. PAYMENT

- a. Incentive payments will be made by UI within 60 days after UI has completed a post-installation verification of ECM installations and the actual costs thereof to its sole satisfaction. UI may also arrange with Customer to make incentive payments in installments. In addition to the foregoing, no incentive payment shall be made by UI to Customer or Installing Vendor (as the case may be) until Customer has executed an acknowledgement in the form attached hereto as Exhibit 2.
- b. If Customer has an established UI account, it may request that the incentive amount applicable to it under this Agreement be paid in the form of a credit to the Customer's electric bill by designating the method of payment on the Schedule A at the time of entering into this Agreement.
- c. The Customer understands and acknowledges that UI shall pay the incentives from the Energy Conservation and Load Management Fund ("C&LM Fund"). In the event that all or any part of UI's C&LM Fund is designated by legislative or regulatory action for purposes other than implementation of UI's C&LM programs, and UI determines that the C&LM Fund is insufficient to cover the cost of such programs, UI shall have no obligation to pay any incentives hereunder and shall have no further liability to the customer. Customer shall not hold UI liable in any way and shall hereby hold UI harmless from and against any and all liabilities, costs or damages incurred by Customer in the event of a program funding reduction or elimination, including but not limited to the insufficiency of the C&LM Fund to cover the cost of C&LM programs as determined by UI.

13. PERFORMANCE CONTRACTING

If the ECMs are being installed by a third party under a performance contract arrangement, UI reserves the right to determine the cost of purchasing and installing the ECMs as the costs actually incurred by the third party or in UI's sole discretion based upon UI's experiences with similar ECMs in other Customers' facilities.

14. FINANCING OPTION

- a. Third party financing for the ECMs to be installed at Customer's Facility pursuant to this Agreement may be available to Customer from a UI designated third party financing provider ("TPFP") provided that Customer's project meets (among other requirements) the following eligibility requirements:
 - (i) The project has a Simple Payback Period greater than 1.5 years but less than 7 years. Simple Payback Period means the total cost of the project divided by the estimated annual energy savings of the project through its first year of operation.
 - (ii) The project is eligible for inclusion in UI's Energy Opportunities program.
 - (iii) The project does not participate in other financing options under Connecticut Energy Efficiency Funds (CEEFF) programs administered by UI, specifically the Municipal loan with on-bill repayment.
 - (iv) The project is not a federal government or agency project.
 - (v) The project includes only equipment retrofits (i.e., it does not involve new construction or major renovation).
 - (vi) The Customer is an existing business which has been in operation for three (3) years and qualifies through the TPFP's business credit review
- b. Customer acknowledges and agrees that, in addition to the foregoing project eligibility requirements, Customer must apply to the TPFP in order to secure financing by the TPFP for its project (as described herein). The decision by the TPFP to provide (or not provide) financing to Customer in connection with its project is at the sole discretion of the TPFP and Customer acknowledges and agrees that UI is not responsible in any way for any decision by the TPFP to provide, or not to provide,

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financing for Customer's project. In addition to the foregoing, any and all financing transactions as between the TFPF and Customer in connection with the project are solely as between such parties. UI is not responsible in any way for any and all decisions, acts or omissions of the TFPF in connection with any and all financing transactions as between the TFPF and Customer in connection with Customer's project. Customer hereby agrees to indemnify, defend, and hold harmless, UI, from any and all claims, actions, costs, expense, damages, and liabilities, including reasonable attorney's fees, resulting from or arising out of Customer's decision to seek financing for its project from the TFPF, including but not limited to any and all action or inaction of the TFPF related to the same.

- c. In the event that Customer receives financing from the TFPF as contemplated and provided for herein, UI may, in its sole discretion, provide an "interest rate buy down" in connection with such TFPF financing. An "interest rate buy down" means an upfront payment provided by UI (through use of CEEF funds) to the TFPF in order to lower the interest rate paid by Customer to the TFPF over time. An interest rate buy down is only available to Customer in connection with TFPF loans that are no less than \$2,000 and no greater than \$100,000. In the event that Customer (i) is eligible for and receives financing for its project from the TFPF pursuant to the TFPF's EO financing program and (ii) UI determines, in its sole discretion, that it will provide an interest rate buy down in connection with such TFPF financing for Customer's project, then Customer will receive 100% of the incentive calculated by UI for the Customer's project and a partial interest buy down or subsidy, which in turn determines the available interest for the project either 4.99%, 2.99%, or 0% loans respectively. The maximum term of TFPF loans for which Customer receives an interest rate buy down from UI shall be (i) the Net Simple Payback Period for the project plus one year or (ii) five years, whichever is less. Net Simple Payback Period is defined as (A) the total cost of Customer's project that is the subject of this Agreement minus the incentive calculated by UI for the project divided by (B) the estimated energy savings expected to be experienced by Customer as a result of the project (as calculated by UI).
- d. Customer may seek additional financing from the TFPF, typically up to a total amount of \$1,000,000. Any projects that exceed \$1,000,000 would be reviewed on a case by case basis. However, financed amounts greater than \$100,000 are not eligible for any interest rate buy down from the CEEF funds. Any financed amounts greater than \$100,000 will be subject to current market interest rates and will be determined by the TFPF.
- e. Customer may seek financing of its project from any third party financing entity provided, however, any interest buy down that the CEEF Fund and UI may provide with respect to Customer's project, if at all, shall only be applicable with respect to TFPF financing pursuant to the terms and conditions provided for herein.

15. ECM MAINTENANCE

- a. In order to maintain the estimated energy savings benefit derived by UI for ten (10) years from the date of installation of the applicable ECMs, Customer agrees to repair or replace the ECMs periodically, using energy saving equipment similar or superior to the equipment that was installed originally. If Customer's performance of this provision proves to be impossible or impracticable, Customer shall, within ten (10) days of its determination of its inability to perform, notify UI promptly of its inability to perform and in such an event, UI may, at its sole and full discretion, require Customer to promptly reimburse UI for a prorated portion of all incentives and installation cost reimbursement paid under this Agreement subject to interest charges set forth in Paragraph 15(c) below.
- b. If UI in its sole discretion deems it appropriate, to ensure the efficiency gained through incentives paid by in connection with this Agreement, UI may require the Customer to maintain a service contract with a vendor acceptable to UI for the term of this Agreement, or another term determined by UI to be applicable to the specific ECM installed.
- c. Neither Customer nor its agents, contractors, or subcontractors shall knowingly circumvent the net energy performance of ECMs or related systems installed pursuant to this Agreement. In the event of a breach of this provision, UI will require Customer to reimburse in full all of the incentives and installation cost reimbursement paid for these ECMs. All Customer reimbursements to UI will include interest accrued from the date of receipt of the incentive by the Customer, at the annual rate of eight percent (8%).

16. LIMITATION OF LIABILITY

UI shall not be liable to Customer for any damages in contract or tort or otherwise including negligence caused by any activities in connection with this Agreement or in connection with the retrofitting of the Facility, including without limitation the actions or omissions of any design professional or any employee, agent, contractor, subcontractor or consultant retained by UI. UI's liability under this Agreement shall be limited to paying the incentives specified for the ECMs but only as and if such incentives become payable to Customer and only to the extent that such incentives are not subject to repayment as provided for in this Agreement. In no case shall UI be liable to Customer for any special, indirect, consequential, incidental, punitive or exemplary damages of any kind, including but not limited to loss of use, lost profits, out of pocket expenses by statute, tort or contract, in equity under any indemnity provision or otherwise.



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17. INDEMNIFICATION

Customer agrees to indemnify, defend and hold harmless, the UI, from any and all claims, actions, costs, expenses, damages, and liabilities including reasonable attorney's fees, resulting, from death or bodily injury or damage to real or personal property, to the extent caused by the negligence or misconduct of Customer's employees or other authorized agents in connection with Customer's activities within the scope of this Agreement, including, without limitation, claims arising from Customer's installation and/or maintenance of HVAC units in compliance with current standards for the performance of such units published or recognized by ASHRAE. Customer's duty to indemnify shall continue in full force and effect, notwithstanding the expiration or early termination hereof, with respect to any claims based on facts or conditions that occurred prior to the expiration or termination of this Agreement.

18. NO WARRANTIES

- a. Customer acknowledges and agrees that neither UI nor any of UI's employees or consultants are responsible for assuring that the design, analysis, engineering, and retrofitting of the Facility or installation of any or all of the individual ECMs or equipment is proper or complies with any particular laws, codes, or industry standards, including, without limitation, current standards published or otherwise recognized by ASHRAE for HVAC units.
- b. Customer understands and agrees that UI does not represent, warrant, or guarantee the product or service of any particular vendor, manufacturer, contractor, or subcontractor. Customer further understands and agrees that UI does not represent, warrant or guarantee the safety of the ECMs or that the installation of any ECMs pursuant to this Agreement will result in any level of energy savings or result in any measurable energy related benefit.

19. NO TAX LIABILITY

UI is not responsible for any tax liability imposed on the Customer or the Customer's authorized recipient as a result of the incentive payment.

