

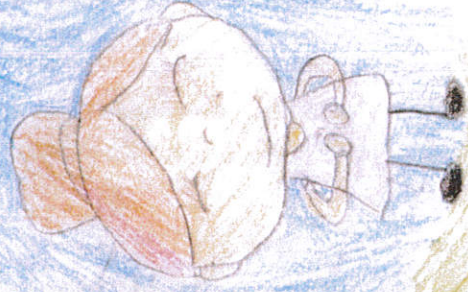
Jesse Smith Library Partnership

Keep

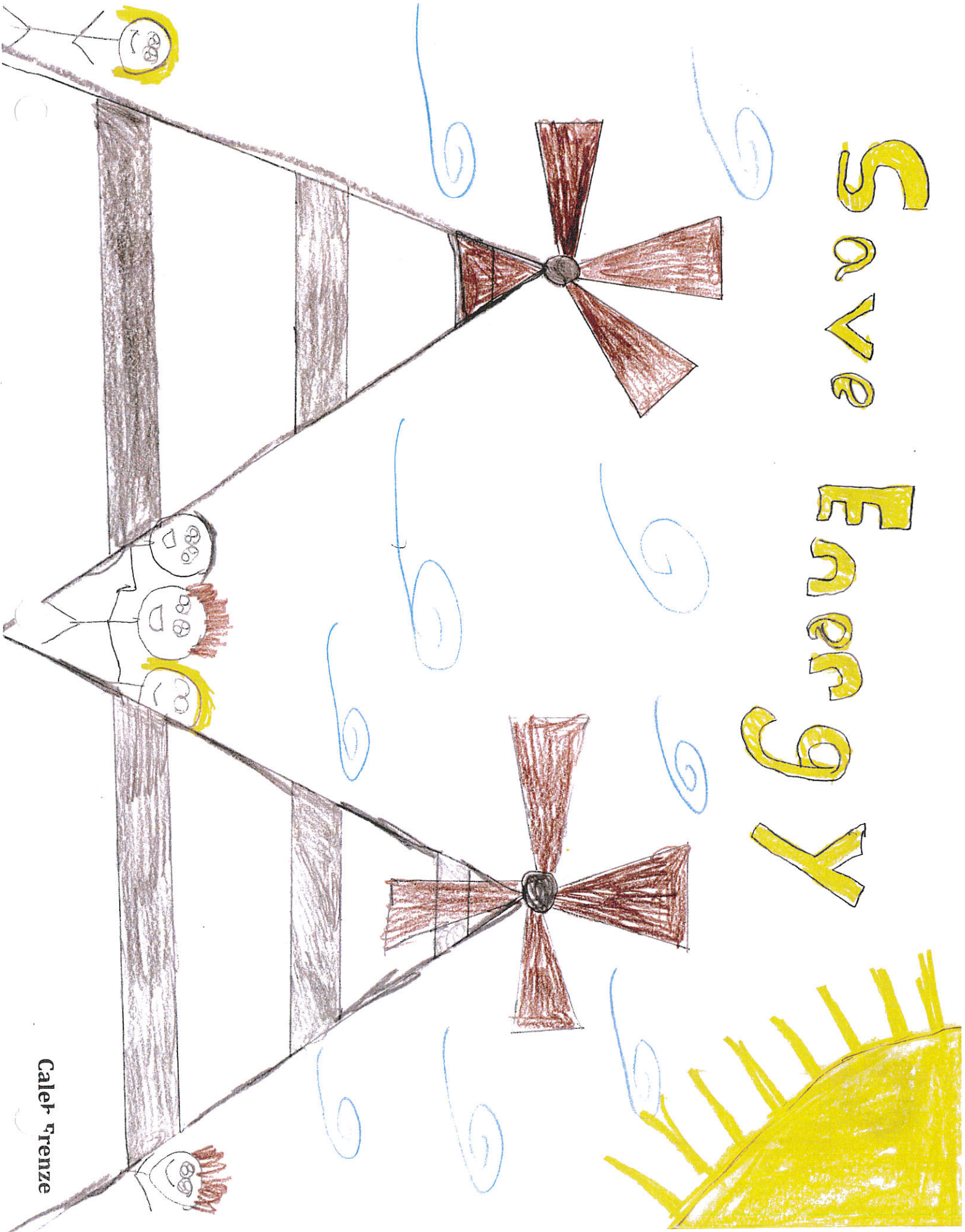
it clean



Recycle!



# Save Energy



Caleb Trenz



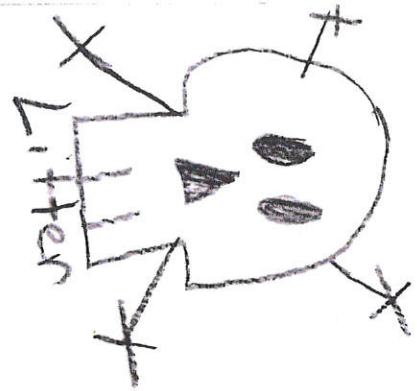
It's time to Recycle

When We Do Recycle

Jenna Lombardi



Don't

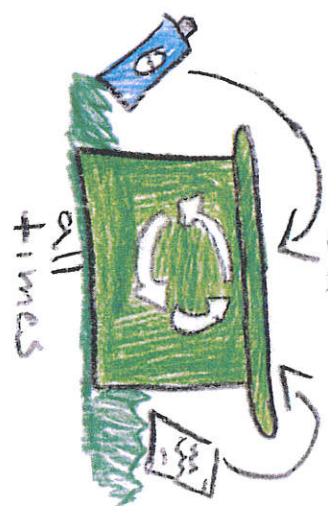


It's

Earth's

Day

Recycle  
out



"Just clean, your town and don't  
leave a mess"

Zachary Richard

# SAVE ME



Save Me! We are wasting energy!

Unplug me when done using. Every 5.1



It's me  
Ooo when  
room I'd  
leave the  
lights!

save  
energy  
and you  
could  
save  
cash as  
well!

I . a . S

Issue  
has  
very

It's  
me  
Ooo  
when  
room  
I'd  
leave  
the  
lights!

# EMERGENCY

Kristen Romano

Never litter  
in the woods  
there are animals



When you see  
you dont think  
fill because  
a land dump  
its not people  
build a mountain  
of trash and  
they put dirt  
to keep things  
away also so  
it doesnt fly  
away



Always  
recycle paper,  
cans, and plastics



If you  
dont recycle



If you  
do recycle



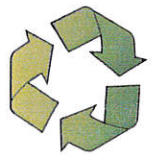


To the Beach

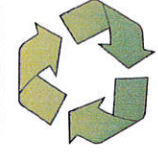
# June 2016



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7	8	9	10	11
12	13	14 Flag Day	15	16	17	18 Family Fair
19 Father's Day	20 Summer Begins	21	22	23	24	25 Rain Date Family Fair
26	27	28	29	30		



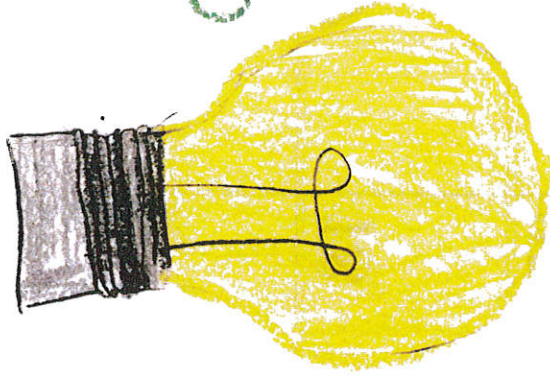
Recycle rigid plastic, tires, metal, yard waste, e-waste, mattresses,  
 excess single stream recyclables, large cardboard, textiles & TVs at the  
 Whipple Ave Recycling & Compost Facility.





Save

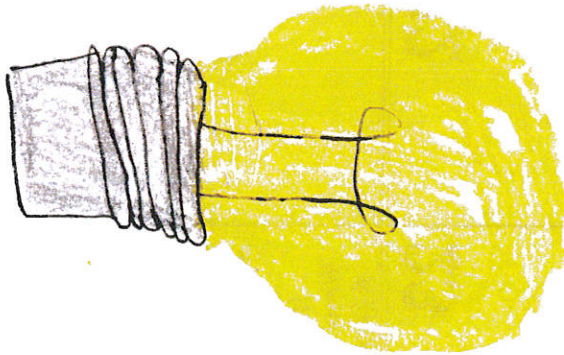
Energy!



Recycle



Save the  
Planet!

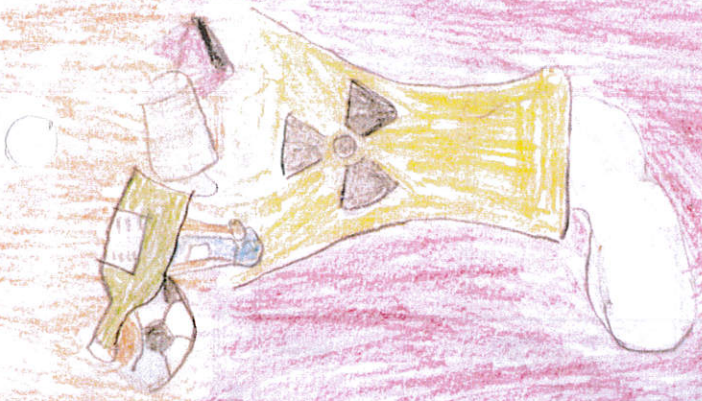


Recycle



Keep

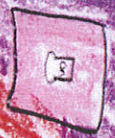
the clean



Recycle

Turn down the thermostat if it is too high!

# Energy

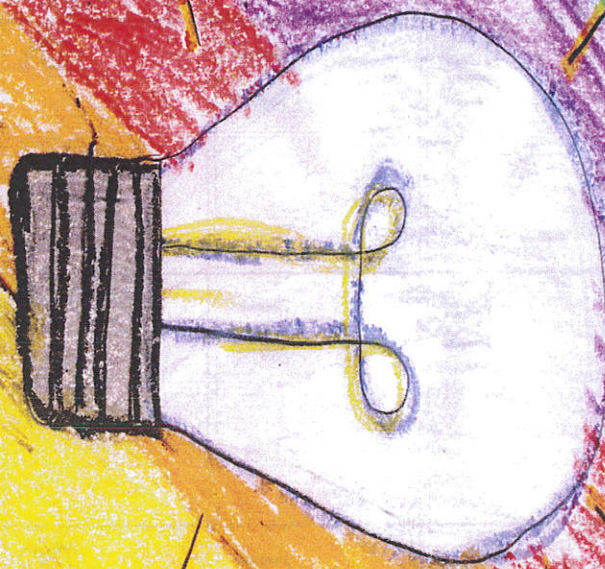


Walk, bike, or take the RITTA bus instead of riding a car!



SAVE ENERGY

Be solar powered cars!



SAVE ENERGY

Don't let the water flow

# Conservation!

Turn off lights the moment you leave!

Use solar panels more than any other light bulbs!

Recycle

Save the

World Be

green



# It's Time to You Recycle!



Madelynn Rose Keegan

# Pascoag Utility District Residential Incentives 2016

Product:	Rebate:
ENERGY STAR refrigerator/freezers/ clothes washer/dryers:	10% of the cost, \$75 maximum
ENERGY STAR dishwasher / air purifier:	10% of the cost, \$50 maximum
ENERGY STAR air conditioner:	10% of the cost, \$25 maximum
ENERGY STAR dehumidifier:	10% of the cost, \$20 maximum
ENERGY STAR compliant window, up to 10 windows:	\$15 per window, 10 windows max.
ENERGY STAR compliant door, up to 2 doors:	\$40 per door, 2 door maximum
ENERGY STAR heating system replacement:	10% of the cost, \$250 maximum
ENERGY STAR lighting fixtures/ ceiling & ventilation fans:	50% of the cost, \$50 maximum
ENERGY STAR electronics and office equipment:	15% of total cost, \$50 maximum
ENERGY STAR central air conditioners:	10% of total cost, \$200-300 maximum
Free Home Energy Audits with incentives:	10% of cost, up to \$100
New Construction Rebates:	\$520 maximum
ENERGY STAR Light bulbs CFLs or LEDs:	50% of the cost, \$50 maximum
ENERGY STAR Geothermal System	5% of the cost, \$300 maximum
Energy Star Qualified Electric Hot Water Heaters:	10% of the cost, \$150 maximum
Smart Power Strips:	25% of cost, \$25 maximum
Refrigerator and Freezer buy back:	\$50 & removal fee up to \$19
Energy Star Qualified Pool Pumps	10% of the cost, \$150 maximum

Pascoag Utility District has purchased several Kill A Watt® measuring devices which can be loaned out by the residence of Burrillville. They are available at the Jesse M. Smith Memorial Library in Harrisville, the Pascoag Ladies Library in Pascoag, and at the Pascoag Utility District's office. The Kill A Watt® meters allow you to find out what your appliances are costing you, and if they are worth keeping plugged in. It also allows you to calculate your electrical expenses by the day, week, month, or even an entire year.

\*\*\*All rebates are subject to funds availability \*\*\*  
Please see the rebate forms for criteria

All rebates will be applied to your active electric account. You can download the applications from our website @ [www.pud-ri.org](http://www.pud-ri.org) or you can come into the office to pick them up. Please bring in proof that the products are ENERGY STAR compliant and the original receipts.

# Pascoag Utility District Commercial Incentives 2016

**Product:**

ENERGY STAR office equipment:

**Rebate:**

25%, up to a maximum \$50

ENERGY STAR Standard Appliances:

ENERGY STAR refrigerator/freezers/ clothes washer/dryer:

10% of the cost, \$75 maximum

10% of the cost, \$50 maximum

10% of the cost, \$25 maximum

10% of the cost, \$20 maximum

\$15 per window, 10 windows max.

ENERGY STAR dishwasher / air purifier:

ENERGY STAR air conditioner:

ENERGY STAR dehumidifier:

ENERGY STAR compliant window, up to 10 windows:

ENERGY STAR Commercial Appliances:

10% of cost, up to a max rebate \$350.

(Commercial Dishwashers, Commercial Fryers, Commercial Ice Machines, Commercial Hot Food Holders, Commercial Griddles, Commercial Ovens, Commercial Steam Cookers, Commercial Clothes Washers, Vending Machines).

Lighting and Lighting control rebates are available on commercial and industrial accounts - please call the District office for approval and to check on the availability of funds before starting a lighting project. The rebates are 60% on a retrofit lighting project and 40% on a new lighting project.

The District also offers Incentives on the following:

- HVAC Systems
- High Efficiency Motors
- Compressed Air
- Variable Speed Drives

\*\*\* All rebates are subject to funds availability. Please contact the District office before starting a project.  
All rebates will be applied to your active electric account.



9th Annual Green Festival



RAIN DATE: SEPTEMBER 29<sup>th</sup>

10-2PM



9TH ANNUAL

SEPTEMBER 19, 2015

# GREEN FESTIVAL

Pascoag Utility District and the Town of Burrillville's Parks and Recreation Department are teaming up to hold the 9th Annual Green Festival on Saturday, September 19, 2015 from 10:00-2:00 PM at the Stillwater Mill Center -100 Tinkham Lane, Harrisville RI 02830. The event is free to the public!

The Festival has something for everyone! Learn about local products and ideas that will help you conserve energy and create a more sustainable lifestyle. There will be free crafts, face painting and bucket truck rides for children.

Jesse Smith Library, The Burrillville Farmers Market and re:discover will be joining in on the fun with activities throughout the day!

The Noble Knots Food Truck & Annabel's Ice Cream will be on site offering lunch and snacks! Musician, Jimmy Joel will be with us performing hits from the 60's and 70's.

**First 500 attendees get free lunch bags!**

**Save the Date!**

## **Free Workshops!**

### **Home Composting for Everyone 10:00-10:45AM**

Composting at home is a great way to turn food scraps and leaf/yard waste into a rich soil amendment for lawns and gardens. It also diverts those materials from the landfill where they would not break down easily. Join the RIRRC for an informational session on some easy steps you can take to incorporate composting into your daily routine!

### **Renewable Energy Workshop 11:00-11:45AM**

Energy Fellows from the University of Rhode Island Outreach Center will present on renewable energy production and technologies pertaining to the Ocean State. This presentation will provide attendees with an overview of sources of renewable energy as well as local applications. This will be followed by an interactive and informative discussion about common myths and misconceptions surrounding renewable energy, as well as information on programs and incentives available to attendees for adopting renewable energy in their homes or small businesses. Audience members will leave with an inclusive understanding of available renewable energy sources and opportunities within Rhode Island, along with a passion of energy conservation and sustainability!

### **Beekeeping with Betty Mencucci 12:00-12:45PM**

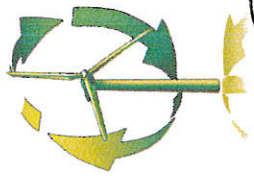
Ever wondered if you might make a good beekeeper? Stop by Betty's workshop as she gives an overview of the exciting world of beekeeping. Betty's Bee Farm, located in Burrillville, has 20 colonies of bees. She also teaches beginner Beekeeping each spring for the Rhode Island Beekeepers Association.



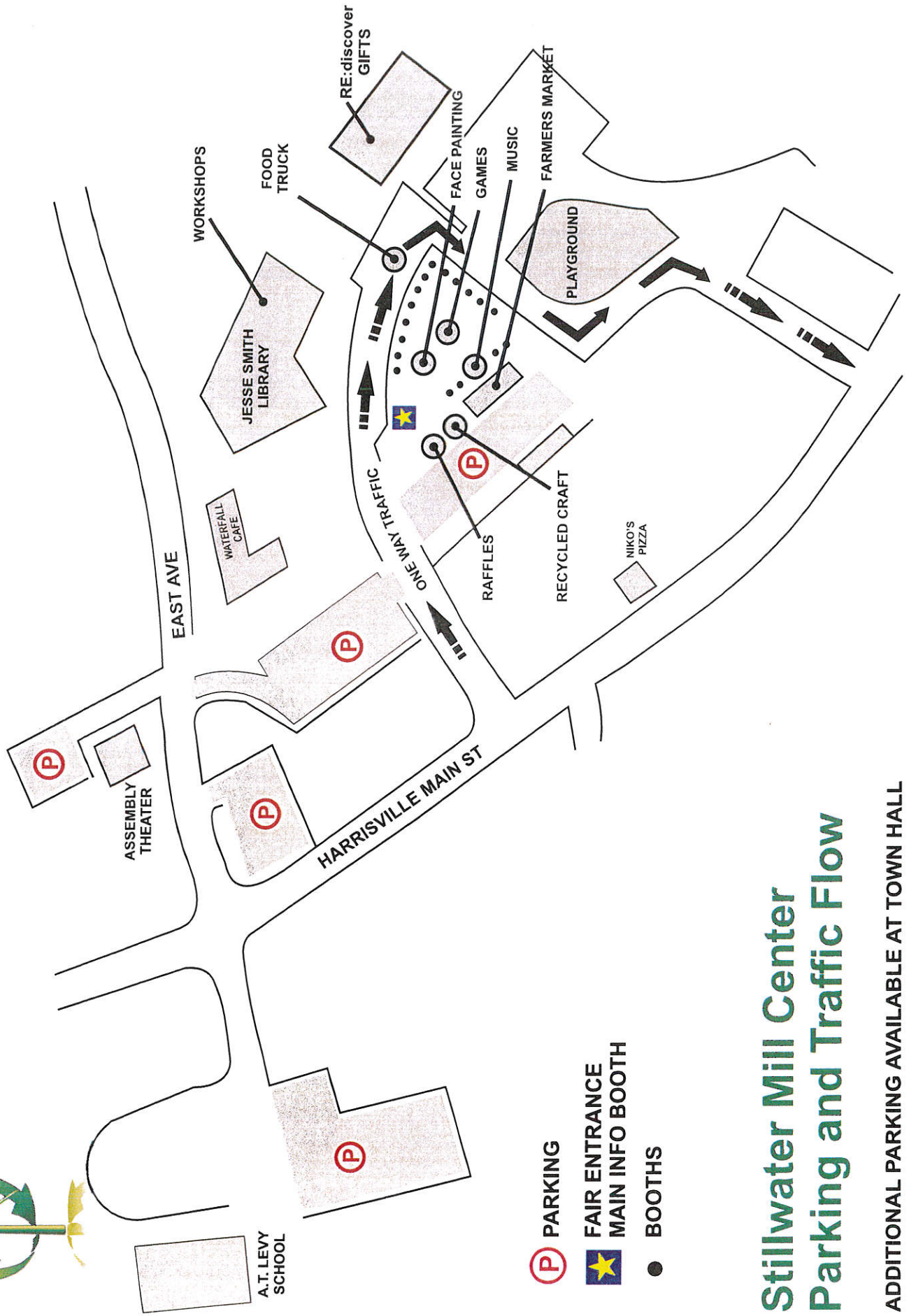
## Vendors that attended the 9<sup>th</sup> Annual Green Festival 2015

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1. Burrillville Parks and Recreation/Recycling
2. Pascoag Utility District
3. Energy Star
4. Energy New England
5. Jesse Smith Library
6. Burrillville Land Trust
7. Pascoag Library
8. First Universalist Church
9. Betty's Bee Farm
10. Burrillville Historical Society
11. RI Forest Conservator's Organization
12. RI Envirothon
13. RI Resource Recovery
14. URI Outreach Center
15. URI Master Gardener's
16. URI Water Quality
17. Maloney Properties
18. Claude's Cycles
19. Rescom Exteriors
20. Klinkman Solar and Toxic Information Project
21. Celadon Road
22. Care Technologies
23. Healthy Homes
24. Ava Anderson
25. Malloy Biodiesel
26. Tower Gardens



# 9th Annual Green Festival 2015



## Stillwater Mill Center Parking and Traffic Flow

ADDITIONAL PARKING AVAILABLE AT TOWN HALL

Met |  
729.1005 | 1005  
1 St, Pawtucket |  
etri.com

phy's Law |  
724.5522 | 2  
ge St, Pawtucket |  
hywri.com

s Care |  
728.6475 | 43  
d St, Pawtucket

s Restaurant |  
766.2122, | 1204  
d Hill Road,  
h Smithfield |  
z.thepinesrestau-  
com

h's Diner  
753.9543 | 148  
re St, Worcester,  
|  
pace.com/ralphs-

ie D's Bar &  
| 401.658.2591 |  
fanville Hill Rd,  
berland | stevie-  
om

le Ronnie's Red  
rn | 401.568.6243 |  
Victory Hwy,  
illville | uncleron-  
edtavern.com

**INSIDE**



BT  
nine-month-old Beagle  
looking for a yard to  
ter legs  
**BITTERS, PAGE 4**

Thursday, September

out," she said.

# It's easy being green at annual Pascoag festival

By JOSEPH FITZGERALD  
jfitzgerald@woonsocketcall.com

**BURRILLVILLE** — Beekeeping, composting and renewable energy will be the focus of the three workshops being offered at the 9th Annual Green Festival, a family festival that is all about having fun while learning about ways to live a more environmentally conscious lifestyle.

The first 45-minute workshops are a new addition to the annual festival, which kicks off this year on Saturday, Sept. 19 from 10 a.m. to 2 p.m. at the Stillwater Mill Center, 100 Tinkham Lane, Harrisville. The rain date is Sept. 26.

Insulated lunch bags packed with energy saving information, recycling tips and much more will be given to the first 500 attendees.

Sponsored by the Pascoag Utility District and the Burrillville Parks and Recreation Department, the festival is a day for children to enjoy fun activities, games and bucket truck rides, while adults can learn about conserving energy and creating a more sustainable lifestyle. The festival will feature more than 40 vendors, including the Burrillville Farmers Market, which will be offering local fruits and vegetables.

"We're excited to be co-sponsoring the 9th Annual Green Festival with the

Town of Burrillville's Parks and Recreation Department," said Pascoag Utility District General Manager Michael Kirkwood. "It's a great community supported event that provides folks in the northern Rhode Island area access to energy conservation, recycling and sustainable living information. We're looking forward to another big turnout this year, especially with our new



Submitted photo

Above, Pascoag Utility District employees Linda LaPorte, left, and Harle Round, join Max the Recycling Man at last year's annual Green Festival. This year's festival kicks off on Saturday, Sept. 19 from 10 a.m. to 2 p.m. at the Stillwater Mill Center, 100 Tinkham Lane, Harrisville. Below, Betty Mencucci, of Harrisville, will be conducting a beekeeping workshop.

offering of free workshops."

The three workshops will be held in the Jesse Smith Library's community room.

The first workshop, Home Composting for Everyone, will be held from 10 to 10:45 a.m. Rhode Island Resource Recovery Corporation officials will be on hand to show attendees how to turn food scraps and leaf and yard waste into a rich soil amendment for lawns and gardens. Composting also diverts materials from the landfill where they would not break down easily.

The second workshop on renewable energy from 11 to 11:45 a.m. will be conducted by Energy Fellows from the University of Rhode Island Outreach Center, which will focus on renewable energy production and technologies pertaining to the Ocean State.



The workshop will provide attendees with an overview of sources of renewable energy as well as local applications.

This will be followed by

an interactive and informative discussion about common myths and misconceptions surrounding renewable energy, as well as information on programs and incen-

tives available to attendees for adopting renewable energy in their homes or small businesses. Audience members will leave with an inclusive understanding of available renewable energy sources and opportunities within Rhode Island, along with a passion of energy conservation and sustainability.

The third workshop, Beekeeping with Betty Mencucci, will be held from noon to 12:45 p.m. Mencucci, owner of Betty's Bee Farm in Burrillville, has 20 colonies of bees. She also teaches beginner beekeeping classes each spring for the Rhode Island Beekeepers Association.

The festival will also feature various organizations, crafters and the Noble Knots food truck, which will be making the drive from Providence to cook up delicious food on their artisan pretzel rolls.

Annabel's Ice Cream will also be onsite with refreshing treats and musician Jimmy Joel will be performing hits from the 60's and 70's.

A raffle will be held with donated items from various local businesses and green vendors. All proceeds from the raffle will be donated to the Burrillville Weekend Snack Pack Program, a non-profit joint effort between the Burrillville Parks and Recreation, Burrillville Lions Club, Jesse M. Smith Memorial Library, and Berean Baptist Church, that provides food for needy Burrillville youth.

For more information on the festival, contact the Pascoag Utility District at (401) 568-6222 x 223 or the Burrillville Parks and Recreation Department at (401) 568-9470 or visit [www.pudri.org/greenfestival](http://www.pudri.org/greenfestival).

Follow Joseph Fitzgerald on Twitter @jofitz7

## TEN NO COST/LOW COST TIPS TO SAVE ON YOUR ENERGY BILL

- 1) **Bundle up your home** - Hidden gaps and cracks in the home can add up to as much air-flow as an open window. The more heat that escapes, the more cold air gets in, causing your heating system to work harder, use more energy, and costing you energy \$\$'s. Start by sealing air leaks and pay special attention to your attic and basement, where the biggest gaps and cracks are often found. Weatherizing can be done economically using materials such as caulking, weatherstripping, and insulation...where needed.
- 2) **Put on a sweater and save a few dollars** - For every notch you raise the thermostat, your bill increases up to 3%. Try reducing the temperature if possible. Turning down the thermostat by 10 degrees at night or when the house is unoccupied can save as much as 20% of heating costs. But remember, small children and the elderly in particular may be vulnerable to problems at lower temperatures, so reduce the temperature gradually to give your body time to adjust to the new temperature level.
- 3) **Let the sunshine in** - Be sure to open draperies and blinds on sunny days to let the sunlight warm your home. But remember to close them at night and on overcast days.
- 4) **Don't light up the whole room** - Most of us know to turn off the lights when we leave a room. However even while in a room, if a small reading lamp can be used, just light up your area instead of the whole room. Of course also replacing incandescent light bulbs with compact fluorescents (CFL's) or light emitting diodes (LED's) can save considerably over the life of the bulb.
- 5) **Get a heating system tuneup** - A heating and cooling professional can perform an annual inspection and routine maintenance to make sure your furnace is operating at peak performance.
- 6) **Keep the damper closed on your fireplace when not in use** - If you keep the damper open, all the heat you are paying for is going right out the chimney. Remember if the damper is not closed; it's like having a window open in the middle of winter....a waste of energy, money and not very comfortable....brrrrr.
- 7) **Reduce hot water temperature** - Set your water heater to the "normal" setting of 120 degrees, unless the owner's manual for your dishwasher requires a higher setting. You could save 7-11% of water heating costs.
- 8) **Shorten showers** - Simply reducing that lingering time by a few minutes can save hundreds of gallons of hot water per month for a family of four. Showers account for 2/3 of your water heating costs. Cutting your showers in half can reduce hot water costs by 33%.
- 9) **Discontinue the use of that older second refrigerator** - Got an old beer fridge in the basement or worse, in the garage? Unplug it and make the trek to your kitchen refrigerator. It will be good for your heart and your energy bill.
- 10) **Make use of your oven's leftover heat** - An oven will keep its heat for about 15 - 20 minutes after it is turned off. Use this heat to keep things such as second courses, desserts, or anything else that may need to be kept warm.

**BROUGHT TO YOU BY PASCOAG UTILITY DISTRICT**

## Tips on Weatherstripping

Warmed or air-conditioned air mixes with outside air through gaps in your home's thermal envelope—exterior walls, windows, doors, the roof, and the floors. These kinds of air leaks can waste large amounts of energy. Weatherstripping and caulking is an effective way to rid your home of costly drafts, saving you energy and money.

Most experts agree that the time and money invested in weatherstripping and caulking windows and doors can pay off faster than almost any other home improvement you can make, even when your home is well insulated. This tip sheet will focus on weatherstripping in particular.

Besides keeping out moisture, wind, and hot or cold air, weatherstripping will block entry of dust and noise, resulting in a cleaner, quieter home. Both weatherstripping and caulking are economical and, usually do-it-yourself jobs.

Loose fitting windows should be weatherstripped to keep warm air from escaping and make you feel more comfortable. The most vulnerable windows are swinging windows, and double hung windows. Some effective types of weatherstripping are spring-plastic, metal-backed vinyl and adhesive-backed foam.

Weatherstripping around exterior doors can be checked with a flashlight. From outside the closed door, move the flashlight slowly around the door edge. A "helper" inside the house can see the light shining in where weatherstripping is needed.

To determine how much weatherstripping is needed, add the perimeters of all windows and doors to be weatherstripped. Then add about 5-10 percent to accommodate any waste. Also take into consideration that weatherstripping comes in varying depths and widths.