20. LIMITED SCOPE of REVIEW

UI's scope of review for purposes of this Agreement is limited to determining if the design and installation of the ECMs have met the program conditions. UI does not include any kind of safety or performance review of any equipment installed or serviced in connection with this Agreement or any planned or installed ECMs, including, without limitation, any compliance by HVAC units with current standards published or otherwise recognized by ASHRAE.

21. OBLIGATION TO INSTALL

This Agreement does not obligate Customer to install any of the ECMs that have been approved by UI. However, if Customer, subsequent to such approval, elects to install the ECMs, the terms and conditions of this Agreement shall govern the payment of incentives and the maintenance of the ECMs at the Facility.

22. PROGRAM CHANGES

UI reserves the right to cancel or change the Energy Opportunities program at any time without prior notice to Customer. Except as otherwise provided in this Agreement, all fully executed agreements that are in compliance with the terms and conditions contained herein will be processed to completion under the terms and conditions of the Energy Opportunities program in effect on the Effective Date.

23. PAYMENTS ASSIGNED TO CONTRACTORS

- a. UI Customers may designate in writing the Customer's Installing Vendor as the sole recipient of any incentives and/or installation cost reimbursements owed to Customer under this program. Customer's written designation shall also state that Customer acknowledges and agrees that it has no further claim or right, title or interest in and to any such incentives and / or installation reimbursements.
- b. In addition to the requirements set forth in Paragraph 23 (a) above, Customer must request the change in incentive / installation cost recipient by signing the designated area on Schedule A.
- c. In addition to the requirements set forth in Paragraph 23 a and b) above, if Customer assigns the incentives and/or installation cost reimbursements to the Installing Vendor, Customer must supply or cause its designated recipient to supply UI with a Letter of Acknowledgement and a completed W-9 containing designated recipient's Federal Tax Identification number.
- d. In addition to the foregoing, prior to the release by UI of any incentive/installation cost reimbursement by UI to the Installing Vendor, Installing Vendor shall execute an acknowledgment in the form attached hereto as Exhibit 1 and Customer shall cause Installing Vendor to execute the same.

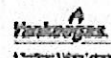
24. PUBLICITY OF CUSTOMER PARTICIPATION



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UI may, with Customer's consent, publicize Customer's participation in the program, the results of Customer's participation in the program, the value of incentives paid to Customer by UI under the program, and any other information relating to or in connection with Customer's participation in the program.

25. BALLAST & LAMP DISPOSAL

Customer agrees to comply with all laws and regulations promulgated by the State of CT Department of Environmental Protection and all other applicable laws, rules and regulations relating to the proper disposal of fluorescent lamps and PCB ballasts. The costs incurred by Customer in connection with the disposal of fluorescent lamps and PCB ballasts may be included in Customer's calculation of costs for installing the ECMs. Customer must provide to UI documentation acceptable to UI that verifies the proper disposal of all hazardous materials.

26. EXISTING and NEW SELF-GENERATION

The incentive amount paid by UI to Customer under this Agreement will be determined by UI based on UI's evaluation of the net benefit of the ECMs for which Customer is receiving an incentive to UI's customers as a whole ("Net Customer Benefit"). Accordingly, UI will establish and reserves the right to reduce the incentive amount in order to reflect the impact of Customer's existing self-generation or new self-generation installed after the Effective Date hereof (as the case may be) to reflect the impact of such self-generation on UI's Net Customer Benefit calculation. UI may require Customer to refund to UI all or a portion of the incentive amount paid to reflect the reduced Net Customer Benefit. Any interconnection of new self-generation to the utility grid must comply with UI's then current policies and standards governing such interconnections.

27. FORWARD CAPACITY MARKET PAYMENTS / CREDITS

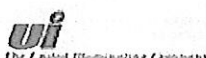
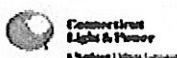
By signing this document and as a condition to receiving an incentive pursuant to this program, Customer hereby assigns to UI any and all payments, benefits and/or credits in connection with the Forward Capacity Market or any currently existing or successor or replacement markets, (including, but not limited to, any and all "LICAP", "ICAP", transitional credits or payments or any and all other capacity-related credits, payments and/or benefits for which Customer is eligible) and that are associated with or applicable to Customer's participation in the Energy Opportunities Program. Customer hereby assigns to either UI all of its right, title and interest in and to any and all such capacity payments, credits and/or benefits and shall take any and all action, including executing and delivering any and all documents and/or instruments, as requested by UI to evidence the same. 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.

28. CLASS III CONSERVATION CREDITS

In accordance with the Department of Public Utility Control's ("DPUC's" now the Public Utilities Regulatory Authority or "PURA") September 29, 2008 decision in Docket No. 05-07-19RE01, DPUC Proceeding to Develop a New Distributed Resources Portfolio Standard (Class III) – 2007 Revisions (as supplemented by the DPUC's February 11, 2010 decision in Docket No. 05-07-19RE01), Customer is not eligible to receive or retain any Class III conservation credits in connection with the Energy Opportunities Program and Customer hereby acknowledges and agrees the same. Customer further acknowledges and agrees that such credits shall be retained by UI for the benefit of their customers through the Connecticut Energy Efficiency Fund. In the event that the DPUC amends or modifies the allocation of Class III conservation credits as reflected in its September 29, 2008 decision, then the allocation of such credits utilized by UI shall be the allocation in effect (per the applicable PURA decision) on the Effective Date.

29. MISCELLANEOUS

- a. The term of this Municipal Energy Opportunities Agreement will commence as of the Effective Date and continue for ten (10) years from date of the first payment made by UI to Customer pursuant to Paragraph 11 above unless sooner terminated as provided for herein.
- b. Customer understands that UI is willing to pay the Energy Opportunities incentives based on the long-term value of the energy reductions to UI.
- c. If at any time during the term of this Agreement, and during which time the Facility is occupied by the Customer, or any affiliate of the Customer, the operation of the Facility is modified so as to diminish the value of the energy efficient measures, UI may require reimbursement by Customer of all or a prorated percentage of the Energy Opportunities incentives and installation cost reimbursements paid by UI to Customer hereunder.
- d. Where Customer has installed or modified any HVAC unit in connection with Customer's participation in the Energy Opportunities Program, Customer shall, prior to UI's payment of an incentive, provide UI with a written statement confirming that such HVAC unit meets or exceeds the current standards for the operation of such HVAC unit as recognized by ASHRAE. Customer's failure to provide such written confirmation shall result in UI's withholding of any and all incentives for which Customer is eligible for hereunder until such failure is corrected.



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- e. During the term of this Agreement, Customer will require any successor to its interest in the Facility during the term of this Agreement (whether direct or indirect, by sale of the Facility to a third party, by expiration or termination of Customer's lease of the Facility, or by purchase, merger or consolidation of Customer or all or substantially all of its assets by with or into a third party) by an agreement in form and substance satisfactory to UI, to assume and agree expressly to be bound by the provisions of this Agreement. Failure of Customer to obtain such agreement by the effectiveness of any such succession shall be a breach of this Agreement and shall entitle UI to reimbursement for all or a prorated percentage of the incentives paid by UI to the Customer under this Agreement.
- f. If either UI or Customer desires to modify the content of this Agreement, the modification must be in writing and signed by an authorized representative of each party in order for the modification to be enforceable against that party.
- g. Customer may not assign this Agreement without the written consent of UI. This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, executors, personal representatives, successors and assigns.
- h. Any waiver of any breach of any provision of this Agreement shall not be a waiver of any subsequent breach of the same or any other provisions of this Agreement.
- i. All notices shall be in writing and delivered personally or by overnight courier to the addresses of the parties set forth at the beginning of this Agreement. Any such notice shall be deemed given on the date delivered.
- j. This Agreement shall be governed and construed in accordance with the laws of the State of Connecticut without regard to its conflicts of laws and principles.
- k. All requirements, terms, conditions and provisions of this Agreement which by their nature are incapable of being fully performed within the period of performance hereof shall survive cancellation, termination or expiration of this Agreement, including but not limited to any and all reimbursement obligations of Customer hereunder.
- l. The relationship of the parties is that of independent contractors. None of the provisions of this Agreement is intended to create nor will be construed to create an agency, partnership or employment relationship between or among the parties. No party or any of its officers, members, or employees, will be deemed to be the agent, employee or representative of another party.
- m. This Agreement, including all schedules attached hereto, forms the entire agreement between the parties and supersedes all other communications and representations related to the subject matter hereof.
- n. A "Business Day" as used in this Agreement is a day for which commercial banks are open for business in Connecticut

In order to evidence its agreement to the above terms, each party has signed or caused an authorized representative to sign this Agreement on the date(s) specified below.