Weatherstripping supplies and techniques range from simple to the technical. Consult the instructions on the weatherstripping package. Here are a few basic guidelines:

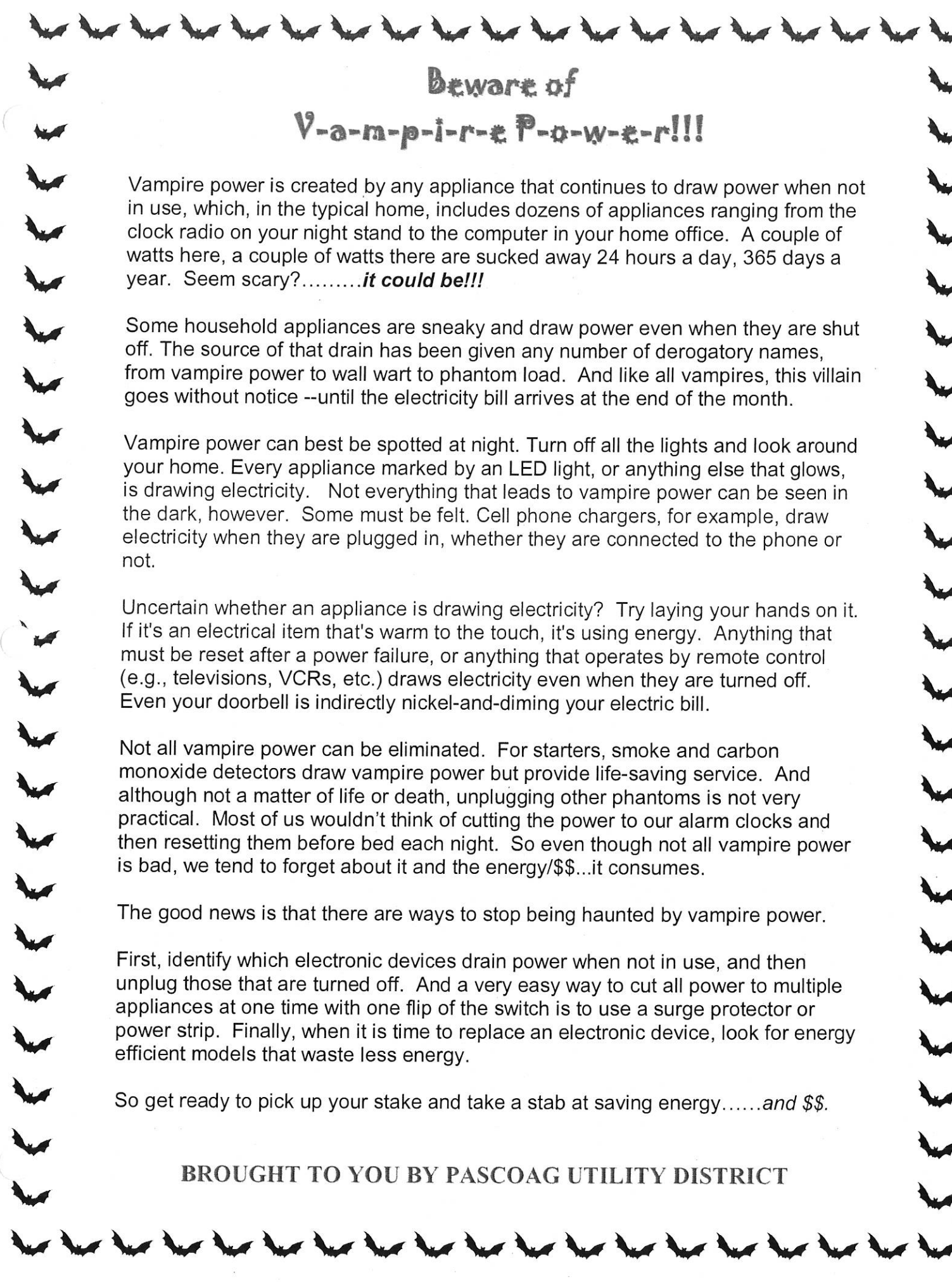
- ✓ *Weatherstripping should be applied to clean, dry surfaces in temperatures above 20 degrees F.*
- ✓ *Measure the area to be weatherstripped twice before you cut anything.*
- ✓ *Apply weatherstripping snugly against both surfaces. The material should compress when the window or door is shut.*

*Brought to you by Pascoag Utility District*



**PASCOAG**  
UTILITY DISTRICT

For more information on Energy Conservation, please call the Energy Hotline at: 1-888-772-424



## Beware of V-a-m-p-i-r-e P-o-w-e-r!!!

Vampire power is created by any appliance that continues to draw power when not in use, which, in the typical home, includes dozens of appliances ranging from the clock radio on your night stand to the computer in your home office. A couple of watts here, a couple of watts there are sucked away 24 hours a day, 365 days a year. Seem scary?.....**it could be!!!**

Some household appliances are sneaky and draw power even when they are shut off. The source of that drain has been given any number of derogatory names, from vampire power to wall wart to phantom load. And like all vampires, this villain goes without notice --until the electricity bill arrives at the end of the month.

Vampire power can best be spotted at night. Turn off all the lights and look around your home. Every appliance marked by an LED light, or anything else that glows, is drawing electricity. Not everything that leads to vampire power can be seen in the dark, however. Some must be felt. Cell phone chargers, for example, draw electricity when they are plugged in, whether they are connected to the phone or not.

Uncertain whether an appliance is drawing electricity? Try laying your hands on it. If it's an electrical item that's warm to the touch, it's using energy. Anything that must be reset after a power failure, or anything that operates by remote control (e.g., televisions, VCRs, etc.) draws electricity even when they are turned off. Even your doorbell is indirectly nickel-and-diming your electric bill.

Not all vampire power can be eliminated. For starters, smoke and carbon monoxide detectors draw vampire power but provide life-saving service. And although not a matter of life or death, unplugging other phantoms is not very practical. Most of us wouldn't think of cutting the power to our alarm clocks and then resetting them before bed each night. So even though not all vampire power is bad, we tend to forget about it and the energy/\$\$.it consumes.

The good news is that there are ways to stop being haunted by vampire power.

First, identify which electronic devices drain power when not in use, and then unplug those that are turned off. And a very easy way to cut all power to multiple appliances at one time with one flip of the switch is to use a surge protector or power strip. Finally, when it is time to replace an electronic device, look for energy efficient models that waste less energy.

So get ready to pick up your stake and take a stab at saving energy.....and \$\$.

**BROUGHT TO YOU BY PASCOAG UTILITY DISTRICT**

## ***Fall into Energy Efficiency***

Summer is winding down, and the seasons aren't the only thing in transition. Your energy bills are about to change too. Soon the leaves will be falling, there will be frost on the pumpkin, and nights will get downright chilly.....and behind that another cold winter and higher energy bills.

Dodge those drafts... even simple leaks as a result of cracks and gaps in the home can waste 5% to 30% of your energy use according to the U.S. Department of Energy. It pays to seal up leaks with caulking and weather-stripping. Filling cracks with caulk and adding weatherstripping to windows and doors saves money and increases energy efficiency by keeping cold winds outside and warm air inside; your furnace won't have to work so hard to heat your home because heat is not escaping through cracks and gaps.

When cool weather hits, remove your portable air conditioners and window units. Store them carefully and clean them well. If you can remove the unit, make sure any gaps, cracks, or holes are sealed when you close the window. If you are not able to remove the A/C from the window, make sure it is well insulated and covered.

Remove screens from windows. For double insulated windows, or gas filled windows this may not be necessary. For older homes, take down the screen window or slide it out of the way, and replace it with the "storm" windows. Make sure the storm windows are in good working order.

Now is the time for a furnace tune up. Call or check around. This is the season when there may be tuning specials. Get a deal on a tune up today.

Run fans in reverse. Most people think of fans only when they want to be cool, but many ceiling units come with a handy switch that reverses the direction of the blades. Counterclockwise rotation produces cooling breezes while switching to clockwise makes it warmer: air pooled near the ceiling is circulated back into the living space, cutting your heating costs as much as 10%

Service or clean fireplaces. Make sure they are in working order, including gas or electric fireplaces

Adjust the thermostat for winter or colder weather usage when the time is right. Don't turn on your furnace until all the windows in your home are closed and locked/sealed!

***Brought to you by Pascoag Utility District***



**PASCOAG**  
UTILITY DISTRICT



*Processed*

*Vendor 15*

# Lighting Systems & Sensors Application 2015 Retrofit

613260  
720  
13,980  
HERE WITH YOU. HERE WITH YOU.

ALL FIELDS ON THIS PAGE ARE REQUIRED TO COMPLETE YOUR APPLICATION.

## CUSTOMER/ACCOUNT HOLDER INFORMATION

COMPANY NAME <i>Burrillville School Dept</i>	CONTACT PERSON <i>Dave Force</i>	APPLICATION DATE
INSTALL SITE <i>Austin T. Levy</i>	PHONE	FAX NUMBER
EMAIL ADDRESS <i>ForceD@BSD-RI.net</i>	SQUARE FEET (COVERED BY THIS APPLICATION)	
STREET ADDRESS	CITY	STATE ZIP
MAILING ADDRESS (IF DIFFERENT) <i>2300 Bronco Highway</i>	CITY	STATE ZIP
ELECTRIC COMPANY NAME	ELECTRIC ACCOUNT NUMBER OR COPY OF ELECTRIC BILL	
GAS COMPANY NAME	GAS ACCOUNT NUMBER OR COPY OF GAS BILL	

BUILDING TYPE (PLEASE PLACE "X" IN APPROPRIATE BALLOT BOX)

<input type="checkbox"/> ASSEMBLY	<input type="checkbox"/> FAST FOOD	<input type="checkbox"/> HOTEL	<input type="checkbox"/> MULT. STORY RETAIL	<input type="checkbox"/> RELIGIOUS	<input type="checkbox"/> SMALL RETAIL
<input type="checkbox"/> AUTOMOTIVE	<input type="checkbox"/> FULL SERVICE RESTAURANT	<input type="checkbox"/> LARGE REFR. SERVED SPACE	<input type="checkbox"/> MULTIFAMILY HIGH-RISE	<input type="checkbox"/> K-12 SCHOOL	<input type="checkbox"/> UNIVERSITY
<input type="checkbox"/> BIG BOX	<input type="checkbox"/> GROCERY	<input type="checkbox"/> LARGE OFFICE	<input type="checkbox"/> MULTIFAMILY LOW-RISE	<input type="checkbox"/> SMALL OFFICE	<input type="checkbox"/> WAREHOUSE
<input type="checkbox"/> COMMUNITY COLLEGE	<input type="checkbox"/> HEAVY INDUSTRIAL	<input type="checkbox"/> LIGHT INDUSTRIAL	<input type="checkbox"/> OTHER		
<input type="checkbox"/> DORMITORY	<input type="checkbox"/> HOSPITAL	<input type="checkbox"/> MOTEL			

## PAYMENT METHOD (PAYEE MUST SUBMIT A W-9 FORM)

PAYMENT TO: <input type="checkbox"/> CUSTOMER <input type="checkbox"/> VENDOR/INSTALLER	CUSTOMER - TAX ID# (REQUIRED)	VENDOR/INSTALLER - TAX ID# (REQUIRED IF RECEIVING PAYMENT)
CHECK PAYABLE TO:	CUSTOMER COMPANY TYPE: <input type="checkbox"/> INC. <input type="checkbox"/> NOT INCORP. <input type="checkbox"/> EXEMPT	VENDOR COMPANY TYPE: <input type="checkbox"/> INC. <input type="checkbox"/> NOT INCORP. <input type="checkbox"/> EXEMPT

## VENDOR INFORMATION

AUTHORIZED VENDOR/INSTALLER	CONTACT NAME
STREET ADDRESS	CITY STATE ZIP
PHONE	EMAIL ADDRESS
DATE	AUTHORIZED VENDOR/INSTALLER SIGNATURE (NOT APPLICABLE IF CUSTOMER IS PAYEE) <b>X</b>

## CUSTOMER ACCEPTANCE OF TERMS

PRE-INSTALLATION <input type="checkbox"/> I CERTIFY THAT ALL STATEMENTS MADE IN THIS APPLICATION ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT I HAVE READ AND AGREE TO THE TERMS AND CONDITIONS ON THE BACK OF THIS FORM.	ANTICIPATED COMPLETION DATE
DATE: <i>20150825</i>	PRINT NAME: <i>William Guertin</i>
POST-INSTALLATION <input type="checkbox"/> I CERTIFY THAT I HAVE SEEN THE ENERGY EFFICIENCY MEASURES THAT HAVE BEEN INSTALLED AND I AM SATISFIED WITH THEIR INSTALLATION.	AUTHORIZED SIGNATURE: <i>[Signature]</i>
DATE: <i>20150825</i>	PRINT NAME: <i>William Guertin</i>
	AUTHORIZED SIGNATURE: <i>[Signature]</i>

Table 1C: Retrofit Lighting Systems Inventory Worksheet

Building and Room Identification (Installation Site): Arden T. Long School

Ex.	Location	Qty	Lamp/Ballast Description	*Device Code	Existing Watts per Fixture/Device	Product Code (Table 1A)	Qty	Lamp/Ballast Description	*Device Code	Proposed Watts per Fixture/Device	**Annual Operating Hours	Unit Incentive \$	Total Incentive \$
1	Lobby-East Entrance	4	4' 3 lamp T12 Magnetic	3F40SEM	110 watts	12	4	4' 2 lamp 28 watt RW T8 w/ LP Electronic Ballast	2F28EEL	42 watts	3,200 hours	\$15	\$60
2	Classrooms 156	156	8' 2 lamp T12	2F96SES	138	88B	117	4' LED	11050	50	2037	85	9945
3	1, 2, 3, 4, 5												
4	8, 9, 10, 11, 12												
5	13, 17, 18												
6	Classrooms 6, 7, 14, 15	36	4' 2 lamp T12	2F96SEM	70	88B	36	4' LED	11050	50	2037	85	3060
7													
8													
9	Room 16	3	8' 2 lamp T12	2F96SES	138	88B							
10		3	4' 2 lamp T12	2F40SES	80	88B	3	4' LED	11050	50	2037	85	255
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
<b>Total Requested Incentive (this page):</b>												<b>13760</b>	

NOTE: An electronic version (Excel) of this sheet must be submitted for inventories exceeding this page.  
 \* The Device Code list is available at <https://www.1.nationalgridus.com/files/AddedPDF/POA/RILightingRetrofit1.pdf>.  
 \*\* Facility lighting must average a minimum of 2,000 hours per year, except Municipal Facilities who must contact their Program Administrator for more information on eligibility requirements.

Lighting Systems & Sensors, 2015 Retrofit Program RI Page 9 of 12

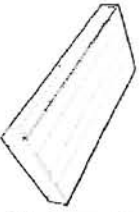







Efficiency@nationalgrid.com  
 www.nationalgridus.com/energyefficiencyservices

1-800-787-1706 / Fax: 1-815-460-9803

40 Sylvan Road, Waltham, MA 02451-1120

Rev. 09/29/2015

Table 1A: Lighting Systems Eligibility and Incentive Levels (Complete Table 1C for Lighting System Installations)

Product Code	Measure Description	Per Fixture Incentive	Eligibility Criteria	Min Watts Saved	Image
32 *	High Efficiency Fluorescent 2 lamp Retrofit Kits- 2x2 and 2x4	\$25	Overall fixture efficiency must be > : -80% for 2x4 parabolic retrofit kit and advanced glare reducing diffuser retrofit kit with two T8 or T5 lamps; -80% for 1x4 parabolic retrofit kit and advanced glare reducing diffuser retrofit kit with one or two T8 or T5 lamps -80% for 2x2 parabolic retrofit kit and advanced glare reducing diffuser retrofit kit with two T8, T5, or T5HO (reduced wattage biax lamps are eligible- 28 watts or less)	27	
34 *	Advanced Fluorescent Fixtures 2x2, 1x4 or 2x4	\$35	Overall fixture efficiency must be > : -85% for 2x4 advanced glare reducing diffuser fixture with one or two T8 or T5 lamps, or one T5HO lamp; -80% for 1x4 advanced glare reducing diffuser fixture with one or two T8 or T5 lamps, or one T5HO lamp. -80% for 2x2 advanced glare reducing diffuser fixture with one or two T8, T5, T5HO lamps (reduced wattage biax lamps are eligible- 28 watts or less)	33	
84	LED Track or Mono-Point Directional Fixtures	\$30	Integral LED or Mono-Point mounted track fixtures. Eligible fixtures are required to be listed by Design Lights Consortium and must meet DLC Technical Requirements #11	30	
88A	LED Interior 1x4, 2x2 and 2x4 Fixtures and LED Retrofit Kits	\$70	LED Interior 1x4, 2x2 and 2x4 Fixtures. <b>Retrofit kits are eligible for this incentive.</b> Eligible fixtures are required to be listed by the Design Lights Consortium and must meet DLC Technical Requirements #15, #16, #17 or if a retrofit kit #31, #32, #33	27	
88B	LED Interior 1x4, 2x2 and 2x4 Fixtures	\$85	LED Interior 1x4, 2x2 and 2x4 Fixtures <b>with opportunity for increased savings with increased watts saved of more than 33 watts.</b> Retrofit kits are NOT eligible for this incentive. Eligible fixtures are required to be listed by the Design Lights Consortium and must meet DLC Technical Requirements #15, #16, #17	33	
88C	Adaptive LED Interior 1x4, 2x2, 2x4 Fixtures compatible with integral occupancy, photocell sensors and network controls, <b>measure code 63A</b>	\$100	Smart LED Interior Fixtures with integral occupancy, photocell sensors and network controls that are wirelessly configurable and adapt to use patterns. These systems require a remote control or a phone app to initialize, configure and commission. Must fill out table 1C & 1D. Eligible fixtures must meet DLC Technical Requirements #15, #16, #17	33	
89	LED Indirect or Indirect/Direct	\$80	LED Indirect or Indirect/Direct Fixtures. Eligible fixtures are required to be listed by the Design Lights Consortium and must meet DLC Technical Requirements #18, #19, #20. Retrofit kits are NOT eligible for this incentive.	33	
91	LED Linear Ambient, Wallwash/Wall Grazing Fixture	\$50	LED Linear Ambient, Wallwash/Wall Grazing Fixture, surface or recessed mounted. Retrofit kits are eligible for this incentive. Eligible fixtures are required to be listed by the Design Lights Consortium or must meet DLC Technical Requirements #21, #10	33	

Austin T Levy Scf  
LED Project Phase I

Existing	Qty	Unit watts	Total watts
	156	138	21,528
	63	70	4,410
	3	138	414
	3	50	150
	225		26,502
Proposed	117	50	5,850
	36	50	1,800
	3	50	150
	156		7,800
Reduction			18,702 KW
Reduction does not include savings from occupancy and daylight system			

3	Mrs. Paquedra	I
4	Ms. Mills	I
5	Mrs. O'Keefe	K
6a	Mrs. Abrahamson	K
6b	Ms. Bruckmann	I
7	Ms. Richmond	K
8	Mrs. Lucia	K
9	Mrs. Surprenant	I
10	Mrs. Crumer	K/I
11	Mrs. Houle	K
12	Mrs. MacIntyre	I
13	Ms. Gansel	K
14	Mr. Tucker	I
15	Mrs. Clark	K Resource
16a	Mrs. Patricia Zisko	Gr. 1 Resource
16b	Mrs. Boucher	K
17	Mrs. Ullom	K
18	Conference Room	N/A
19	Book Room	K/I
20	Mr. Phelan	Music
21	Mrs. Mueller	Art

**SPECIALISTS**

A	Book Closet	Book Closet
B	Mrs. Izzj	Reading Gr. 1
C	Mrs. Nelson	Reading K
D	Ms. Barretto	Phys. Ed.
E	Mrs. Trinque	Copy Room
F	Ms. Berner	Reading Recovery
G	Mrs. Proccocini	Psychologist
H	Mrs. Piantannunzi	Nurse
I	Ms. Baffoni	Library/Media Specialist
J	Ms. Larkin	Speech
K	OT/PT Room	OT/PT

Teacher Assistants

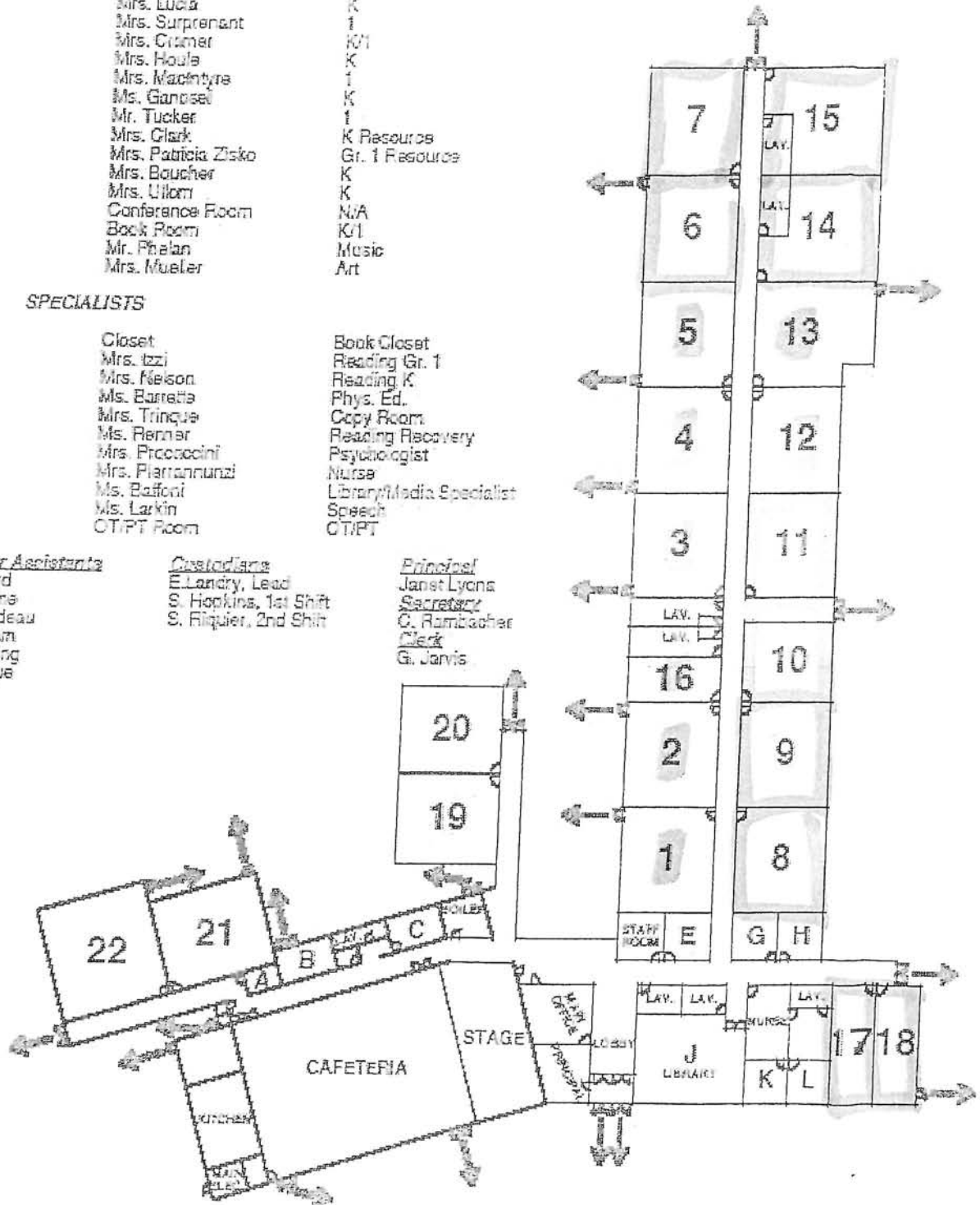
- B. Berard
- C. Greene
- M. Riendeau
- S. Sulham
- C. Topping
- S. Trinque

Custodians

- E. Landry, Lead
- S. Hopkins, 1st Shift
- S. Riquier, 2nd Shift

Principal

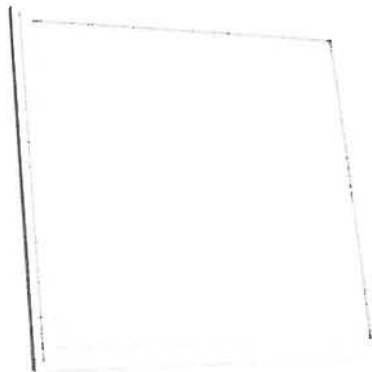
- Janet Lyons
- Secretary
- C. Rambacher
- Clerk
- G. Jarvis



# LED FLAT PANEL Indirect Lighting Series

## MHTL-PAN-SG SERIES

Project A. T. LEVY SCHOOL  
 Part Number \_\_\_\_\_  
 Quantity \_\_\_\_\_

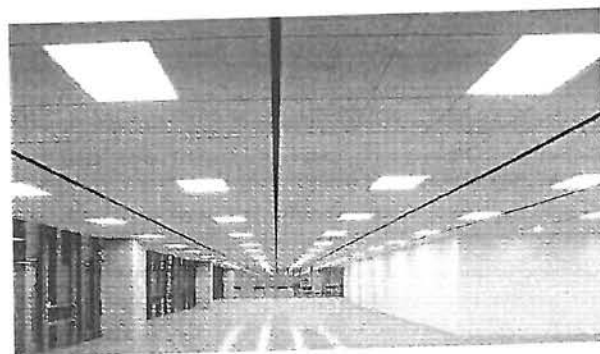


### APPLICATIONS

- Conference/Meeting Room
- Commercial Building
- Healthcare
- Office and School

### FEATURES

- 10-year Warranty
- >100,000 Hours Rated Lifespan
- L70 > 60,000 Hours
- No Glare, Soft and Even Light Output
- 1/2" Knock-outs
- Driver Access Panel On Top
- Standard Recessed Mount
- Optional Aircraft Cable for Suspended Mount
- Optional Surface Mount



### LED/DRIVER

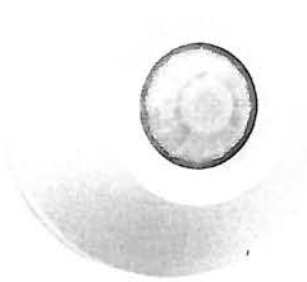
- Input Voltage: 120-277V
- Operation Frequency: 50Hz/60Hz
- Fixture Efficiency > 80%
- CRI > 83
- Surge Protection
- THD < 15% @120V
- Power Factor > 0.98 @120V
- CCT: 3000K - 5000K

Model	System Wattage	Lm/W	Lumen	Dimensions
MHTL-PAN-SG-2X2-40E	40W	>85	>3,400	23.65" x 23.65" x 2.35"
MHTL-PAN-SG-1X4-40E	40W	>85	>3,400	11.75" x 47.3" x 2.35"
MHTL-PAN-SG-2X4-50E	50W	>85	>4,200	47.3" x 23.65" x 2.35"

 Manufactured in the USA

Toll Free 888-511-7780 • [www.mhtlighting.com](http://www.mhtlighting.com)





# OccuSwitch Classic

## Self-Contained Daylighting Occupancy Sensor LRM2376

The OccuSwitch Classic Self-Contained Daylighting Occupancy Sensor offers Passive Infrared (PIR) occupancy detection and photocell control of 0-10VDC dimmable ballasts. The LRM2376 is an effective solution for areas where both occupancy and daylight need to be considered in the control scenario. With an integrated line switching relay, the LRM2376 is perfect for applications where locating a power pack is difficult, such as retrofitting rooms with concrete or inaccessible ceilings.

The LRM2376 occupancy sensor detects changes in the infrared energy given off by occupants as they move within the field-of-view. The LRM2376 photocell maintains the total room light level by controlling levels of 0-10VDC dimmable ballasts. The photocell has full On/Off control the load during periods of occupancy. There is also a second occupancy time-out period that enables the lights to go to a dim setting before turning off. The sensor is line powered, switches line voltage, and requires no field calibration or sensitivity adjustments. An adjustable occupancy time delay ensures lights turn off if no occupancy is detected. This timer is factory set at 10 minutes, but is manually adjustable between 30 seconds and 20 minutes or it can be automatically adjusted by the sensor. Additionally, this sensor maintains statistics on total lamp on time and number of cycles.

### Features

- 100% Digital PIR detection, excellent RF immunity.
- 360° coverage pattern
- Photocell controlled dimming maintains constant light level.
- An additional occupancy time-out period enables lights to go to a dim setting before turning off.
- Auto set-point calibration for photocell
- No field calibration or sensitivity adjustments required
- Self-contained relay, no power pack needed.
- No minimum load requirements.
- 100 hour lamp burn-in timer mode and convenient test mode.

- Assembled in U.S.A.

### Applications

- Rooms with windows or skylights
- Retrofit projects

Job Information	Device Type #: _____
Job Name:	_____
Cat. No.:	_____
Notes:	

# PHILIPS

**Table 1D: Lighting Sensor Inventory Worksheet**

Building and Room Identification (Installation Site): Ashby T. Levy School


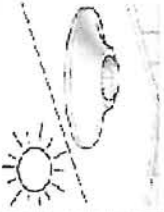

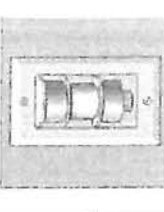



Ex.	Location of Sensors	Product Code (Table 1B)	Sensor Description	Qty of Sensors	# of Fixtures Controlled by Sensors	Fixture Description	Total Wattage per Sensor	Annual Hours of Operation	Unit Incentive \$	Total Incentive \$
1	Lobby-East Entrance	61	Occupancy Sensor Remote Mount	1	5	(4) 4' 2 lamp T8 Electronic & (1) 26 Watt Compact HW	196 watts	1040 hours	\$40	\$40
2	Classrooms	61	Occupancy Sensor Remote Mount	18	150	50w led	750	2032	40	720
3			Occ Sensor							
4										
5										
6										
7										
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18										
19										
20										

Total Requested Incentive (this page):

Note: An electronic version (Excel) of this sheet must be submitted for inventories exceeding this page.



Table 1B: Lighting Sensor Eligibility Criteria and Incentive Levels (Complete Table 1D for Lighting Sensor Installations). Sensors required to meet IECC 2012 code are not eligible.

Product Code	Measure Description	Per Sensor Incentive	Eligibility Criteria	Controlled Wattage	Image
61	Remote Mounted Occupancy Sensor	\$40	Comply with manufacturer's coverage recommendations. Ceiling mounted control. No manual "ON" overrides permitted.	55	
62	Daylight Dimming System and/or Occupancy Controlled Dimming System	\$15 (per fixture)	Ballast or LED drivers must be automatically controlled based on occupancy or daylight levels.	25 (per fixture)	
63A	Integral Fixture Mounted Dual Sensors and Controllers.	\$50 (per fixture)	Integral fixture mounted dual sensors able to be programmed, configured, networked, and addressable. With motion and photocell/ambient light sensors along with embedded programming. System to control motion response, illumination levels and scheduling. Only one incentive per networked fixture.	300W (Total wattage of networked group)	
64	Wall Mounted Occupancy Sensors	\$20	Occupancy Sensors must operate as Automatic On and Off. Sensors are wall mounted devices only. Vacancy Sensors with Manual ON/OFF options are allowed, however, manual "ON" overrides are not permitted.	25	
65 *	Photocell Sensors (exterior lighting systems on 24/7)	\$40	Photocell Sensor or Hard-Wired Astronomical Timer controlled for lighting systems that operate on 24 hours a day, 7 days a week (8,760 hours annually)	50	
65A *	Outdoor Integral Fixture Mounted Programmable Controller	\$75 (per fixture)	Outdoor integral controller (may be NEMA mounted). Controller to be programmable and able to report, monitor, schedule, and control lamp/driver illumination levels. Communication capable between fixtures and a centralized network. System would allow network communication to receive and transmit data for configuring groups, addressability, reporting and advanced scheduling. Only one incentive per networked fixture.	1000W (Total wattage of networked group)	
68	Integral Occupancy Sensor for High Bay Fixtures	\$25 (per fixture)	Fluorescent ballasts or LED drivers must be automatically controlled based on occupancy. Systems with manual "ON" or override switches are not eligible. Occupancy sensors must be integral to (built into) or permanently attached to each fixture.	70 (per fixture)	

\* This incentive does not apply to municipal street lighting. For municipal street lighting incentives, please contact your National Grid representative at 401-330-7834.