CUSTOMER:

By: John Muro
(print)
Name: X
(sign)

Title: President Date: 5/13/2015

THE UNITED ILLUMINATING COMPANY:

By: Gary Pattavina
Title: Energy Engineer Date: 05/13/2015

By: [Signature]
Title: Manager, C&E Engineering Date: 5/13/15



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Connecticut Light & Power
A Northern Utilities Company



The United Illuminating Company



A Ventec Systems Company

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Municipal Energy Opportunities Standard Agreement

EXHIBIT 1

AGREEMENT REGARDING Town Of Fairfield - Dept 001 MUNICIPAL ENERGY OPPORTUNITIES STANDARD AGREEMENT

This Agreement regarding Town Of Fairfield - Dept 001 Municipal Energy Opportunities Standard Agreement Project #Nq5x ("Agreement") is entered into this 13 day of May, 2015 ("Effective Date") by and among The United Illuminating Company ("UI"), and NXEGEN, LLC.

WITNESSETH:

WHEREAS, the Town Of Fairfield - Dept 001 ("Customer") entered into a certain Municipal Energy Opportunities Standard Agreement with UI with an effective date of 05/13/2015 ("MEO Agreement"), which MEO Agreement is attached hereto as Exhibit 1 and incorporated herein by reference; and

WHEREAS, the MEO Agreement governs the Customer's participation in the Municipal Energy Opportunities program ("Program") and certain energy efficient retrofits ("Retrofits") to a certain building located at FAIRFIELD WOODS RD 1115 ; FAIRFIELD, CT (the "Facility" as defined in the MEO Agreement) to be performed by NXEGEN, LLC (or "Installing Vendor" as defined in the Agreement); and

WHEREAS, the MEO Agreement (along with its attachments and exhibits including a Financial Agreement Addendum) sets forth (i) a total project cost of \$ 34,902.00 ("Total Project Cost"), (ii) an incentive of \$ 11,141.00 ("Incentive") and (iii) a balance of \$ 23,761.00 ("Balance"); and

WHEREAS, pursuant to the MEO Agreement, the Balance is to be repaid by Customer via monthly payments of \$ 495.03 on Customer's UI electric service bills for a period of Forty Eight (48) months; and

WHEREAS, the Program and MEO Agreement contemplates that the Customer will (i) receive a payment from UI in an amount equal to the Total Project Cost (ii) pay the Installing Vendor the Total Project Cost and (iii) make the monthly payments as set forth in the MEO Agreement until the Balance is paid in full; and

WHEREAS, the Customer is solely responsible for securing an installing vendor and paying the Installing Vendor in connection with its Program project; and

WHEREAS, the Customer has requested that UI pay the Total Project Cost directly to the Installing Vendor.

NOW, THEREFORE, in consideration of the premises and the mutual covenants contained herein, Customer, UI and Installing Vendor agree as follows:

1. Payment of Total Project Cost. Subject to the terms and conditions contained in this letter agreement, UI agrees to pay the Total Project Cost directly to the Installing Vendor.
2. Payment of Balance. Customer agrees to pay to UI an amount equal to the Balance, which Balance will be paid to UI monthly as part of Customer's UI electric service bill over a period of Forty Eight (48) and in monthly payment amounts of \$ 495.03.

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Municipal Energy Opportunities Standard Agreement

3. **Relationship of Parties.** The Parties acknowledge and agree that (i) Customer has contracted Installing Vendor to perform the energy efficient retrofits, (ii) Installing Vendor is solely responsible for the installation of the energy retrofits at the Facility, (iii) in connection with the Program, the MEO Agreement, and this Agreement, UI's sole responsibility is as an administrator of the Connecticut Energy Efficiency Fund, (iv) neither Customer nor Installing Vendor shall hold UI responsible in any way for the Retrofits at the Facility in connection with the Program and MEO Agreement, including but not limited to their installation, operation and maintenance, and (v) Installing Vendor agrees to indemnify, defend and hold UI, its affiliates, successors, assignees and each of its and their shareholders, directors, officers, employees and agents harmless from and against any and all suits, claims, and proceedings resulting in liabilities, damages, costs, losses and expenses, including court costs and reasonable attorneys' fees, which arise out of or relate to the Installing Vendor's installation of the Retrofits at the Facility.

4. **MEO Agreement.** Except as expressly modified herein, all of the terms and conditions contained in the MEO Agreement remain in full force and effect.

IN WITNESS WHEREOF, UI, Customer and Installing Vendor have each caused this Agreement to be executed in its name by one of its officers thereunto duly authorized as of the Effective Date.

CUSTOMER:

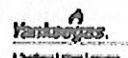
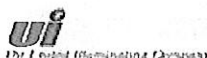
By: _____
(print) _____
Name: _____ Title: _____ Date: _____
(sign) _____

INSTALLING VENDOR: NXEGEN, LLC

By: _____
(print) _____
Name: _____ Title: _____ Date: _____
(sign) _____

THE UNITED ILLUMINATING COMPANY:

By: Gary Pattavina
Title: Energy Engineer Date: 05/13/2015



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Financial Agreement Addendum

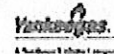
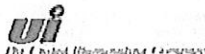
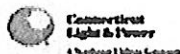
This Financial Agreement which forms part of the Municipal Energy Opportunities Standard Agreement and is effective as of the date signed by all parties below (the "Effective Date") is entered into by and between The United Illuminating Company ("UI") and Town Of Fairfield - Dept 001 (the "Customer"), pertaining to the building to be retrofitted at FAIRFIELD WOODS RD 1115 ; FAIRFIELD, CT (the "Facility"), Municipal Energy Opportunities Project # Nq5x.

The Customer agrees that UI makes no warranties, expressed or implied, regarding the serviceability of any products installed or purchased in connection with the Facility retrofit. The Customer also agrees that it is solely responsible for selecting and contracting with the contractor who will be performing the Facility retrofit, which contractor is identified below ("Contractor"). The Customer and Contractor (as evidenced by Contractor's signature below) each agree to indemnify and hold harmless UI and its officers, directors, employees of affiliates thereof, from any damages, fines, settlements or judgments which directly arise from or are caused by the wrongful, or negligent acts or omissions of any party in the conduct or performance of the Facility retrofit by the Contractor. The Customer shall specifically indemnify and hold harmless, UI with respect to all work contracted for between the Customer and the Contractor, and from any damages, fines, settlements or judgments which directly arise from or are caused by the acts or omissions of the Contractor.

The Customer understands and agrees that UI will not be responsible for any tax liability imposed on the Customer as a result of its participation in the Energy Opportunities program. Customer/Vendor must supply its Federal Tax Identification Numbers or Social Security Number as they are required for distribution of UI Incentives. UI will issue a 1099 form to each non-incorporated customer receiving an aggregate incentive payment in excess of \$600.00 in any calendar year.

Customer hereby requests that UI assist financially in connection with the installation work described in Schedule A of the Municipal Energy Opportunities Standard Agreement, at the service address listed below, pursuant to UI's terms and conditions applicable to the Energy Opportunities program. UI and the Customer agree that, in addition to any and all other terms and conditions of the Energy Opportunities program, upon the Customer or Contractor confirming completion of the installation work, and UI's post installation inspection and project verification as well as Customer's execution of an acknowledgement in the form attached hereto as Exhibit 2, UI will issue a check for all amounts approved by UI. The Customer shall be responsible for amounts, if any, in excess of amounts approved by UI and will pay such amounts directly to Contractor.

The Customer also agrees to pay UI the balance of the project cost or the pre-determined total amount as detailed below. The monthly payments will be included by UI on the Customer's regular electric service bill, and the first payment will be due on the first billing cycle following the processing of this agreement. In the event this account is finalized due to selling or closing the facility, the Customer will be required to pay the unpaid balance of this financing agreement within 30 days. By my signature below, I certify that I have read, understood and agree to the terms of this agreement.



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Financial Agreement Addendum

\$ 34,902.00
Total Cost

\$ 11,141.00
Incentive

\$.00
Co-Pay

\$ 23,761.00
Balance

\$ 495.03
Monthly Pymt.

48
Term

Please Note: On the initial bill only, the total balance amount will be displayed with an equal amount as a credit. This is for accounting purposes only.

06-6009803

Federal Tax ID or Social Security #, Customer

100000223087

Contract Account #, Customer

Town Of Fairfield - Dept 001

Account Name, Customer

Sal Morabito

Contact, Customer

1115 FAIRFIELD WOODS RD ; FAIRFIELD, CT 06825

Service Address, Customer

X
(Customer's Signature)

ACCEPTED: The United Illuminating Company

By

UI Administration

20-3850313

Federal Tax ID or Social Security #, Contractor

NXEGEN, LLC

Name, Contractor

JACK KIRSCHBAUM

Contact, Contractor

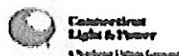
Signature, Contractor

362 INDUSTRIAL PARK RD SUITE 7 ; MIDDLETOWN, CT 06457

Address, Contractor

(Date)

(Date)



MEO Project # Nq5x Agreement Printed 05/13/2015 08:35:21 AM

ENERGY OPPORTUNITIES

1-877-WISE USE

Municipal Energy Opportunities Standard Agreement

EXHIBIT 2

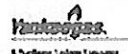
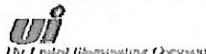
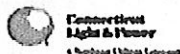
Reference is made to that certain Municipal Energy Opportunities Standard Agreement entered into by and between The United Illuminating Company ("UI") and the Town Of Fairfield - Dept 001 ("Customer") as of "Effective Date" of the Municipal Energy Opportunities Standard Agreement project# Nq5x. Customer hereby acknowledges and agrees that:

1. The ECMs (as defined in the MEO Agreement) installed by Installing Vendor (as defined in the MEO Agreement) were installed to the satisfaction of the Customer and are hereby accepted in all respects by the Customer; and
2. UI is authorized to release the Total Project Cost (as defined in Exhibit 1 of the MEO Agreement) to the Installing Vendor.