# Device Codes and Rated Lighting System Wattage Table Retrofit Program

**nationalgrid**  
HERE WITH YOU. HERE FOR YOU.

<b>BX</b>	Bias /Twin Tube Lamp	<b>ELIG</b>	Electronic Ballast	<b>STD</b>	Standard Ballast or Lamp
<b>HW</b>	Hard Wire Fixture	<b>LPF</b>	Low Power Ballast Factor < 0.80	<b>HO</b>	High Output Lamp
<b>EEMAG</b>	Energy-Efficient Magnetic	<b>HPF</b>	High Power Ballast Factor > 1.0	<b>VHO</b>	Very High Output Lamp
<b>EE</b>	Energy-Efficient Lamp	<b>1L</b>	LED Lighting Fixture & Driver		

EXISTING LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
<b>Incandescent Lamps</b>		
110015	15W INC	15
110020	20W INC	20
110025	25W INC	25
110034	34W INC	34
110036	36W INC	36
110040	40W INC	40
110042	42W INC	42
110045	45W INC	45
110050	50W INC	50
110052	52W INC	52
110054	54W INC	54
110055	55W INC	55
110060	60W INC	60
110065	65W INC	65
110067	67W INC	67
110069	69W INC	69
110072	72W INC	72
110075	75W INC	75
110080	80W INC	80
110085	85W INC	85
110090	90W INC	90
110093	93W INC	93
110100	100W INC	100
110120	120W INC	120
110125	125W INC	125
110135	135W INC	135
110150	150W INC	150
110200	200W INC	200
110300	300W INC	300
110448	448W INC	448
110500	500W INC	500
110750	750W INC	750
111000	1000W INC	1000
111500	1500W INC	1500

Low Voltage Halogen Fixture (includes Transformer)		
Device Code	Device Description	Rated Watts
1R0020	20W LV HALOGEN FIXT	30
1R0025	25W LV HALOGEN FIXT	35
1R0035	35W LV HALOGEN FIXT	45
1R0042	42W LV HALOGEN FIXT	52
1R0050	50W LV HALOGEN FIXT	60
1R0065	65W LV HALOGEN FIXT	75
1R0075	75W LV HALOGEN FIXT	85

EXISTING LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
<b>Halogen/Quartz Lamps</b>		
1T0035	35W HALOGEN LAMP	35
1T0040	40W HALOGEN LAMP	40
1T0042	42W HALOGEN LAMP	42
1T0045	45W HALOGEN LAMP	45
1T0047	47W HALOGEN LAMP	47
1T0050	50W HALOGEN LAMP	50
1T0052	52W HALOGEN LAMP	52
1T0055	55W HALOGEN LAMP	55
1T0060	60W HALOGEN LAMP	60
1T0072	72W HALOGEN LAMP	72
1T0075	75W HALOGEN LAMP	75
1T0090	90W HALOGEN LAMP	90
1T0100	100W HALOGEN LAMP	100
1T0150	150W HALOGEN LAMP	150
1T0200	200W HALOGEN LAMP	200
1T0250	250W HALOGEN LAMP	250
1T0300	300W HALOGEN LAMP	300
1T0350	350W HALOGEN LAMP	350
1T0400	400W HALOGEN LAMP	400
1T0425	425W HALOGEN LAMP	425
1T0500	500W HALOGEN LAMP	500
1T0750	750W HALOGEN LAMP	750
1T0900	900W HALOGEN LAMP	900
1T1000	1000W HALOGEN LAMP	1000
1T1200	1200W HALOGEN LAMP	1200
1T1500	1500W HALOGEN LAMP	1500

Mercury Vapor (MV)		
Device Code	Device Description	Rated Watts
1V0040S	40W MERCURY	50
1V0050S	50W MERCURY	75
1V0075S	75W MERCURY	95
1V0100S	100W MERCURY	120
1V0175S	175W MERCURY	205
1V0250S	250W MERCURY	290
1V0400S	400W MERCURY	455
1V0700S	700W MERCURY	775
1V1000S	1000W MERCURY	1075
2V0400S	2/400W MERCURY	880

EXISTING LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
<b>Low Pressure Sodium (LPS)</b>		
1L0035S	35W LPS	60
1L0055S	55W LPS	85
1L0090S	90W LPS	130
1L0135S	135W LPS	180
1L0180S	180W LPS	230

High Pressure Sodium (HPS)		
1H0035S	35W HPS	45
1H0050S	50W HPS	65
1H0070S	70W HPS	90
1H0100S	100W HPS	130
1H0150S	150W HPS	190
1H0200S	200W HPS	240
1H0225S	225W HPS	275
1H0250S	250W HPS	295
1H0310S	310W HPS	350
1H0360S	360W HPS	435
1H0400S	400W HPS	460
1H0500S	600W HPS	675
1H0750S	750W HPS	835
1H1000S	1000W HPS	1035

Metal Halide (MH)		
1M0032S	32W METAL HALIDE	40
1M0050S	50W METAL HALIDE	65
1M0070S	70W METAL HALIDE	95
1M0100S	100W METAL HALIDE	120
1M0150S	150W METAL HALIDE	190
1M0175S	175W METAL HALIDE	205
1M0250S	250W METAL HALIDE	295
1M0360S	360W METAL HALIDE	430
1M0400S	400W METAL HALIDE	455
1M0750S	750W METAL HALIDE	825
1M0875P	875W MH CWA	950
1M0875R	875W MH LINEAR	927
1M1000S	1000W METAL HALIDE	1075
1M1500S	1500W METAL HALIDE	1615
1M1800S	1800W METAL HALIDE	1875

Pulse Start Metal Halide Lamp/Ballast		
1M0100P	100W MH CWA	128
1M0100R	100W MH LINEAR	118
1M0150P	150W MH CWA	190
1M0150R	150W MH LINEAR	172
1M0175P	175W MH CWA	208
1M0175R	175W MH LINEAR	190
1M0200P	200W MH CWA	232
1M0200R	200W MH LINEAR	218
1M0250P	250W MH CWA	288
1M0250R	250W MH LINEAR	265
1M0300P	300W MH CWA	342
1M0300R	300W MH LINEAR	324
1M0320P	320W MH CWA	365
1M0320R	320W MH LINEAR	345
1M0350P	350W MH CWA	400
1M0350R	350W MH LINEAR	375

EXISTING LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
<b>Pulse Start Metal Halide Lamp/Ballast (cont.)</b>		
1M0400P	400W MH CWA	455
1M0400R	400W MH LINEAR	430
1M0450P	450W MH CWA	508
1M0450R	450W MH LINEAR	480
1M0750P	750W MH CWA	815
1M0750R	750W MH LINEAR	805
1M1000P	1000W MH CWA	1080

Two Foot T8 / T12 Systems		
1F17SSE	1L2' 17WT8/ELIG	17
1F20SSS	1L2' 20WT12/HPF(1)	32
1F28BXE	1L2' F28BX/ELIG	32
1F40BXE	1L2' F40BX/ELIG	46
1F50BXE	1L2' F50BX/ELIG	54
1F55BXE	1L2' F55BX/ELIG	56
1F80BXE	1L2' F80BXE/ELIG	90
2F14EEE	2L2' T5/EEELIG	32
2F17EEE	2L2' 17W T8EE/ELEE	29
2F17SSE	2L2' 17W T8/ELIG	37
2F17SSL	2L2' 17W T8/ELIG LOW POWER	27
2F17SSM	2L2' 17W T8/EEMAG	45
2F20SSS	2L2' 20WT12/HPF(2)	56
2F24HSS	2L2' 24 T12HO/STD/STD	85
2F28BXE	2L2' F28BX/ELIG	63
2F40BXE	2L2' F40BX/ELIG	72
2F50BXE	2L2' F50BX/ELIG	108
2F55BXE	2L2' F55BXE/ELIG	112
3F17SSE	3L2' 17W T8/ELIG	53
3F17SSL	3L2' 17W T8/ELIG LOW POWER	39
3F20SSS	3L2' 20WT12/HPF(3)	78
3F28BXE	3L2' F28BX/ELIG	94
3F40BXE	3L2' F40BX/ELIG	102
3F50BXE	3L2' F50BX/ELIG	162
3F55BXE	3L2' F55BX/ELIG	168
4F17SSE	4L2' 17W T8/ELIG	62
4F20SSS	4L2' 20WT12/HPF(2)	112
4F36BXE	4L2' F36BX/ELIG	148
4F40BXE	4L2' F40BX/ELIG	144
4F40BXH	4L 40W T5 (Std.) HIGH LMN	170
4F50BXE	4L2' F50BX/ELIG	216
4F55BXE	4L2' F55BX/ELIG	224
5F40BXE	5L2' F40BX/ELIG	190
5F50BXE	5L2' F50BX/ELIG	270
5F55BXE	5L2' F55BX/ELIG	280
6F36BXE	6L2' F36BX/ELIG	212
6F40BXE	6L2' F40BX/ELIG	204
6F50BXE	6L2' F50BX/ELIG	324
6F55BXE	6L2' F55BX/ELIG	336
8F36BXE	8L2' F36BX/ELIG	296
8F40BXE	8L2' F40BX/ELIG	288
8F50BXE	8L2' F50BX/ELIG	432
8F55BXE	8L2' F55BX/ELIG	448
9F36BXE	9L2' F36BX/ELIG	318
9F40BXE	9L2' F40BX/ELIG	306
9F50BXE	9L2' F50BX/ELIG	486
9F55BXE	9L2' F55BX/ELIG	504

EXISTING LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
<b>Two Foot T8 / T12 Systems (cont.)</b>		
12F40BE	12L2' F40BX/ELIG	408
12F50BE	12L2' F50BX/ELIG	648
12F55BE	12L2' F55BX/ELIG	672

Three Foot T8 / T12 Systems		
1F25SSE	1L3' 25W T8/ELIG	24
2F25SSE	2L3' 25W T8/ELIG	47
2F25SSM	2L3' 25W T8/EEMAG	65
1F30SEM	1L3' 30W T12 EE/EEMAG	38
1F30SES	1L3' 30W T12 EE/STD	42
1F30SSS	1L3' 30W T12 STD/STD	46
2F30SEE	2L3' 30W T12 EE/ELIG	49
2F30SEM	2L3' 30W T12 EE/EEMAG	66
2F30SES	2L3' 30W T12 EE/STD	73
2F30SSS	2L3' 30W T12 STD/STD	80
2F25SSE	2L3' 25W T8/ELIG	47
2F25SSM	2L3' 25W T8/EEMAG	65
3F30SSS	3L3' 30W T12 STD/STD	140
3F30SES	3L3' 30W T12 EE/STD	127
4F25ESH	4L3' 25W T8EE/ELEE HIGH PWR'	120
4F25ESL	4L3' 25W T8EE/ELEE LOW PWR'	74
4F25ESN	4L3' 25W T8EE/ELEE'	90
4F25SSE	4L3' 25W T8/ELIG	88
4F25SSL	4L3' 25W T8/ELIG LOW PWR	74
4F30SES	4L3' 30W T12 EE/STD	146

Four Foot F48 T12 Systems		
1F48SES	1L4' F48T12EE/STD	50
1F48SSS	1L4' F48T12/STD	60
2F48SES	2L4' F48T12EE/STD	82
2F48SSS	2L4' F48T12/STD	102
3F48SES	3L4' F48T12EE/STD	132
3F48SSS	3L4' F48T12/STD	162
4F48SES	4L4' F48T12EE/STD	164
4F48SSS	4L4' F48T12/STD	204

Four Foot F48HO T12 Systems		
1F48HES	1L4' F48HO/EE/STD	80
1F48HSS	1L4' F48HO/STD/STD	85
2F48HES	2L4' F48HO/EE/STD	135
2F48HSS	2L4' F48HO/STD/STD	145
3F48HES	3L4' F48HO/EE/STD	215
3F48HSS	3L4' F48HO/STD/STD	230
4F48HES	4L4' F48HO/EE/STD	270
4F48HSS	4L4' F48HO/STD/STD	290

Four Foot F48VHO T12 Systems		
1F48VES	1L4' F48VHO/EE/STD	123
1F48VSS	1L4' F48VHO/STD/STD	138
2F48VES	2L4' F48VHO/EE/STD	210
2F48VSS	2L4' F48VHO/STD/STD	240
3F48VES	3L4' F48VHO/EE/STD	333
3F48VSS	3L4' F48VHO/STD/STD	378
4F48VES	4L4' F48VHO/EE/STD	420
4F48VSS	4L4' F48VHO/STD/STD	480

EXISTING LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
<b>Four Foot T12 Systems</b>		
1F40SEE	1L4' EE/ELIG	38
1F40SEM	1L4' EE/EEMAG	40
1F40SES	1L4' EE/STD	50
1F40SSE	1L4' STD/ELIG	46
1F40SSM	1L4' STD/EEMAG	50
1F40SSS	1L4' STD/STD	57
2F40SEE	2L4' EE/ELIG	60
2F40SEM	2L4' EE/EEMAG	70
2F40SES	2L4' EE/STD	80
2F40SSE	2L4' STD/ELIG	72
2F40SSM	2L4' STD/EEMAG	86
2F40SSS	2L4' STD/STD	94
3F40SEE	3L4' EE/ELIG	90
3F40SEM	3L4' EE/EEMAG	110
3F40SES	3L4' EE/STD	130
3F40SSE	3L4' STD/ELIG	110
3F40SSM	3L4' STD/EEMAG	136
3F40SSS	3L4' STD/STD	151
4F40SEE	4L4' EE/ELIG	120
4F40SEM	4L4' EE/EEMAG	140
4F40SES	4L4' EE/STD	160
4F40SSE	4L4' STD/ELIG	144
4F40SSM	4L4' STD/EEMAG	172
4F40SSS	4L4' STD/STD	188
6F40SSS	6L4' STD/STD	282

Four Foot T8 Systems		
1F32SSE	1L4' T8/ELIG	30
1F32SSL	1L4' T8/ELIG LOW POWER	26
1F32SSM	1L4' T8/EEMAG	37
2F32SSE	2L4' T8/ELIG	60
2F32SSH	2L4' T8/ELIG HIGH LMN	78
2F32SSL	2L4' T8/ELIG LOW PWR	52
2F32SSM	2L4' T8/EEMAG	70
3F32SSE	3L4' T8/ELIG	88
3F32SSH	3L4' T8/ELIG HIGH LMN	112
3F32SSL	3L4' T8/ELIG LOW POWER	76
3F32SSM	3L4' T8/EEMAG	107
4F32SSE	4L4' T8/ELIG	112
4F32SSH	4L4' T8/ELIG HIGH LMN	156
4F32SSL	4L4' T8/ELIG LOW PWR	98
4F32SSM	4L4' T8/EEMAG	140
5F32SSE	5L4' T8/ELIG	148
5F32SSH	5L4' T8/ELIG HIGH LMN	190
6F32SSE	6L4' T8/ELIG	174
6F32SSH	6L4' 32W T8/ELIG HIGH LMN	224
8F32SSH	8L4' T8/ELIG HIGH LMN	312

Five Foot T8 / T12 Systems		
1F40HSE	1L5' HO/STD/ELIG	59
1F60HSM	1L5' HO/STD/EEMAG	90
1F60SSM	1L5' STD/EEMAG	73
1F60TSM	1L5' T10HO/STD/EEMAG	135
2F40HSE	2L5' HO/STD/ELIG	123
2F40TSE	2L5' T8/ELIG	68

EXISTING LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
<b>Five Foot T8 / T12 Systems (cont.)</b>		
2F60HSM	2L5' HO/STD/EEMAG	178
2F60SSM	2L5'/STD/EEMAG	122
3F40TSE	3L5'T8/ELIG	106

<b>Six Foot T12 &amp; T12HO Systems</b>		
1F72HSE	1L6'T8HO/ELIG	80
1F72HSS	1L6' F72HO/STD/STD	113
1F72SSM	1L6' STD/EEMAG	80
1F72SSS	1L6' STD/STD	95
2F72HSE	2L6'T8 HO/ELIG	160
2F72HSM	2L6' F72HO/STD/EEMAG	193
2F72HSS	2L6' F72HO/STD	195
2F72SSM	2L6' STD/EEMAG	135
2F72SSS	2L6' STD/STD	173

<b>Eight Foot T12HO Systems</b>		
1F96HES	1L8'HO/EE/STD	125
1F96HSS	1L8'HO/STD/STD	135
2F96HEE	2L8'HO/EE/ELIG	170
2F96HEM	2L8'HO/EE/EEMAG	207
2F96HES	2L8'HO EE/STD	227
2F96HSE	2L8'HO STD/ELIG	195
2F96HSM	2L8'HO/STD/EEMAG	237
2F96HSS	2L8'HO/STD/STD	257
3F96HES	3L8'HO/EE/STD	352
3F96HSS	3L8'HO/STD/STD	392
4F96HEE	4L8'HO/EE/ELIG	340
4F96HEM	4L8'HO/EE/EEMAG	414
4F96HES	4L8'HO/EE/STD	454
4F96HSE	4L8'HO/STD/ELIG	390
4F96HSM	4L8'HO/STD/EEMAG	474
4F96HSS	4L8'HO/STD/STD	514

<b>Eight Foot T12VHO Systems</b>		
1F96VES	1L8'VHO/EE/STD	200
1F96VSS	1L8'VHO/STD/STD	230
2F96VES	2L8'VHO/EE/STD	390
2F96VSS	2L8'VHO/STD/STD	450
3F96VES	3L8'VHO/EE/STD	590
3F96VSS	3L8'VHO/STD/STD	680
4F96VES	4L8'VHO/EE/STD	780
4F96VSS	4L8'VHO/STD/STD	900

<b>Eight Foot T8 Systems</b>		
1F59SSE	1L8'T8/ELIG	60
1F80SSE	1L8'T8 HO/ELIG	85
2F59SSE	2L8'T8/ELIG	109
2F59SSL	2L8'T8/ELIG LOW PWR	100
2F80SSE	2L8'T8 HO/ELIG	160
4F59SSE	4L8'T8/ELIG	218