Town Of Fairfield - Dept 001

By: _____

Its: _____
Authorized Representative



MEO Project # Nq5x Agreement Printed 05/13/2015 08:35:21 AM

EO Incentive Application Worksheet - Schedule A

Facility Name: <u>Town Of Fairfield - Dept 001 Fairfield</u>	Phone: <u>(203)255-7363/2</u>
Service Address: <u>Fairfield Woods Rd 1115</u>	Facility Use: _____
City: <u>Fairfield</u> Zip: <u>06825</u>	Square Footage: <u>17,00,</u>
Contact Person: <u>Morabito, Sal</u>	EO Rep: <u>Pattavina, Gary</u>
Federal Tax I.D. No: <u>06-6009803</u>	EO Project No: <u>Nq5x</u>

Custom Measure	Quantity	Cost(\$)	kWh Usage Change	Savings(\$)
----------------	----------	----------	------------------	-------------

Location: Location 1

17W LP CONVERSION SEE LIGHTING SCHED	1	\$8,376	-8,089	\$1,294
--------------------------------------	---	---------	--------	---------

Location: Location 2

34 LED FIX CONVERSION SEE LIGHTING	1	\$26,526	-29,047	\$4,648
------------------------------------	---	----------	---------	---------

Custom Measure total:

\$34,902	-37,136	\$5,942
----------	---------	---------

Mandatory Cap	Quantity	Cost(\$)	kWh Usage Change	Savings(\$)
---------------	----------	----------	------------------	-------------

Location: Project/taxid Level

Mandatory Cap Adj.	1	\$0	0	\$0
--------------------	---	-----	---	-----

Mandatory Cap Adjustment

\$0	0	\$0
-----	---	-----

Customer Application & Analysis -

In addition to the terms and conditions contained in UI's Standard Agreement and Schedule A, UI may require a thorough analysis of the demand and energy reduction potential, and the life expectancy of proposed Energy Conservation Measures (ECMs). UI may require the Customer to provide specifications, engineering data, or other reasonable information necessary to complete an independent analysis. UI reserves the right to accept, reject or modify any calculations based on UI's own analysis including but not limited to the incremental cost of energy or demand savings, actual energy savings, life of the ECM, and the cost of the ECM. UI's approved and unsigned proposal will remain valid for thirty (30) days. If proposal is not accepted during this period, account re-qualification will be required. UI will approve only those site-specific ECM's which it believes have cost effective energy and demand reduction potential. In any case, UI reserves sole discretion to approve or disapprove any proposed ECM.

Program Changes -

The Program's Terms and Conditions may be changed by UI at any time without notice. Pre- approved applications however will be processed to completion under the Terms and Conditions in effect at the time of UI pre-approval.

EO Incentive Application Worksheet - Schedule A

Summary Page of EO Schedule A of project Nq5x as of 05/13/2015 08:30:39

Facility Name:	<u>Town Of Fairfield - Dept 001 Fairfield</u>	Phone:	<u>(203)255-7363/2</u>
Service Address:	<u>Fairfield Woods Rd 1115</u>	Facility Use:	<u></u>
City:	<u>Fairfield</u>	Zip:	<u>06825</u>
Contact Person:	<u>Morabito, Sal</u>	Square Footage:	<u>17,,00,</u>
Federal Tax I.D. No:	<u>06-6009803</u>	EO Rep:	<u>Pattavina, Gary</u>
		EO Project No:	<u>Nq5x</u>

TOTAL COST: **\$34,902**

TOTAL SAVINGS: **\$5,942**

TOTAL INCENTIVES: **\$11,141**

MONTHLY PAYMENT: **48 @ \$495.03**

Customer or Customer's agent name (print): _____

Customer or Customer's agent Signature: _____

Title: _____ Date: _____

I authorize UI to issue the incentive check, for the above amount, to

NXEGEN, LLC

(the installing contractor, facility owner or other).

Customer or Customer's agent Signature

Date

1. The first part of the paper discusses the importance of the study and the objectives of the research. It highlights the need for a comprehensive understanding of the subject matter and the role of the researcher in this process.

2. The second part of the paper presents the methodology used in the study. It details the data collection methods, the sample size, and the statistical techniques employed to analyze the data.

3. The third part of the paper discusses the results of the study. It presents the findings of the research and compares them with the existing literature. The results show that there is a significant difference between the two groups.

4. The fourth part of the paper discusses the conclusions of the study. It summarizes the main findings and provides recommendations for future research. The study concludes that the methodology used is effective and that the results are reliable.

5. The fifth part of the paper discusses the limitations of the study. It acknowledges the weaknesses of the research and suggests ways to improve the study in the future. The study concludes that the methodology used is effective and that the results are reliable.

6. The sixth part of the paper discusses the implications of the study. It explains how the findings of the research can be applied in the real world. The study concludes that the methodology used is effective and that the results are reliable.

7. The seventh part of the paper discusses the future research. It suggests areas for further study and provides recommendations for future research. The study concludes that the methodology used is effective and that the results are reliable.

8. The eighth part of the paper discusses the conclusion of the study. It summarizes the main findings and provides recommendations for future research. The study concludes that the methodology used is effective and that the results are reliable.

9. The ninth part of the paper discusses the limitations of the study. It acknowledges the weaknesses of the research and suggests ways to improve the study in the future. The study concludes that the methodology used is effective and that the results are reliable.



1-866-NXGEN / 1 (693-4361)

www.nxgen.com

Fairfield Woods Middle School

May 15, 2015

Lighting Improvement Analysis

Nxegen Recommended Solutions



362 Industrial Park Rd. Ste 7 Middletown, CT 06457

INITIAL PROPOSAL FOR:

DATE: May 15, 2015

NAME: Fairfield Woods Middle School
ADDRESS: 1115 Fairfield Woods Rd
Fairfield, CT 06825
CONTACT: Sal Morabito
PHONE: (203) 255-7363

The following is a summary of proposed retrofit work.

End use: **Energy Efficient Lighting**

Estimated annual energy savings (KWH):	36,882
Estimated electric cost savings:	\$5,827.42
Estimated payback period (After incentive in years):	3.95
Return on investment (ROI)	25.3%
<u>Customer Cost Summary:</u>	
Material/Labor:	\$34,903.51
Sales tax:	\$0.00
Total project cost:	\$34,903.51
**Estimated Utility incentive:	\$11,860.03
Customer balance:	\$23,043.48
Estimated monthly savings:	\$485.62
Payment due prior to installation:	\$11,521.74
Payment due upon completion of project:	\$11,521.74

**This is an estimate. Final incentive needs to be approved by United Illuminating (UI).


The lighting estimates described above are based on a review of a sample of lighting fixtures in your facility. For all measures, operating hour estimates provided by representatives of your facility are used to calculate savings. All existing lighting fixtures are assumed to be fully operational. Conditions found during the installation phase may require revisions to the proposed estimates. Changes in processes, operations, equipment or operating hours will impact the savings estimates.

The documentation for this agreement consists of this agreement and the line by line assessment of your facility.

Based on the current Scope of Work, the project is currently under a four-year payback and is contingent on receiving 0% financing through United Illuminating (UI). Provided the project is approved for financing, there will be no out-of-pocket expense for Fairfield Public School. By signing of this document, Nxegen will request incentive and financing from United Illuminating (UI) on behalf of Fairfield Public School.

This agreement shall be valid for 30 days and may be rendered void if not signed by June 14, 2015

I have read this document and reviewed the assessment report. I understand that the values described above are estimates and that actual results may vary.