EXISTING LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
<b>Eight Foot T12 Systems</b>		
1F96SEE	1L8'EE/ELIG	60
1F96SES	1L8'EE/STD	83
1F96SSE	1L8'STD/ELIG	70
1F96SSS	1L8'STD/STD	100
2F96SEE	2L8'EE/ELIG	109
2F96SEM	2L8'EE/EEMAG	123
2F96SES	2L8'EE/STD	138
2F96SSE	2L8'STD/ELIG	134
2F96SSM	2L8'STD/EEMAG	158
2F96SSS	2L8'STD/STD	173
3F96SES	3L8'EE/STD	221
3F96SSS	3L8'STD/STD	273
4F96SEE	4L8'EE/ELIG	218
4F96SEM	4L8'EE/EEMAG	246
4F96SES	4L8'EE/STD	276
4F96SSE	4L8'STD/ELIG	268
4F96SSM	4L8'STD/EEMAG	316
4F96SSS	4L8'STD/STD	346

PROPOSED LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
<b>LED Exit Signs</b>		
1E0002	2.0 WATT LED	2
1E0003	3.0 WATT LED	3
1E0005	5.0 WLED	5
1E0005C	0.5 WATT LEC	0.5
1E0008	8.0 WLED	8
1E0015	1.5 WATT LED	1.5
1E0105	10.5 WATT LED	10.5

Compact Fluorescents (CFL's)		
1C0005S	5W COMPACT HW	7
1C0007S	7W COMPACT HW	9
1C0009S	9W COMPACT HW	11
1C0011S	11W COMPACT HW	13
1C0013S	13W COMPACT HW	15
1C0018E	18W COMPACT HW ELIG	20
1C0018S	18W COMPACT HW	20
1C0022S	22W COMPACT HW	24
1C0023E	1/23W COMPACT HW ELIG	25
1C0026E	26W COMPACT HW ELIG	28
1C0026S	26W COMPACT HW	28
1C0028S	28W COMPACT HW	30
1C0032E	32W COMPACT HW ELIG	34
1C0032S	32W CIRCLINE HW	34
1C0042E	1/42W COMPACT HW ELIG	48
1C0044S	44W CIRCLINE HW	46
1C0057E	1/57W COMPACT HW ELIG	65
1C2232S	22/32W CIRCLINE HW	58
1C2D10E	10W 2D COMPACT HW ELIG	12
1C2D16E	16W 2D COMPACT HW ELIG	18
1C2D21E	21W 2D COMPACT HW ELIG	22
1C2D28E	28W 2D COMPACT HW ELIG	28
1C2D38E	38W 2D COMPACT HW ELIG	36
1C3240S	32/40W CIRCLINE HW	80
2C0005S	2/5W COMPACT HW	14
2C0007S	2/7W COMPACT HW	18
2C0009S	2/9W COMPACT HW	22
2C0011S	2/11W COMPACT HW	26
2C0013E	2/13W COMPACT HW ELIG	28
2C0013S	2/13W COMPACT HW	30
2C0018E	2/18W COMP. HW ELIG	40
2C0026E	2/26W COMP. HW ELIG	54
2C0032E	2/32W COMPACT HW ELIG	68
2C0042E	2/42W COMPACT HW ELIG	100
2C0057E	2/57W COMPACT HW ELIG	130
3C0009S	3/9W COMPACT HW	33
3C0013S	3/13W COMPACT HW	45
3C0018E	3/18W COMPACT HW ELIG	60
3C0026E	3/26W COMPACT HW ELIG	82
3C0032E	3/32W COMPACT HW ELIG	114
3C0042E	3/42W COMPACT HW ELIG	141
4C0018E	4/18W COMPACT HW ELIG	80
4C0026E	4/26W COMPACT HW ELIG	108
4C0032E	4/32W COMPACT HW ELIG	152
4C0042E	4/42W COMPACT HW ELIG	188
6C0026E	6/26W COMPACT HW ELIG	162
6C0032E	6/32W COMPACT HW ELIG	228

PROPOSED LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
<b>Compact Fluorescents (CFL's) (cont)</b>		
6C0042E	6/42W COMPACT HW ELIG	282
8C0026E	8/26W COMPACT HW ELIG	216
8C0032E	8/32W COMPACT HW ELIG	304
8C0042E	8/42W COMPACT HW ELIG	376

T5 Systems		
1F14SSE	1L2' 14W T5/ELIG	16
1F21SSE	1L3' 21W T5/ELIG	24
1F24HSE	1L2' 24W T5HO/ELIG	29
1F28SSE	1L4' 28W T5/ELIG	32
1F39HSE	1L3' 39W T5HO/ELIG	42
1F47HSE	1L4' 47W T5HO/ELIG	53
1F50HSE	1L4' 50W T5HO/ELIG	58
1F54HSE	1L4' 54W T5HO/ELIG	59
2F14SSE	2L2' 14W T5/ELIG	32
2F21SSE	2L3' 21W T5/ELIG	47
2F24HSE	2L2' 24W T5HO/ELIG	52
2F28SSE	2L4' 28W T5/ELIG	63
2F39HSE	2L3' 39W T5HO/ELIG	85
2F47HSE	2L4' 47W T5HO/ELIG	103
2F50HSE	2L4' 50W T5HO/ELIG	110
2F54HSE	2L4' 54W T5HO/ELIG	117
3F14SSE	3L2' 14W T5/ELIG	50
3F24HSE	3L4' T5HO/ELIG	80
3F28SSE	3L4' 28W T5/ELIG	95
3F47HSE	3L4' 47W T5HO/ELIG	157
3F50HSE	3L4' 50W T5HO/ELIG	168
3F54HSE	3L4' 54W T5HO/ELIG	177
4F14SSE	4L2' 14W T5/ELIG	68
4F28SSE	4L4' 28W T5/ELIG	126
4F47HSE	4L4' 47W T5HO/ELIG	200
4F50HSE	4L4' 50W T5HO/ELIG	215
4F54ESH	4L4' 54W T5HO/ELEE	218
4F54HSE	4L4' 54W T5HO/ELIG	234
5F47HSE	5L4' 47W T5HO/ELIG	260
5F50HSE	5L4' 50W T5HO/ELIG	278
5F54HSE	5L4' 54W T5HO/ELIG	294
6F28SSE	6L4' 28W T5/ELIG	189
6F47HSE	6L4' 47W T5HO/ELIG	303
6F50HSE	6L4' 50W T5HO/ELIG	325
6F54HSE	6L4' 54W T5HO/ELIG	351
8F54HSE	8L4' 54W T5HO/ELIG	468
10F54HSE	10L4' 54W T5HO/ELIG	585

Two Foot High Efficient T8 Systems		
1F17ESL	1L2' 17W T8EE/ELEE LOW PWR	14
1F17ESN	1L2' 17W T8EE/ELEE	17
1F17ESH	1L2' 17W T8EE/ELEE HIGH PWR	20
1F28BXE	1L2' F28BX/ELIG	32
2F17ESL	2L2' 17W T8EE/ELEE LOW PWR	27
2F17ESN	2L2' 17W T8EE/ELEE	32
2F17ESH	2L2' 17W T8EE/ELEE HIGH PWR	40
2F28BXE	2L2' F28BX/ELIG	63
3F17ESL	3L2' 17W T8EE/ELEE LOW PWR	39
3F17ESN	3L2' 17W T8EE/ELEE	46
3F17ESH	3L2' 17W T8EE/ELEE HIGH PWR	61

PROPOSED LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
<b>Two Foot High Efficient T8 Systems (cont)</b>		
3F28BXE	3L2' F28BX/ELIG	94

Three Foot High Efficient T8 Systems		
1F25ESL	1L3' 25W T8EE/ELEE LOW PWR	21
1F25ESN	1L3' 25W T8EE/ELEE	24
1F25ESH	1L3' 25W T8EE/ELEE HIGH PWR	30
2F25ESL	2L3' 25W T8EE/ELEE LOW PWR	40
2F25ESN	2L3' 25W T8EE/ELEE	45
2F25ESH	2L3' 25W T8EE/ELEE HIGH PWR	60
3F25ESL	3L3' 25W T8EE/ELEE LOW PWR	58
3F25ESN	3L3' 25W T8EE/ELEE	67
3F25ESH	3L3' 25W T8EE/ELEE HIGH PWR	90

Four Foot T8 High Efficient / Reduce Wattage Systems		
1F25EEH	1L4' 25W T8EE/ELEE HIGH PWR	30
1F25EEE	1L4' 25W T8EE/ELEE	22
1F25EEL	1L4' 25W T8EE/ELEE LOW PWR	19
2F25EEH	2L4' 25W T8EE/ELEE HIGH PWR	57
2F25EEE	2L4' 25W T8EE/ELEE	43
2F25EEL	2L4' 25W T8EE/ELEE LOW PWR	37
3F25EEH	3L4' 25W T8EE/ELEE HIGH PWR	85
3F25EEE	3L4' 25W T8EE/ELEE	64
3F25EEL	3L4' 25W T8EE/ELEE LOW PWR	57
4F25EEH	4L4' 25W T8EE/ELEE HIGH PWR	111
4F25EEE	4L4' 25W T8EE/ELEE	86
4F25EEL	4L4' 25W T8EE/ELEE LOW PWR	75
1F28EEH	1L4' 28W T8EE/ELEE HIGH PWR	33
1F28EEE	1L4' 28W T8EE/ELEE	24
1F28EEL	1L4' 28W T8EE/ELEE LOW PWR	22
2F28EEH	2L4' 28W T8EE/ELEE HIGH PWR	64
2F28EEE	2L4' 28W T8EE/ELEE	48
2F28EEL	2L4' 28W T8EE/ELEE LOW PWR	42
3F28EEH	3L4' 28W T8EE/ELEE HIGH PWR	96
3F28EEE	3L4' 28W T8EE/ELEE	72
3F28EEL	3L4' 28W T8EE/ELEE LOW PWR	63
4F28EEH	4L4' 28W T8EE/ELEE HIGH PWR	126
4F28EEE	4L4' 28W T8EE/ELEE	94
4F28EEL	4L4' 28W T8EE/ELEE LOW PWR	83
1F30EEH	1L4' 30W T8EE/ELEE HIGH PWR	36
1F30EEE	1L4' 30W T8EE/ELEE	26
1F30EEL	1L4' 30W T8EE/ELEE LOW PWR	24
2F30EEH	2L4' 30W T8EE/ELEE HIGH PWR	69
2F30EEE	2L4' 30W T8EE/ELEE	52
2F30EEL	2L4' 30W T8EE/ELEE LOW PWR	45
3F30EEH	3L4' 30W T8EE/ELEE HIGH PWR	103
3F30EEE	3L4' 30W T8EE/ELEE	77
3F30EEL	3L4' 30W T8EE/ELEE LOW PWR	68
4F30EEH	4L4' 30W T8EE/ELEE HIGH PWR	133
4F30EEE	4L4' 30W T8EE/ELEE	101
4F30EEL	4L4' 30W T8EE/ELEE LOW PWR	89
1F32EEH	1L4' 32W T8EE/ELEE HIGH PWR	38
1F32EEE	1L4' 32W T8EE/ELEE	28
1F32EEL	1L4' 32W T8EE/ELEE LOW PWR	25
2F32EEH	2L4' 32W T8EE/ELEE HIGH PWR	73
2F32EEE	2L4' 32W T8EE/ELEE	53
2F32EEL	2L4' 32W T8EE/ELEE LOW PWR	47

PROPOSED LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
<b>Four Foot T8 High Efficient / Reduce Wattage Systems (cont)</b>		
3F32EEH	3L4' 32W T8EE/ELEE HIGH PWR	109
3F32EEE	3L4' 32W T8EE/ELEE	82
3F32EEL	3L4' 32W T8EE/ELEE LOW PWR	72

Four Foot T8 High Efficient / Reduce Wattage Systems (cont)		
4F32EEH	4L4' 32W T8EE/ELEE HIGH PWR	141
4F32EEE	4L4' 32W T8EE/ELEE	107
4F32EEL	4L4' 32W T8EE/ELEE LOW PWR	95
5F32EEH	5L4' 32W T8EE/ELEE HIGH PWR	182
6F28EEE	6L4' 28W T8EE/ELEE	144
6F28EEH	6L4' 28W T8EE/ELEE HIGH PWR	192
6F28EEL	6L4' 28W T8EE/ELEE LOW PWR	126
6F30EEE	6L4' 30W T8EE/ELEE	154
6F30EEL	6L4' 30W T8EE/ELEE LOW PWR	136
6F32EEH	6L4' 32W T8EE/ELEE HIGH PWR	218
6F32EEE	6L4' 32W T8EE/ELEE	168
6F32EEL	6L4' 32W T8EE/ELEE LOW PWR	146
7F32EEH	7L4' 32W T8EE/ELEE HIGH PWR	250

Eight Foot T8 Systems		
1F59SSE	1L8' T8/ELIG	60
1F80SSE	1L8' T8 HO/ELIG	85
2F59SSE	2L8' T8/ELIG	109
2F59SSL	2L8' T8/ELIG LOW PWR	100
2F80SSE	2L8' T8 HO/ELIG	160

Tandem Wired T8 High Efficient		
2W32EEE	2L4' TW T8EE/ELIG	27
2W32EEL	2L4' TW T8EE/ELEE LOW PWR	24
3W32EEE	3L4' TW T8EE/ELIG	39
3W32EEL	3L4' TW T8EE/ELEE LOW PWR	34
4W32EEE	4L4' TW T8EE/ELIG	51
4W32EEL	4L4' TW T8EE/ELEE LOW PWR	45

Tandem-Wired Fluorescent Systems		
2W32SSE	2L4' TW T8/ELIG	30
2W32SSH	2L4' TW T8/HI-LUM	39
2W40SEE	2L4' TW EE/ELIG	30
2W40SSE	2L4' TW STD/ELIG	36
2W59HSE	2L8' TW T8 HO/ELIG	80
2W59SSE	2L8' TW T8/ELIG	55
2W96HEE	2L8' TW HO-EE/ELIG	85
2W96HSE	2L8' TW HO-STD/ELIG	98
2W96SEE	2L8' TW EE/ELIG	55
2W96SSE	2L8' TW STD/ELIG	67
3W32SSE	3L4' TW T8/ELIG	29
4D17SSE	4L2' TW T8/ELIG	31
4D32EEE	4L4' DTW T8EE/ELIG	51
4D32EEL	4L4' DTW T8EE/ELEE LOW PWR	45
4D32SSE	4L4' DTW T8/ELIG	53
4D32SSL	4L4 DTWT8/ELIG LOW POWER	49
4W32SSE	4L4' TW T8/ELIG	27
4W32SSL	4L4 TWT8/ELIG LOW POWER	25

PROPOSED LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
<b>LED Lighting Fixtures</b>		
1L002	2 WATT LED	2
1L003	3 WATT LED	3
1L004	4 WATT LED	4
1L005	5 WATT LED	5
1L006	6 WATT LED	6
1L007	7 WATT LED	7
1L008	8 WATT LED	8
1L009	9 WATT LED	9
1L010	10 WATT LED	10
1L011	11 WATT LED	11
1L012	12 WATT LED	12
1L013	13 WATT LED	13
1L014	14 WATT LED	14
1L015	15 WATT LED	15
1L016	16 WATT LED	16
1L017	17 WATT LED	17
1L018	18 WATT LED	18
1L019	19 WATT LED	19
1L020	20 WATT LED	20
1L021	21 WATT LED	21
1L022	22 WATT LED	22
1L023	23 WATT LED	23
1L024	24 WATT LED	24
1L025	25 WATT LED	25
1L026	26 WATT LED	26
1L027	27 WATT LED	27
1L028	28 WATT LED	28
1L029	29 WATT LED	29
1L030	30 WATT LED	30
1L031	31 WATT LED	31
1L032	32 WATT LED	32
1L033	33 WATT LED	33
1L034	34 WATT LED	34
1L035	35 WATT LED	35
1L036	36 WATT LED	36
1L037	37 WATT LED	37
1L038	38 WATT LED	38
1L039	39 WATT LED	39
1L040	40 WATT LED	40
1L041	41 WATT LED	41
1L042	42 WATT LED	42
1L043	43 WATT LED	43
1L044	44 WATT LED	44
1L045	45 WATT LED	45
1L046	46 WATT LED	46
1L047	47 WATT LED	47
1L048	48 WATT LED	48
1L049	49 WATT LED	49
1L050	50 WATT LED	50
1L053	53 WATT LED	53
1L055	55 WATT LED	55
1L060	60 WATT LED	60
1L063	63 WATT LED	63
1L070	70 WATT LED	70
1L071	71 WATT LED	71
1L073	73 WATT LED	73