Customer Signature

Date



Fairfield Woods Middle School

Total Cost of Labor & Materials	\$	34,903.51
Sales Tax	\$	-
Total Cost	\$	34,903.51
Estimated Utility Rebate	\$	11,860.03
Net Cost	\$	23,043.48

Total Existing Wattage	15,313	Annual kWh Existing	54,252
Total Proposed Wattage	4,993	Annual kWh Proposed	17,369
Savings kWh			36,882
Savings Dollars			\$ 5,827.42

Annual Hours	Varies Per Area
kWh Rate	\$ 0.1580

Payback	3.95
----------------	-------------

Audit Location	Area	Existing Fixture Type	Watts/ Fixture Before	Total Existing Wattage	Existing Fixture Qty	Annual Hours Before	Annual kWh Before	New or Retrofit (N or R)	Fixture Qty After	Proposed Fixture Type	Watts/ Fixture After	Total Proposed Wattage	Annual Hours After	Annual kWh After Saved	Payback
Entry	1	2x2 F32U 2L 32W EB	56	280	5	3,970	1,112 R			5 RETROFIT 2x2 F17/17W 2L Kit with Standard Ballast	29	145	3,970	576	2.85
	2	2x2 BIAx 3L 32W Para EB with one lamp 24/7	84	168	2	3,970	667 R			2 RETROFIT 2x2 F17/17W 3L Kit with Standard Ballast & (1) Lamp 24/7	41	82	3,970	326	1.28
Cafeteria	3	2x2 F32U 2L 32W EB	56	56	2	4,790	268 N			2 Included in above fixture	14	28	4,790	134	0.00
	4	2x2 F32U 2L 32W EB	56	672	12	3,970	2,668 R			12 RETROFIT 2x2 F17/17W 2L Kit with Standard Ballast	29	348	3,970	1,382	2.85
Conference room	5	2x2 BIAx 3L 32W Para EB with one lamp 24/7	84	168	2	3,970	667 R			2 RETROFIT 2x2 F17/17W 3L Kit with Standard Ballast & (1) Lamp 24/7	41	82	3,970	326	1.28
Guidance hall	6	2x2 F32U 2L 32W EB	56	336	6	2,340	786 R			6 RETROFIT 2x2 F17/17W 2L Kit with Standard Ballast	29	174	2,340	407	3.79
	7	2x2 F32U 2L 32W EB	56	224	4	2,340	524 R			4 RETROFIT 2x2 F17/17W 2L Kit with Standard Ballast	29	116	2,340	271	2.53
Right hall	8	2x2 F32U 2L 32W EB	56	56	1	8,760	491 R			1 RETROFIT 2x2 F17/17W 2L Kit with Standard Ballast	29	29	8,760	254	2.37
A134 Hall	21	2x2 F32U 2L 32W EB	56	504	9	3,970	2,001 R			9 RETROFIT 2x2 F17/17W 2L Kit with Standard Ballast	29	261	3,970	1,036	9.65
Office	22	2x2 F32U 2L 32W EB	56	112	2	3,970	445 R			2 RETROFIT 2x2 F17/17W 2L Kit with Standard Ballast	29	58	3,970	230	2.14
Room A110	23	2x2 F32U 2L 32W EB	56	1,400	25	2,340	3,276 R			25 RETROFIT 2x2 F17/17W 2L Kit with Standard Ballast	29	116	2,340	271	2.53
New wing 2nd floor	24	2x2 F32U 2L 32W EB	56	616	11	3,970	2,446 R			11 RETROFIT 2x2 F17/17W 2L Kit with Standard Ballast	29	725	2,340	1,697	1,580
Front Parking	27	150W HPS	173	519	3	3,650	1,894 N			3 LED Rab ALED03T50	52	156	3,650	569	1,179
Material	28	250w MH	288	864	3	3,650	3,154 N			3 LED Rab ALED04T78	79	237	3,650	865	2,289
Auditorium Parking	29	250w MH	288	2,880	10	3,650	10,512 N			10 LED Rab ALED04T78	79	790	3,650	2,884	7,629
Material	34	400W HPS	460	1,380	3	3,650	5,037 N			3 LED UIC 90w Wall Pack	90	270	3,650	986	4,052
Left Entry	35	175w MH	201	201	1	3,650	734 N			1 LED Trace Lite Yard Light	41	41	3,650	150	584
Rear Parking	36	250w MH	288	288	1	3,650	1,051 N			1 LED 40W Maxlite Canopy	35	35	3,650	128	923
Material	37	100w MH	115	115	1	3,650	420 N			1 LED Rab WPLED26	28	28	3,650	102	318
Rear of School	38	250w MH	288	1,152	4	3,650	4,205 N			4 LED Rab ALED04T78	79	316	3,650	1,153	3,051
Material	38.9	Material			0		0			4 Material Special			0	0	0.00
Down stairs	39	175w MH	201	201	1	3,650	734 N			1 LED Trace Lite Yard Lite	41	41	3,650	150	584
Right rear	40	400W HPS	460	1,840	4	3,650	6,716 N			4 LED UIC 90w Wall Pack	90	360	3,650	1,314	5,402
	42	70W HPS	81	81	1	3,650	296 N			1 LED Rab WPLED26	28	28	3,650	102	193
	43	400W HPS	460	920	2	3,650	3,358 N			2 LED UIC 90w Wall Pack	90	180	3,650	657	2,701
				15,313	138		54,252		138			4,993		17,369	36,882

Total Fixtures Before	138
Existing Annual kWh	54,252
Total Fixtures After	138
Proposed Annual kWh	17,369
Annual kWh Saved	36,882



Carbon Footprint Report Card

Installation of the energy efficiency measures identified for this project will save an estimated **36,882** KWH per year.

THIS IS THE EQUIVALENT TO:

18,953 POUNDS OF COAL NOT BURNED

2,438 GALLONS OF OIL NOT BURNED

4 HOMES PROVIDED WITH ELECTRICITY EACH YEAR

By reducing greenhouse gas emissions and other harmful environmental pollutants, this project will also help reduce air pollution and improve air quality.

THE ENVIRONMENTAL BENEFITS FROM THIS PROJECT ARE:

75 POUNDS OF SULFUR OXIDES (SO_x) EMISSIONS AVOIDED

20 POUNDS OF NITROGEN OXIDES (NO_x) EMISSIONS AVOIDED

40,534 POUNDS OF CARBON DIOXIDE (CO_x) EMISSIONS AVOIDED



1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation

$$f(x) = \sum_{n=0}^{\infty} \frac{a_n}{n!} x^n$$

where a_n are the coefficients of the power series. It is shown that the function $f(x)$ is analytic in the whole plane and that it satisfies the differential equation

$$f'(x) = f(x) + 1$$

which has the solution $f(x) = e^x - 1$. It is also shown that the function $f(x)$ is the unique solution of this equation satisfying the condition $f(0) = 0$.

2. In the second part of the paper the properties of the function $f(x)$ are studied for $x > 0$. It is shown that the function $f(x)$ is increasing and concave down for $x > 0$.

3. In the third part of the paper the properties of the function $f(x)$ are studied for $x < 0$. It is shown that the function $f(x)$ is decreasing and concave up for $x < 0$.

4. In the fourth part of the paper the properties of the function $f(x)$ are studied for $x = 0$. It is shown that the function $f(x)$ is differentiable at $x = 0$ and that its derivative is equal to 1.

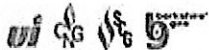
5. In the fifth part of the paper the properties of the function $f(x)$ are studied for $x \rightarrow \infty$. It is shown that the function $f(x)$ approaches infinity as x approaches infinity.

6. In the sixth part of the paper the properties of the function $f(x)$ are studied for $x \rightarrow -\infty$. It is shown that the function $f(x)$ approaches negative infinity as x approaches negative infinity.

7. In the seventh part of the paper the properties of the function $f(x)$ are studied for $x \rightarrow 0^+$. It is shown that the function $f(x)$ approaches 0 as x approaches 0 from the right.

8. In the eighth part of the paper the properties of the function $f(x)$ are studied for $x \rightarrow 0^-$. It is shown that the function $f(x)$ approaches 0 as x approaches 0 from the left.

9. In the ninth part of the paper the properties of the function $f(x)$ are studied for $x \rightarrow \infty$. It is shown that the function $f(x)$ approaches infinity as x approaches infinity.



Request for Taxpayer

Name	Town of Fairfield - Board of Education
Other Name Used / DBA	
Mailing Address	

Employer Identification Number _____ or Social Security Number _____ - _____ - _____

Exempt Payee ☐

Please select one of the following business entities below:

- ☐
- Individual/Sole Proprietorship**

If a sole proprietor, please clearly print the name of the business owner

- ☐ **Partnership**

You must clearly print the names of at least 1 of the partners / principal owners of the company: _____

- ☐ **Corporation**

- ☒ **Tax Exempt Organization: Not-for-Profit, Federal, State, or Local Government Agencies**

- ☐ **Limited Liability Company (LLC)** - *If selecting this choice, please check one of the following:*

_____ The company (LLC) will file a Federal Income Tax as an Individual – *Please provide name and Social Security / Employer I.D. # of the individual:*

_____ The company (LLC) will file a Federal Income Tax return as a Partnership - *Please provide name of one of the partners:*

The company (LLC) will file a Federal Income Tax return as a Corporation

Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is the correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. Citizen or other U.S. person (including a U.S. resident alien).

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN.

Print Name _____

Signature ▶

Date ▶ _____

Telephone No. _____ Fax No. _____ Email _____

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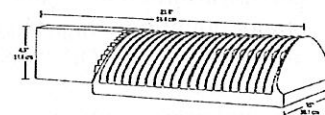
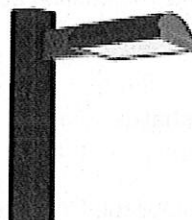
Page 1 of 1

ALED3T50

Specification grade area lights available in IES Type III distributions. For use for roadway, general parking and other area lighting applications where a larger pool of lighting is required. Mounts to 4" square steel poles at 20-35'. Patent pending thermal management system. 5 Year Warranty.

Color: Bronze

Weight: 32.0 lbs



LED Info

Watts: 50W
Color Temp: 5000K (Cool)
Color Accuracy: 67
L70 Lifespan: 100000
LM79 Lumens: 4,846
Efficacy: 94 LPW

Driver Info

Type: Constant Current
120V: 0.46A
208V: 0.27A
240V: 0.23A
277V: 0.20A
Input Watts: 52W
Efficiency: 97%

Technical Specifications

UL Listing:

Suitable for wet locations as a downlight.

Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

IES Classification:

The Type III distribution is ideal for roadway, general parking and other area lighting applications where a larger pool of lighting is required. It is intended to be located near the side of the area, allowing the light to project outward and fill the area.

LEDs:

Multi-chip, high-output, long-life LEDs

IP Rating:

Ingress Protection rating of IP66 for dust and water.

Driver:

Constant Current, Class 2, 1400mA, 100-277V, 50-60Hz, 0.8A, Power Factor 99%

THD:

7.0% at 120V, 7.4% at 277V

Surge Protection:

6kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2.

Ambient Temperature:

Suitable for use in 40°C ambient temperatures.

Cold Weather Starting:

The minimum starting temperature is -40°F/-40°C.

Thermal Management:

Superior patent pending thermal management design with external Air-Flow fins provides maximum operational life, even in high ambient temperature environments.

Effective Projected Area:

EPA = 0.75

Housing:

Die cast aluminum housing, lens frame and mounting arm.

Mounting:

Heavy-duty mounting arm with "O" ring seal & stainless steel screws.

Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

Color Stability:

LED color temperature is warrantied to shift no more than 200K in CCT over a 5 year period.

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2011.

Reflector:

Specular vacuum-metallized polycarbonate

Gaskets:

High temperature silicone gaskets



Tech Help Line: 888 RAB-1000

Email: sales@rabweb.com

On the web at: www.rabweb.com

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Note: Specifications are subject to change without notice

Page 1 of 2

ALED3T50 - continued

Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

Equivalency:

ALED™ 50W replaces 200W metal halide

Green Technology:

Mercury and UV free, and RoHS compliant. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

DLC Listed:

This product is on Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.

IESNA LM-79 & IESNA LM-80 Testing:

RAB LED fixtures have been tested by an independent laboratory in accordance with IESNA LM-79 and 80, and have received the Department of Energy "Lighting Facts" label.

California Title 24:

See ALED3T50/PC, ALED3T50/PCS or ALED3T50/PCT for a 2013 California Title 24 compliant model.

Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

Patents:

The LROAD™ design is protected by patents pending in the U.S., Canada, China, Taiwan and Mexico.

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of ten (10) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

Country of Origin:

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers.

Buy American Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act.

Recovery Act (ARRA) Compliant:

This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods--Buy American Act-- Construction Materials (October 2010).

Trade Agreements Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act.

GSA Schedule:

Suitable in accordance with FAR Subpart 25.4.

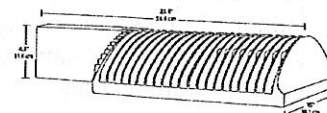
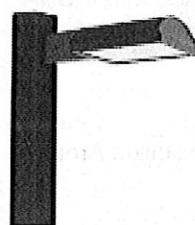


ALED4T78

Specification Grade Area lights available in IES Type IV distributions. For use in parking lots, roadways, pathways and general area lighting. Mounts to 4" square steel poles at 15-25'. Designed to replace 250W Metal Halide Area Lights. Patent Pending thermal management system. 5 Year Warranty.

Color: Bronze

Weight: 31.0 lbs



LED Info

Watts: 78W
 Color Temp: 5100K (Cool)
 Color Accuracy: 67
 L70 Lifespan: 100000
 LM79 Lumens: 7,564
 Efficacy: 96 LPW

Driver Info

Type: Constant Current
 120V: 0.66A
 208V: 0.41A
 240V: 0.35A
 277V: 0.30A
 Input Watts: 79W
 Efficiency: 99%

Technical Specifications

UL Listing:

Suitable for wet locations as a downlight.

Lumen Maintenance:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

IES Classification:

The Type IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semiCircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

Effective Projected Area:

EPA = 0.75

LEDs:

Six (6) multi-chip, 13W, high-output, long-life LEDs.

Driver:

Constant Current, Class 2, 2000mA, 100-277V, 50-60Hz, 1.1A, Power Factor 99%

THD:

5.1% at 120V, 13.2% at 277V

Ambient Temperature:

Suitable for use in 40°C ambient temperatures.

Surge Protection:

4kV

Cold Weather Starting:

The minimum starting temperature is -40°F/-40°C.

Thermal Management:

Superior heat sinking with external Air-Flow fins.

Housing:

Die cast aluminum housing, lens frame and mounting arm.

Color Consistency:

3-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

Color Stability:

LED color temperature is warranted to shift no more than 200K in CCT over a 5 year period.

Color Uniformity:

RAB's range of CCT (Correlated color temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2008.

Reflector:

Specular vacuum-metallized polycarbonate

Gaskets:

High temperature silicone gaskets.

Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

Surge Protector:

ALED78 is available with a 6kV surge protector (SP6). SP6 available .

Green Technology:

Mercury and UV free.



Tech Help Line: 888 RAB-1000

Email: sales@rabweb.com

On the web at: www.rabweb.com

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Note: Specifications are subject to change without notice

Page 1 of 2

ALED4T78 - continued**IESNA LM-79 & IESNA LM-80 Testing:**

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and 80, and have received the Department of Energy "Lighting Facts" label.

Replacement:

The ALED78 replaces 250W Metal Halide Area Lights.

California Title 24:

See ALED4T78/D10, ALED4T78/BL, ALED4T78/PCS, ALED4T78/PCS2, or ALED4T78/PCT for a 2013 California Title 24 compliant product. Any additional component requirements will be listed in the Title 24 section under technical specifications on the product page.

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

Patents:

The ALED design is protected by patents in the U.S. Pat. 668,370, Canada Pat. 144956, China ZL201230100154.X, and Mexico Pat. 38423. Pending patents in Taiwan.

For use on LEED Buildings:

IDA Dark Sky Approval means that this fixture can be used to achieve LEED Credits for Light Pollution Reduction.

Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.



RAB LIGHTING WPLED26



JOB NAME: _____
DATE: _____
TYPE: _____

DESCRIPTION

LED 26 Watt Wallpacks

SPECIFICATIONS

UL Listing

Suitable for wet locations. Suitable for mounting within 4' of the ground.

Finish

Chip and fade resistant polyester powder coat finish.

Color Stability

RAB LEDs exceed industry standards for chromatic stability.

Color Uniformity

RAB's range of CCT (Correlated color temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2008.

Ambient Temperature

Suitable for use in 40C ambient temperatures.

Fixture Efficacy

61 Lumens per Watt

Color Accuracy

66 CRI

Color Temperature (Nominal CCT)

5169 K (Daylight)

LED Light Engine

Multi-chip 26W high output long life LED Driver Constant Current, 720mA, Class 2, 6 KV Surge Protection, 100V-277V, 50-60 Hz, 100-240V .4 Amps

Cold Weather Starting

The minimum starting temperature is -40° C

Heatsink

Cast aluminum thermal management system for optimal heat sinking. The LPACK is designed for cool operation, most efficient output and maximum LED life by minimizing LED junction temperature.

California Title 24

WPLED complies with California Title 24 building and electrical codes.

Equivalency

The WPLED26 is Equivalent in delivered lumens to a 175W Metal Halide Wallpack.

HID Replacement Range

The WPLED26 can be used to replace 150 - 200W Metal Halide Wallpacks based on delivered lumens.

Green Technology

RAB LEDs are Mercury, Arsenic and UV free.

Patents

The WPLED design is protected by U.S. PATENT D608,040 and patents pending in the U.S., Canada, China, Taiwan and Mexico.

For use on LEED Buildings

IDA Dark Sky Approval means that this fixture can be used to achieve LEED Credits for Light Pollution Reduction

Dark Sky Approved

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

Country of Origin

Designed by RAB in New Jersey and assembled in Taiwan

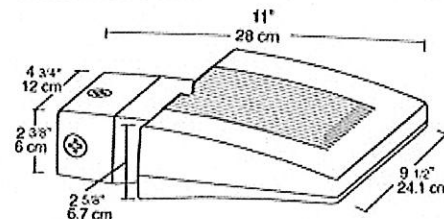
Trade Agreements Act Compliant

This product is a product of Taiwan and a "designated country" end product that complies with the Trade Agreements Act.