PROPOSED LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
<b>LED Lighting Fixtures (cont)</b>		
1L075	75 WATT LED	75
1L080	80 WATT LED	80
1L085	85 WATT LED	85
1L090	90 WATT LED	90
1L095	95 WATT LED	95
1L100	100 WATT LED	100
1L101	101 WATT LED	101
1L106	106 WATT LED	106
1L107	107 WATT LED	107
1L116	116 WATT LED	116
1L120	120 WATT LED	120
1L125	125 WATT LED	125
1L130	130 WATT LED	130
1L131	131 WATT LED	131
1L135	135 WATT LED	135
1L139	139 WATT LED	139
1L140	140 WATT LED	140
1L145	145 WATT LED	145
1L150	150 WATT LED	150
1L155	155 WATT LED	155
1L160	160 WATT LED	160
1L164	164 WATT LED	164
1L165	165 WATT LED	165
1L170	170 WATT LED	170
1L175	175 WATT LED	175
1L180	180 WATT LED	180
1L185	185 WATT LED	185
1L186	186 WATT LED	186
1L190	190 WATT LED	190
1L200	200 WATT LED	200
1L204	204 WATT LED	204
1L205	205 WATT LED	205
1L210	210 WATT LED	210
1L211	211 WATT LED	211
1L220	220 WATT LED	220
1L233	233 WATT LED	233
1L235	235 WATT LED	235
1L237	237 WATT LED	237
1L240	240 WATT LED	240
1L256	256 WATT LED	256
1L279	279 WATT LED	279

<b>Electronic Metal Halide Lamps</b>		
1M0150E	150W METAL HALIDE EB	160
1M0200E	200W METAL HALIDE EB	215
1M0250E	250W METAL HALIDE EB	270
1M0320E	320W METAL HALIDE EB	345
1M0350E	350W METAL HALIDE EB	375
1M0400E	400W METAL HALIDE EB	430
1M0450E	400W METAL HALIDE EB	480



**Table 1C: Retrofit Lighting Systems Inventory Worksheet**

Building and Room Identification (Installation Site): \_\_\_\_\_

		Existing Fixtures (Retrofit only)				Proposed Fixtures						
Location	Qty	Lamp/Ballast Description	*Device Code	Existing Watts per Fixture/Device	Product Code (Table 1A)	Qty	Lamp/Ballast Description	*Device Code	Proposed Watts per Fixture/Device	**Annual Operating Hours	Unit Incentive \$	Total Incentive \$
Ex. Lobby-East Entrance	4	4' 3 lamp T12 Magnetic	3F40SEM	110 watts	12	4	4' 2 lamp 28 watt RW T8 w/ LP Electronic Ballast	2F28EEL	42 watts	3,200 hours	\$15	\$60
1												
2												
3												
4												
5												
6												
7												
8												
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10												
11												
12												
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17												
18												
19												
20												
<b>Total Requested Incentive (this page):</b>												

NOTE: An electronic version (Excel) of this sheet must be submitted for inventories exceeding this page.

\* The Device Code list is available at <https://www1.nationalgridus.com/files/AddedPDF/POA/RILightingRetrofit1.pdf>.

\*\* Facility lighting must average a minimum of 2,000 hours per year, except Municipal Facilities who must contact their Program Administrator for more information on eligibility requirements.

**Table 1D: Lighting Sensor Inventory Worksheet**

Building and Room Identification (Installation Site): \_\_\_\_\_

	Location of Sensors	Product Code (Table 1B)	Sensor Description	Qty of Sensors	# of Fixtures Controlled by Sensors	Fixture Description	Total Wattage per Sensor	Annual Hours of Operation	Unit Incentive \$	Total Incentive \$
Ex.	Lobby-East Entrance	61	Occupancy Sensor Remote Mount	1	5	(4) 4' 2 lamp T8 Electronic & (1) 26 Watt Compact HW	196 watts	1040 hours	\$40	\$40
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
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20										
<b>Total Requested Incentive (this page):</b>										

Note: An electronic version (Excel) of this sheet must be submitted for inventories exceeding this page.

## TERMS AND CONDITIONS

### 1. Incentives

Subject to these Terms & Conditions, the Program Administrator will pay Incentives to Customer for the installation of EEMs.

### 2. Definitions

- (a) "Customer" means the customer maintaining an account for service with the Program Administrator, and who satisfies the Program eligibility requirements established by the Program Administrator.
- (b) "EEMs" are those energy efficiency measures described in the Program Materials or other Custom Measures that may be approved by the Program Administrator.
- (c) "Facility" means the Customer location served by the Program Administrator where EEMs are to be installed.
- (d) "Incentives" means those payments made by the Program Administrator to Customers pursuant to the Program and these Terms and Conditions.
- (e) "National Grid" means [Massachusetts Electric Company d/b/a National Grid, Nantucket Electric Company d/b/a National Grid or The Narragansett Electric Company d/b/a National Grid, as applicable].
- (f) "Program" means the energy efficiency program offered by the Program Administrator to Customers.
- (g) "Program Administrator" means National Grid.
- (h) "Program Materials" means the documents and information provided by the Program Administrator specifying the qualifying EEMs, technology requirements, costs and other Program requirements, which include, without limitation, program guidelines and requirements, application forms and approval letters.

### 3. Application Process and Requirement For Program Administrator Approval

- (a) The Customer shall submit a completed application in the form specified by the Program Administrator. Submission of a completed application does not alone entitle Customer to participation in the Program. Program Administrator reserves the right to reject any application, prior to pre-approval, for any reason whatsoever. In addition, at the Program Administrator's discretion, the Customer may be required to provide the Program Administrator with a copy of the detailed specifications and scope of work, as well as an analysis of the savings and/or demand reduction, for the EEMs proposed for approval. Customer will upon request by the Program Administrator provide a copy of the as-built drawings and equipment submittals for the Facility after EEMs are installed. This analysis shall be prepared by a Professional Engineer licensed in the state where the Facility is located to the extent required by the Program Administrator or by applicable law, regulation or code.
- (b) The Program Administrator will review the Customer's application and supporting documentation to determine the energy savings and demand reduction potential. The Program Administrator reserves the right to reject or modify any calculations, based on the Program Administrator's own analysis.
- (c) The Program Administrator is not obligated to pay any Incentives unless the authorized representative of the Program Administrator issues an approval letter regarding the EEMs proposed by the Customer, and any necessary pre- and post- installation verification activity is successfully completed by the Program Administrator. The Program Administrator's approval letter shall state the maximum approved Incentive amount and the date by which the EEMs must be fully installed and operational to qualify for Incentive payments. The Program Administrator may also require the Customer to execute additional agreements, or provide other documentation regarding the proposed EEM installation and Incentive payments.
- (d) The Customer will have no right to receive, and the Program Administrator will have no obligation to pay, Incentives for any EEMs that have not been approved in writing in advance by the Program Administrator, unless the Program Materials state that such prior approval is not required. Further, the Program Administrator is not obligated to pay Incentives for projects which were pre-approved but are determined to not comply with Program requirements after installation is complete.
- (e) The Program Administrator reserves the right to approve or disapprove of any application or proposed EEMs.
- (f) The Program Administrator will only pay incentives for the specific EEMs listed on the front of the application. If the customer has received an Upstream incentive for a measure listed on the form, the customer is not eligible to receive an additional incentive for the same measure.

### 4. Pre- and Post-Installation Verification and Follow-Up Visits

- (a) The Program Administrator is not obligated to pay any Incentives until the Program Administrator has performed a satisfactory pre-installation inspection (unless the Program Materials state such pre-inspection is not required) and post-installation verification of the installation. If the Program Administrator determines that any EEMs were not installed in accordance with these Terms and Conditions, the Program Materials and the Program Administrator's approval, the Program Administrator shall have the right to require modifications before having the obligation to make any Incentive payments. At its discretion the Program Administrator may also withhold payment of Incentives until it has been verified that the Customer has received, as appropriate, final drawings, operation and maintenance manuals, and operator training, and the Program Administrator has received documentation detailing the installation of the EEMs in accordance with these Terms and Conditions, the Program Materials and the Program Administrator's approval.
- (b) Program Administrator reserves the right to make a reasonable number of follow-up visits to the Facility during the twenty-four months following the actual completion date noted on the customer report. Such visits will occur at times mutually agreed upon by Program Administrator and Customer. The purpose of the follow-up visits is to provide the Program Administrator with an opportunity to review the operation of the EEMs and not to impact on the Incentives paid to the Customer.

### 5. Monitoring and Inspection

The Program Administrator reserves the right to perform monitoring and inspection of the EEMs for a three year period following completion of the installation in order to determine the actual demand reduction and energy savings. As a condition of receiving an Incentive, the Customer agrees to provide access and information to the Program Administrator and cooperate with the Program Administrator regarding such activity.

### 6. Site-Specific Custom Measures

The Program Administrator will only approve of those site-specific custom EEMs that the Program Administrator believes have cost-effective energy savings potential. In any case, the Program Administrator reserves the right to approve or disapprove of any such EEMs proposed by Customer.

### 7. Incentive Amounts

- (a) The Program Administrator reserves the right to adjust and/or negotiate the Incentive amount, prior to pre-approval or as set forth in these Terms and Conditions and the Program Materials.
- (b) Once an Incentive amount is pre-approved, the Program Administrator will pay no more than the cost to the Customer of purchasing and installing the EEM, or the pre-approved Incentive amount, whichever is less.
- (c) The Program Administrator reserves the right to reduce or eliminate the Incentive amount if (1) the quantity and/or qualifying costs of EEMs actually installed differs from the pre-approved amounts, or (2) the EEMs were not installed in accordance with these Terms and Conditions, the Program Materials or the Program Administrator's approval, or which have not been properly maintained, have been altered or disconnected, or in the event of a shutdown or significant reduction of operations at the facility where the EEMs are located. In addition the Customer shall be obligated to refund such Incentive amounts paid by the Program Administrator where the projected energy savings have not been achieved as a result of the foregoing circumstances.

### 8. Equipment and Installation

Customer shall be responsible for ensuring that the EEMs are installed and operated in accordance with applicable laws, regulations and codes and that all applicable permits and inspections are obtained. Customer shall provide the Program Administrator with copies of all invoices and related documents (including all materials, labor, and equipment discounts) relating to the purchase and installation of the EEMs. The itemized invoices shall include detail of all EEMs including the model, quantity and cost for each EEM, and shall identify any applicable discounts or Incentives. The Customer shall provide detail on the installation location of the EEMs in the format specified by the Program Administrator, and such other documentation and information as the Program Administrator may request, including, without limitation, copies of permits and contractor and supplier invoices, orders and records. The Program Administrator reserves the right to determine in its reasonable discretion the appropriate costs of EEMs in order to calculate the Incentive amount. Program Administrator will recognize installation costs only to the extent that such costs are reasonable (as determined by Contractor Administrator) and actually incurred by the Customer.

### 9. Installation Schedule Requirements

If the Customer does not complete installation of the approved EEMs within the earlier of the completion date specified in the Program Administrator's approval letter or twelve (12) months from the date the Program Administrator issues pre-approval of the EEM project, the Program Administrator may terminate any obligation to make Incentive payments.

### 10. Incentive Payment Conditions

Provided that the Customer has satisfied its obligations, the Program Administrator shall use commercially reasonable efforts to pay each Incentive amount to the Customer within forty-five (45) days after all of the following conditions are met: (1) Program Administrator's approval of the EEM project has been provided; (2) all applicable permits, licenses and inspections have been obtained by the Customer; (3) installation of the EEMs has been completed in accordance with the requirements hereof; and (4) the Program Administrator has verified all product and installation costs and the satisfactory installation of the EEMs, all in accordance with the terms hereof. Customer shall not assign any of its rights or obligations referenced in these Terms and Conditions or in the Program Materials (including, without limitation, the right to receive Incentive payments) without first obtaining the written consent of the Program Administrator.

## TERMS AND CONDITIONS (CONTINUED)

### 11. Contractor Shared Savings Arrangements

If EEMs are being installed by a contractor under a shared savings arrangement, the Program Administrator reserves the right to determine the cost of purchasing and installing the EEMs.

### 12. Maintenance of EEMs

Customer acknowledges and agrees that Customer shall operate and maintain the EEMs in accordance with the manufacturer's recommendations and the terms hereof, and shall replace consumable parts and other components with comparable or superior efficient products at the Customer's expense. Customers who install energy-efficient lighting EEMs are expected to replace any of the energy-efficient lights that burn out with lights of similar or superior energy savings efficiency at the Customer's expense.

### 13. Program/Terms and Conditions Changes

Program expenditures, requirements and eligibility, and these Terms & Conditions, may be changed by the Program Administrator at any time without notice. The Program Administrator reserves the right, for any reason, to withhold approval of projects and any EEMs, and to cancel or alter the Program, at any time without notice. Approved applications will be processed under the Terms and Conditions in effect at the time of the pre-approval by the Program Administrator.

### 14. Publicity of Customer Participation

The Customer grants to the Program Administrator the right to use and reference for promotional and regulatory purposes the Customer's participation in the Program, the details of the EEM project and the energy savings, the amount of Incentives paid to the Customer, and any other information relating to the Customer's participation in the Program.

### 15. Indemnification and Limitation of the Program Administrator's Liability

Customer shall indemnify, defend and hold harmless Program Administrator, its affiliates and their respective contractors, officers, directors, employees, agents, and representatives from and against any and all claims, damages, losses and expenses, including reasonable attorneys' fees and costs incurred to enforce this indemnity, arising out of, resulting from, or related to the Program or the performance of any services or other work in connection with the Program ("Damages"), caused or alleged to be caused in whole or in part by any actual or alleged act or omission of the Customer, any subcontractor, agent, or third party, or anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable.

To the fullest extent allowed by law, the Program Administrator's aggregate liability, regardless of the number of claims, shall be limited to paying approved Incentives in accordance with these Terms and Conditions and the Program Materials, and the Program Administrator and its affiliates and their respective contractors, officers, directors, employees, agents, representatives shall not be liable to the Customer or any other party for any other obligation. To the fullest extent allowed by law and as part of the consideration for participation in the Program, the Customer waives and releases the Program Administrator and its affiliates from all obligations (other than payment of an Incentive), and for any liability or claim associated with the EEMs, the performance of the EEMs, the Program, or these Terms and Conditions.

### 16. No Warranties or Representations by the Program Administrator

(a) THE PROGRAM ADMINISTRATOR DOES NOT ENDORSE, GUARANTEE, OR WARRANT ANY CONTRACTOR, MANUFACTURER OR PRODUCT, AND THE PROGRAM ADMINISTRATOR MAKES NO WARRANTIES OR GUARANTEES IN CONNECTION WITH ANY PROJECT, OR ANY SERVICES PERFORMED IN CONNECTION HEREWITH OR THEREWITH, WHETHER STATUTORY, ORAL, WRITTEN, EXPRESS, OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS DISCLAIMER SHALL SURVIVE ANY CANCELLATION, COMPLETION, TERMINATION OR EXPIRATION OF THE CUSTOMER'S PARTICIPATION IN THE PROGRAM. CUSTOMER ACKNOWLEDGES AND AGREES THAT ANY WARRANTIES PROVIDED BY ORIGINAL MANUFACTURERS', LICENSORS', OR PROVIDERS' OF MATERIAL, EQUIPMENT, OR OTHER ITEMS PROVIDED OR USED IN CONNECTION WITH THE PROGRAM UNDER THESE TERMS AND CONDITIONS, INCLUDING ITEMS INCORPORATED IN THE PROGRAM, ("THIRD PARTY WARRANTIES") ARE NOT TO BE CONSIDERED WARRANTIES OF THE PROGRAM ADMINISTRATOR AND THE PROGRAM ADMINISTRATOR MAKES NO REPRESENTATIONS, GUARANTEES, OR WARRANTIES AS TO THE APPLICABILITY OR ENFORCEABILITY OF ANY SUCH THIRD PARTY WARRANTIES. THE TERMS OF THIS SECTION SHALL GOVERN OVER ANY CONTRARY VERBAL STATEMENTS OR LANGUAGE APPEARING IN ANY PROGRAM MATERIALS OR OTHER DOCUMENTS PROVIDED BY PROGRAM ADMINISTRATOR.