GSA Schedule

This product is suitable for listing on the GSA Schedule of the US General Services in accordance with FAR Subpart 25.4

DIMENSIONS



ORDERING INFORMATION

LED Lamp supplied with fixture	Total Watts	Lamp Type	Lamp Base	Ballast	Starting Amps/ Operating Amps				Input Watts	LAMP ANSI	Initial Lumens	Lamp Hours
					120V	208V	240V	277V				
	26	LED	Heat-sink	Constant Current	0.26	0.16	0.14	0.12	30.2	N/A	1816	50000

Factory Installed Options
Add suffix to Catalog Number

Photocontrol for 277V (/PC2)

Photocontrol for 120V (/PC)

Note: Specifications may change without notice

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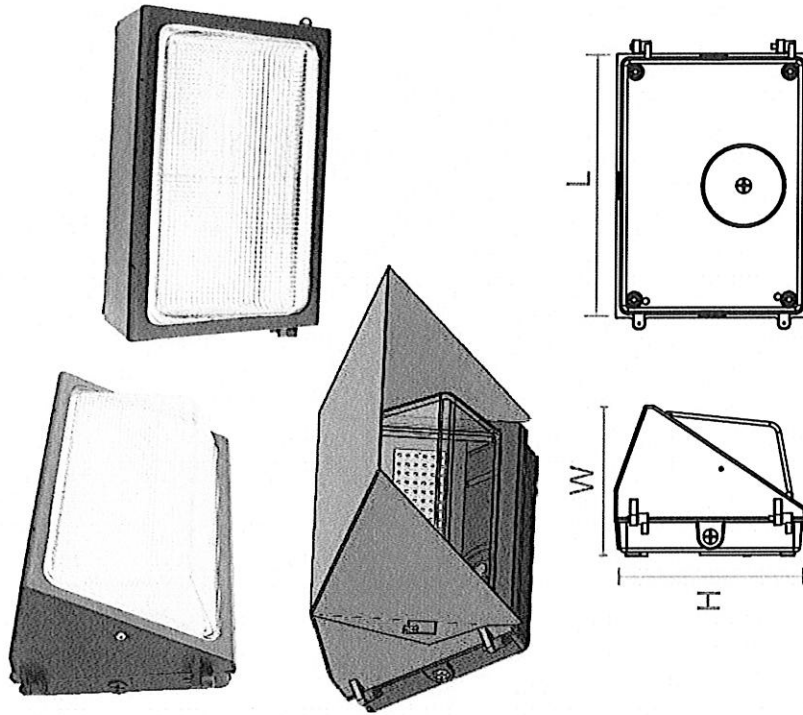


UIC ENERGY LLC

INNOVATIVE SOLUTIONS FOR GREEN ENERGY

Specifications

Item Number	UIC-WPO-80
LED Source	Philips
Driver	TOWIN
Input	100-277VAC, 50-60HZ
Power Factor	>0.9
LED power consumption	80W
Lamp's Efficiency(lm/w)	90
LM	7200lm
CCT	5000K
Operating Temperature	-30~+40 degree
CRI	>70
IP	65
Beam Angle	120 degree
Product Materials	Aluminum Alloy
Color	Brown
LED lifetime	>50,000hrs
Dimension(LxHxW inch)	14.2"x9.3"x7.4"
Certificates	UL, DLC



WEBSITE : www.uicenergy.com ● E-MAIL : info@uicenergy.com

CORPORATE OFFICE : 55 Capital Blvd., 2nd Floor, Rocky Hill, CT 06067. Tel : (877)-316-8285 Fax : (860)-436-5601

MANUFACTURING : 101 North Plains Industrial Road, Building 3, Wallingford, CT 06492. Tel : (203)-774-5653 Fax : (860)-436-5601

Model Number:

Accessories:

Job:

Type:

Approvals:

DESCRIPTION

TRACE[®]LITE's new TLED612 series LED dusk-to-dawn fixture features an SSL light engine using LEDs that provides improvements in efficacy, lumen output, and lamp life compared to traditional dusk-to-dawn fixtures, while still maintaining the utility and flexibility required for a dusk-to-dawn fixture. The TLED612 housing is constructed of die-cast aluminum with a UV resistant, thermo-set polyester powder coat finish that provides durable protection from environmental conditions, corrosion and the elements as well as being UL listed for Wet Locations. The SSL light engine is protected by a high-impact, prismatic acrylic lens that also provides optic control.

SPECIFICATIONS**Construction:**

The TLED612 series has a die-cast aluminum housing with stainless steel hardware, prismatic acrylic lens, silicon gaskets and a UV resistant, thermoset polyester powder coated finish. The TLED612 is completely sealed with silicon gaskets and is UL listed for Wet Location. The TLED612 offers a variety of mounting methods for many different applications.

Optics:

Our TLED612 series dusk-to-dawn delivers exceptional light quality, with a 5000K correlated color temperature, a CRI of ≥ 75 , and a projected color shift of less than 1%. The TLED612 LED utilizes an acrylic lens that distributes the light evenly, delivering light where it is needed in the most efficient way possible. Producing 3194 delivered lumens, the TLED612 has an L70 of 50,000 hours.

Electrical:

A 120VAC twist-lock photocontrol is included with the TLED612-41-VS-PC1TL as standard equipment; a 208-277VAC twist-lock photocontrol is an available optional accessory. The LED light engine used in the TLED612 is powered by a, high efficiency Class 2 LED driver with active power factor correction (0.99 typical), a IP67 rating and all around protection against over-voltage, over-temperature and short circuit conditions as well lightning protection. The TLED612 driver has a standard input voltage of 120 ~ 277VAC 50/60Hz, a Class A EMI rating, and complies with UL8750 safety regulations and with ANSI/IEEE C62.41 Class A Operation. The TLED612 is suitable for operation in -30°C (-22°F) to 40°C (104°F) ambient conditions.

Thermal Management:

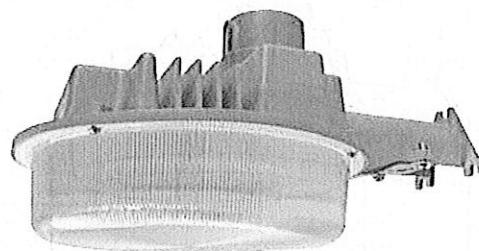
The TLED612's LED light engine is mounted directly to the cast aluminum housing which also acts as a thermal heat sink; this configuration optimizes the thermal dissipation for the LEDs, which in turn, makes possible the high efficacy, lumen output and longevity of the TLED612.

Environmentally Friendly Design:

TLED612 luminaires consume very little energy and provide long life in comparison to traditional lamp technologies, the TLED612-41-VS-PC1TL consumes only 41 watts, but the light output can be conservatively compared to a 100W or 150W HID luminaire of similar design. Our manufacturing process utilizes no hazardous substances such as mercury or lead. The TLED612 is 100% recyclable, and provides a significant reduction in Kw load and carbon emissions.

Installation:

The TLED612 series dusk-to-dawn luminaire features a design that can be mounted to any vertical surface using lag bolts or other comparable and suitable anchors, with a wiring compartment that is easily accessible without the need to remove the lens or disassemble the fixture. The TLED612 can also be mounted to existing 1-1/2" or 1-5/8" pipe mounts, offering the installer the flexibility to satisfy many different mounting applications and requirements. This is especially useful when using the TLED612 to retrofit older dusk-to dawn luminaires.

LED[®]LITE[®]logic

SPECIFICATIONS ARE SUBJECT
TO CHANGE WITHOUT NOTICE

Testing & Compliance:

The reliability and performance of the TLED612 is evaluated in accordance with the parameters outlined and reported by LM-79 and LM-80 documents. Photometric data is tested to IESNA LM-79-08 standard by an independent testing laboratory. Lumen maintenance, L70 a measure of long term reliability, is determined for the light source, which consists of the LED and PSB sub-assembly as installed in the luminaire, is determined using LM-80 in situ thermal and reliability data as provided by the LED manufacturer in accordance with DOE/EPA standards.

Listing:

UL listed for wet locations

Warranty:

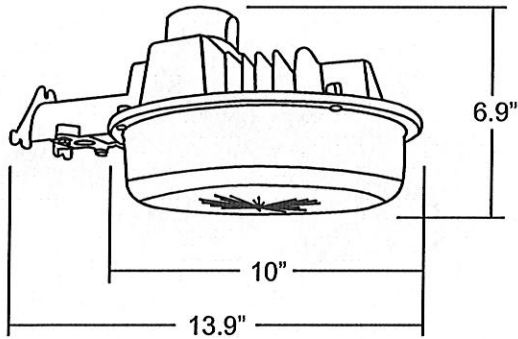
Any component that fails due to manufacturer's defect is guaranteed for 5 years. The warranty does not cover physical damage, abuse or acts of God. Manufacturer reserves the right to charge for such repairs if deemed necessary.

Fixture Performance

Part Number	Total System Watts	Initial Lumens	Lumens Per Watt (LPW)	L70 Hours @ 25°C	BUG Rating
TLED612-41	41	3194	78	50,000	B2-U2-G1

NOTE: Lumen maintenance and life (part of LM-80 data) are per published information from primary LED suppliers and is based on design operation at their specified thermal management and electrical design parameters.

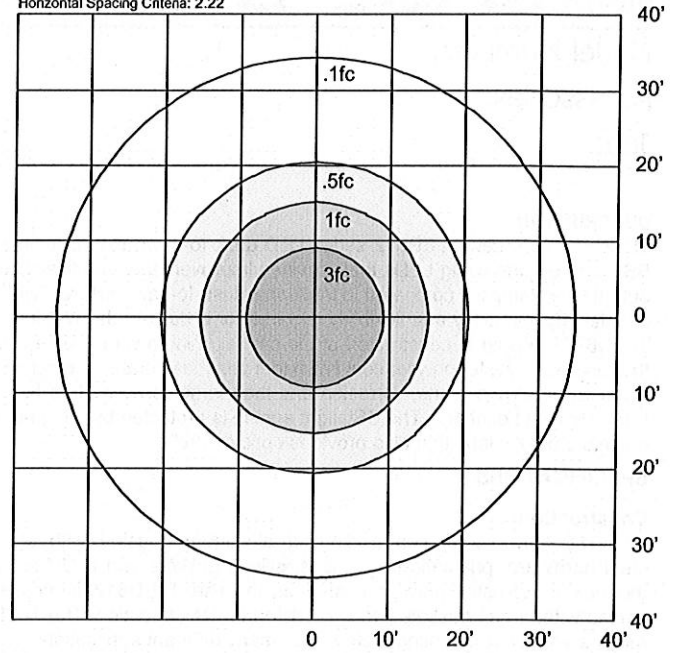
Dimensions



Approximate Weight: 8lbs

Sample Photometrics

TLED612-41 Mounted at 10' (NEMA 7H x 7V IES Type V Very Short)
Horizontal Spacing Criteria: 2.22



Ordering Information

Example: TLED612-41-VS-PC1TL

Series	Input Voltage	Options (Factory Installed)
TLED612-41	VS = 120 ~ 277VAC (Voltage Sensing)	PC1TL = 120VAC Twist-lock Photocontrol (Standard)
		Accessories ¹ (Field Installed)
Notes		PC2TL = 208-277VAC Twist-lock Photocontrol
¹ Order as separate line item		TLED612-RL = Replacement Lens



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LED Parking Garage Luminaires



Surface mounted Parking Garage canopy fixture is constructed with a shatter and UV resistant polycarbonate lens.

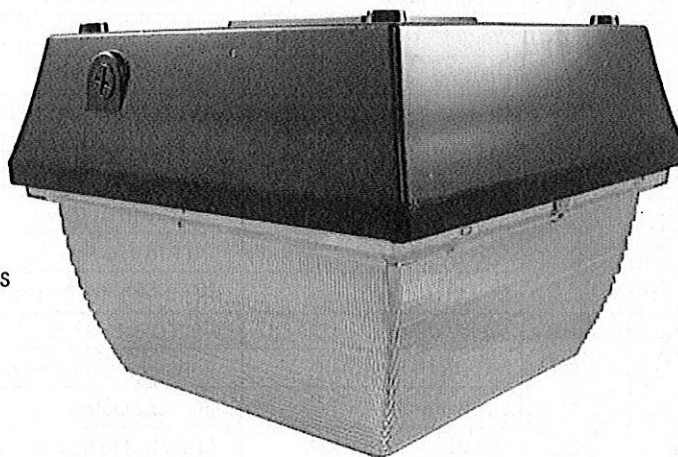
LED System: Uses proprietary binning for color consistency.

Fixture can be mounted to electrical boxes or mounted directly to surfaces.

PROJECT NAME
CATALOG NUMBER
NOTES
FIXTURE TYPE

FEATURES:

- 40W replaces up to 175 Watt Metal Halide
- 70W replaces up to 250 Watt Metal Halide
- Delivered Lumens: 40W: 2531 at 5000K
70W: 4200 at 5000K
- 50,000 Hour Life (L70)
- Self-contained driver
- Universal 120V through 277V
- Maintenance free and constructed without UV
- Dusk To Dawn and occupancy sensor available
- Can be mounted on electrical boxes or directly to surfaces
- LM-79/80 data available
- 5 Year Limited Warranty
- Does not attract insects
- Available in two finishes - Architectural Bronze and White



CONSTRUCTION:

Fixture: This rust and corrosion proof fixture is constructed of heavy-duty cast aluminum one-piece housing, with a polyester powder coat. The fixture is sealed to be dirt and bug proof.

Lens: High quality shock proof polycarbonate lens with UV inhibitors

LED Module: Copper plating to provide high thermal transfer rate, minimizing junction temperature of LEDs to maximize service life.

DESIGNLIGHTS
CONSORTIUM



Luminaire Ordering Information:

WATTS	ORDER CODE	MODEL NUMBER	LUMENS	LIFE (Hrs)	DIMENSIONS (L"xW"xH")	K
* 40	71259	MLPKG40LED50	2531	50,000	12.25 x 12.25 x 9.0	5000
* 40	71378	MLPKG40LED50W	2531	50,000	12.25 x 12.25 x 9.0	5000
* 70	71260	MLPKG70LED50	4200	50,000	12.25 x 12.25 x 9.0	5000
* 70	71377	MLPKG70LED50W	4200	50,000	12.25 x 12.25 x 9.0	5000

* DLC Qualified

Lighting layouts and spacing criteria available upon request

LED PARKING GARAGE LUMINARIES - 40 & 70W

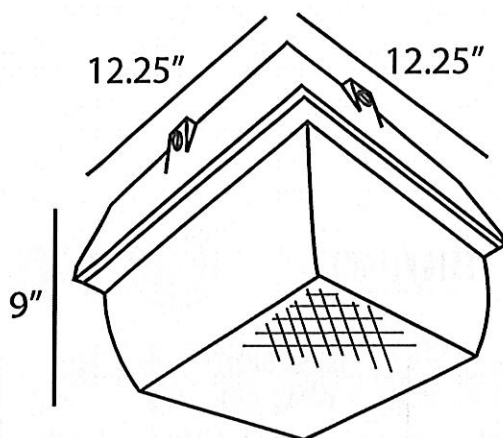


SPECIFICATIONS:

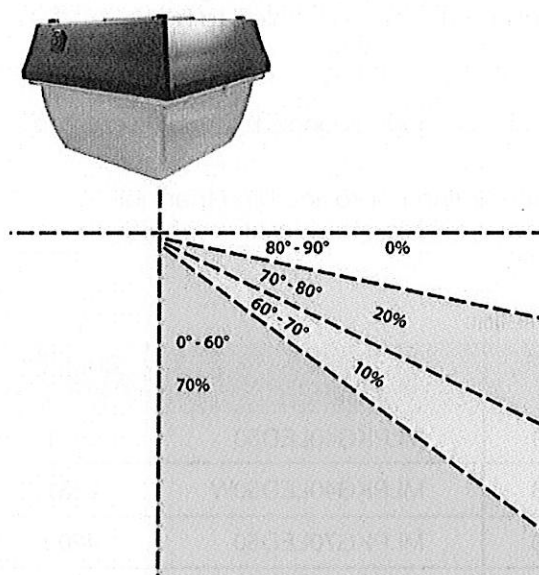
Item	Specification	MLPKG40LED50	MLPKG70LED50
General Performance	Spacing Criteria	Available upon request	Available upon request
	Color Temperature	5000K	5000K
	Lumens	2531	4200
	Efficacy	68.2 lumen/watt	60 lumen/watt
	Color Consistency	Proprietary binning for uniform color	Proprietary binning for uniform color
	Lumen Maintenance (L70)	50,000 hours	50,000 hours
Electrical	Power Factor	> 90%	> 90%
	Input Voltage	120V-277V 50/60 Hz	120V-277V 50/60 Hz
	Power Consumption	37.1 Watts	70 Watts
Physical	Dimensions	12.25" x 12.25" x 9.0"	12.25" x 12.25" x 9.0"
	Weight	8.8 Lbs.	8.8 Lbs.
	Housing	Aluminum	Aluminum
	Finish	Architectural Bronze and White	Architectural Bronze and White
	Lens	Shock proof polycarbonate	Shock proof polycarbonate
	Mounting	Fits electrical boxes or mounts directly to surfaces	Fits electrical boxes or mounts directly to surfaces
	Operating Temperature	-30°F to 130°F	-30°F to 130°F
	Humidity	20% - 85% RH, non condensing	20% - 85% RH, non condensing
Certification	Certification	ETL, FCC, LM80, LM79, DLC	ETL, FCC, LM80, LM79, DLC
	Material Usage	RoHS compliant; no mercury	RoHS compliant; no mercury
	Environment	Indoor / Outdoor	Indoor / Outdoor
	LED Class	L70 rated to 50,000 hours	L70 rated to 50,000 hours

Lighting layouts and spacing criteria available upon request

DIMENSIONS:



BEAM DISTRIBUTION:



DESIGNLIGHTS
CONSORTIUM