(b) Neither the Program Administrator nor any of its employees or contractors is responsible for determining that the design, engineering or installation of the EEMs is proper or complies with any particular laws, codes, or industry standards. The Program Administrator does not make any representations of any kind regarding the benefits or energy savings to be achieved by the EEMs or the adequacy or safety of the EEMs.

(c) Customer acknowledges and agrees that it is solely responsible (directly-based on its own judgment or indirectly-based on the advice of an independent expert (not the Program Administrator) for all aspects of the EEMs and related work including, but not limited to: selecting the equipment; selecting contractors to perform the work; inspecting the work and the equipment; ensuring that the equipment is in good working order and condition; ensuring that the equipment is of the manufacture, design specifications, size and capacity selected by the Customer and that the same is properly installed and suitable for Customer's purposes; and determining if work was properly performed.

(d) Customer agrees and acknowledges that Program Administrator is not a manufacturer of, or regularly engaged in the sale or distribution of, or an expert with regard to, any equipment or work.

(e) By participating in the Program, the Customer acknowledges and agrees that no activity by the Program Administrator includes any kind of safety, code or other compliance review.

(f) The provisions of this Section 16 shall survive the termination, cancellation or completion of the Customer's participation in the Program.

### 17. Equipment, Contractor Selection and Contracting

Customer is responsible for selecting and purchasing the EEMs and selecting and contracting with the design and installation contractor(s). The Customer shall be responsible for enforcing all such contracts and for assuring that the EEMs meet Program requirements and applicable laws, regulations and codes, and that the contractor(s) are properly qualified, licensed and insured. Notwithstanding the foregoing, the Customer acknowledges that the Program Administrator reserves the right to deny a vendor or contractor to participate in this Program or provide equipment or services. The Program Administrator also has the right to exclude certain equipment from the Program.

### 18. Removal of Equipment

The Customer agrees, as a condition of participation in the Program to properly remove and dispose of or recycle the equipment, lamps and components in accordance with all applicable laws, regulations and codes. The Customer agrees not to re-install any of removed equipment in the state of Rhode Island or the service territory of any affiliate of the Program Administrator, and assumes all risk and liability associated with the reuse and disposal thereof.

### 19. Energy Benefits

Other than the energy cost savings realized by Customer, the Program Administrator is entitled to 100% of the benefits and rights associated with the EEMs, including without limitation ISO-NE products and all other attributes, credits or products associated therewith under any regional initiative or federal, state or local law, program or regulation or program, and Customer waives, and agrees not to seek, any right to the same.

### 20. Customer Must Declare and Pay All Taxes

The benefits conferred upon the Customer through participation in this Program may be taxable by the federal, state, and local government. The Customer is responsible for declaring and paying all such taxes. The Program Administrator is not responsible for the payment of any such taxes.

### 21. Counterpart Execution; Scanned Copy.

Any and all agreements and documents requiring signature related hereto may be executed in several counterparts, each of which, when executed, shall be deemed to be an original, but all of which together shall constitute one and the same instrument. A scanned or electronically reproduced copy or image of such agreements and documents bearing the signatures of the parties shall be deemed an original and may be introduced or submitted in any action or proceeding as competent evidence of the execution, terms and existence of such agreements and documents notwithstanding the failure or inability, to produce or tender an original, executed counterpart of the same and without the requirement that the unavailability of such original, executed counterpart of the same first be proven.

### 22. Miscellaneous

(a) Paragraph headings are for the convenience of the parties only and are not to be construed as part of these Terms and Conditions.

(b) If any provision of these Terms and Conditions is deemed invalid by any court or administrative body having jurisdiction, such ruling shall not invalidate any other provision, and the remaining provisions shall remain in full force and effect in accordance with their terms.

(c) These Terms and Conditions shall be interpreted and enforced according to the laws of the state of Rhode Island.

(d) In the event of any conflict or inconsistency between these Terms and Conditions and any Program Materials, these Terms and Conditions shall be controlling.

(e) Except as expressly provided herein, there shall be no modification or amendment to these Terms and Conditions or the Program Materials unless such modification or amendment is in writing and signed by a duly authorized officer of the Program Administrator.

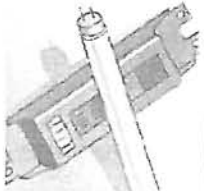


(f) The provisions of Sections 5, 7, 8, 9, 11, 13, 15, 16, 18, 19, 20, and 21 (including any other sections herein that specifies by its terms that it survives termination) shall survive the termination or expiration of the Customer's participation in the Program. Terms and Conditions

## LIGHTING SYSTEMS AND SENSORS - ELIGIBILITY REQUIREMENTS AND INCENTIVE DETAILS

Facility lighting must average a minimum of 2,000 hours per year, except for Municipal Facilities who must contact their Program Administrator for more information on eligibility requirements. All Fluorescent Fixtures must have new T8 or T5 lamps and new electronic ballasts. All Fluorescent Fixtures with High Performance (HP) T8 lamps and a list of qualifying lamps and ballasts, please log onto CEE's web site at [www.cee1.org](http://www.cee1.org).

All LED fixtures must meet *Design Lights Consortium (DLC) technical requirements as indicated per measure code*. For information on technical requirements visit [www.designlights.org](http://www.designlights.org).

**Table 1A: Lighting Systems Eligibility and Incentive Levels (Complete Table 1C for Lighting System Installations)**

Product Code	Measure Description	Per Fixture Incentive	Eligibility Criteria	Min Watts Saved	Image
10 *	Re-lamp/re-ballast of existing fixtures with new High Performance /Reduced Wattage (HP/RW) T8 or T5 lamps and HP/RW T8 Electronic Ballasts	\$10	Re-lamp/re-ballast of existing fixtures with T8 or T5 lamps, each fixture is composed of a ballast and 1, 2, 3 or 4 lamps. Only one incentive may be counted per fixture. Multiple fixtures served by a single ballast are only eligible for one incentive. Consider using reduced wattage 25 & 28 T8 CEE qualified lamps/ballasts.	11	
12 *	Re-lamp/re-ballast of existing fixtures with new High Performance /Reduced Wattage (HP/RW) T8 or T5 lamps and HP/RW T8 Electronic Ballasts	\$15	Re-lamp/re-ballast of existing fixtures with opportunity for increased savings with increased watts saved of more than 23 watts. Consider using reduced wattage 25 & 28 T8 CEE qualified lamps/ballasts.	23	
81D	LED Two-foot and Four-foot Linear Retrofit Tube Kits (one incentive per fixture). LED tubes that use the existing bi-pin fluorescent sockets are not eligible.	\$20	LED Two & Four foot Linear Retrofit Tube Kits and Driver. Eligible Retrofit LED Tube Kits are required to be listed by the Design Lights Consortium and must meet DLC Technical Requirements #36, #37.	10	
81	LED Four-foot Linear Retrofit Tube Kits (one incentive per fixture). LED tubes that use the existing bi-pin fluorescent sockets are not eligible.	\$30	LED Four-foot Linear Retrofit Tube Kits and Driver. Eligible Retrofit LED Tube Kits required to be listed by the Design Lights Consortium and must meet DLC Technical Requirements #36.	20	

**Table 1A.2: Commercial Interior Fixture Options**



25	LED or LEC (Electroluminescence) Exit Fixtures	\$15	All materials and assembled units shall comply with all applicable codes and standards including (but not limited to) Federal/State/Local building, fire, and electrical codes, and may require designated egress lighting to comply with such codes. Exit sign retrofit kits are not eligible.	15		
	High Efficiency 2 lamp Prismatic Lensed Fluorescent Fixtures - 2x2 or 2x4					Overall fixture efficiency must be > : -83% for 2x4 prismatic lensed fixture with two T8 or T5 lamps; -75% for 2x2 prismatic lensed fixture with two T8 or T5 lamps (reduced wattage biax lamps are eligible- 28 watts or less).
	High Efficiency 2 lamp Parabolic Fluorescent Fixtures - 2x2 or 2x4					
30	High Efficiency up to 2 lamp Indirect/Direct Fluorescent Fixtures - 2x2 or 2x4	\$30	Overall fixture efficiency must be > : -80% for 2x4 fixture with parabolic louver (2" to 3" deep cells) with two T8 or T5 lamps; -80% for 2x2 fixture with parabolic louver (2" to 3" deep cells) with two T8 or T5 lamps (reduced wattage biax lamps are eligible- 28 watts or less)	27		

Table 1A: Lighting Systems Eligibility and Incentive Levels (Complete Table 1C for Lighting System Installations)

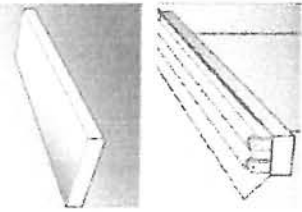
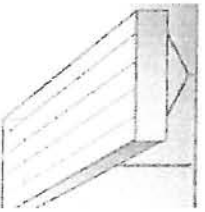
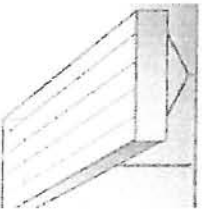



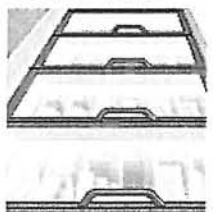
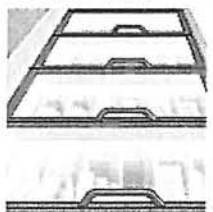
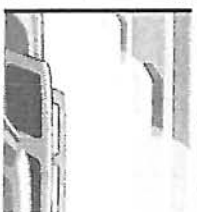
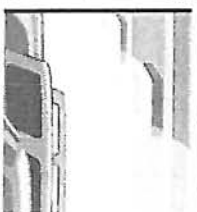


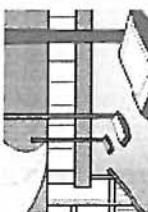
Product Code	Measure Description	Per Fixture Incentive	Eligibility Criteria	Min Watts Saved	Image
<b>Table 1A.3: Industrial Interior Fixture Options</b>					
41 *	Industrial/Commercial Fluorescent Fixtures – 4 ft. and 8 ft. Fixtures	\$30	<p>Overall fixture efficiency must be &gt; :</p> <ul style="list-style-type: none"> <li>- 85% for Industrial Reflector fixture with T8 or T5 lamps (up to 20% up-light);</li> <li>- 83% for Commercial Grade Wraparound fixture with one or two T8 or T5 lamps.</li> <li>- 85% for reflector kits with specular or semi-specular reflectors</li> </ul> <p>Reflector Kits for Existing Fixtures includes 2'x2', and 2'x4' reflector troffer kits, 4' and 8' strip channel, and industrial reflector kits. Applies to fixtures installed at or less than 16 feet above the floor. Only one incentive may be counted per fixture. Eight foot and multiple fixtures served by a single ballast are only eligible for one incentive.</p>	23	
56 *	High Intensity Fluorescent Fixtures (HIF) for Low Bay Applications (<= 195W)	\$45	<p>Minimum wattage is 96 Watts and Maximum wattage is 195 Watts. Minimum fixture efficiency must exceed 80%. Recommended mounting height &gt; 16 feet above the floor. High Intensity Fluorescent fixtures incorporate a number of lamp technologies that include T8, T5, T5HO and compact fluorescent. <b>Low power ballasts are not eligible.</b></p>	70	
57 *	High Intensity Fluorescent Fixtures (HIF) for High Bay Applications (>195W)	\$75	<p>Minimum wattage is greater than 195 Watts. Minimum fixture efficiency must exceed 80%. Recommended mounting height &gt; 20 feet above the floor. High Intensity Fluorescent fixtures incorporate a number of lamp technologies that include T8, T5, T5HO and compact fluorescent. <b>Low power ballasts are not eligible.</b></p>	95	
86A	LED Interior High Bay/Low Bay (20W - 99W)	\$100	<p>LED Interior High Bay/Low Bay - minimum 20W. Retrofit kits are eligible for this incentive. Eligible fixtures are required to be listed by the Design Lights Consortium and must meet DLC Technical Requirements #22, #23, #24 or if a retrofit kit #34, #35. Only one incentive per fixture or retrofit kit.</p>	60	
86B	LED Interior High Bay/Low Bay (100W - 199W)	\$200	<p>LED Interior High Bay/Low Bay - minimum 100W. Retrofit kits are eligible for this incentive. Eligible fixtures are required to be listed by the Design Lights Consortium and must meet DLC Technical Requirements #22, #23, #24 or if a retrofit kit #34, #35. Only one incentive per fixture or retrofit kit.</p>	150	
86C	LED Interior High Bay (>=200W)	\$300	<p>LED Interior High Bay/Low Bay - minimum 200W. <b>Retrofit kits are NOT eligible for this incentive.</b> Eligible fixtures are required to be listed by the Design Lights Consortium and must meet DLC Technical Requirements #22, #23, #24. Only one incentive per fixture.</p>	400	

Table 1A: Lighting Systems Eligibility and Incentive Levels (Complete Table 1C for Lighting System Installations)

Product Code	Measure Description	Per Fixture Incentive	Eligibility Criteria	Min Watts Saved	Image
<b>Table 1A.4: Outdoor / Exterior / Harsh Environment Fixture Options</b>					
43 *	Vapor Tight Fixtures –	\$50	Overall fixture efficiency must be > : - 70% for Vapor Tight fluorescent fixture with one or two T8, T5, T8HO, T5HO or 3-18 lamps. Eligible LED fixtures and retrofit kits are required to be listed by the Design Lights Consortium or must meet DLC Technical Requirements #5. All fixtures must be either IP64, IP65, IP66 rated or better. Only one incentive per fixture. Vapor tight fixtures are typically required in garage, warehouse, food prep and other industrial applications.	45	
44	Clean Room Rated Fixtures –	\$50	"Overall fixture efficiency must be > 75% for Clean Room fluorescent fixture with up to three T8 or T5 lamps. To be eligible for incentives, fixtures must be installed in a clean room rated environment. To be eligible fixtures must be clean room rated FS209D class 100, ISO class 5, IP65. Eligible LED fixtures and retrofit kits are required to be listed by the Design Lights Consortium or must meet DLC Technical Requirements #15, #16, #17, #18, #19, #20, #21, #31, #32, #33 Only one incentive per fixture.	37	
82A	LED Cooler, Freezer Case or Refrigerated Shelving Fixtures – 3' & 4' Fixture	\$40	Eligible LED Cooler and Freezer Case fixtures are required to be listed by the Design Lights Consortium and must meet DLC Technical Requirements #12, #13. Please specify quantity of end and/or center mount fixtures.	14	
82B	LED Cooler, Freezer Case or Refrigerated Shelving Fixtures – 5' & 6' Fixture	\$60	Eligible LED Cooler and Freezer Case fixtures are required to be listed by the Design Lights Consortium and must meet DLC Technical Requirements #12, #13. Please specify quantity of end and/or center mount fixtures.	23	
83A	LED Fixtures and Retrofit Kits for Parking Garage and Fuel Pump Canopy Luminaires (20W to 99W)	\$150	Eligible LED Fixtures or Retrofit Kits for LED Surface, Regressed, Canopy Mounted Vapor Tight Fixtures are required to be listed by the Design Lights Consortium and must meet DLC Technical Requirements Criteria #5, #6 or if a retrofit kit #29, #30 for retrofit kit with ingress protection IP65 rating.	60	
83B	LED Fixtures and Retrofit Kits for Parking Garage and Fuel Pump Canopy Luminaires (>=100W)	\$200	Eligible LED Fixtures or Retrofit Kits for LED Surface, Regressed, Canopy Mounted Vapor Tight Fixtures are required to be listed by the Design Lights Consortium and must meet DLC Technical Requirements Criteria #5, #6 or if a retrofit kit #29, #30 for retrofit kit with ingress protection IP65 rating.	100	
85A **	LED Outdoor Wall-Mounted /Pole/Arm-Mounted Area Fixtures (20W-99W)	\$100	LED Outdoor Area Fixtures- minimum 20W. Retrofit kits are eligible for this incentive. Eligible fixtures are required to be listed by the Design Lights Consortium and must meet DLC Technical Requirements #1, #2, #3 or if a retrofit kit #25, #26, #27, #28	60	
85B **	LED Outdoor Wall-Mounted /Pole/Arm-Mounted Area Fixtures (100W-199W)	\$200	LED Outdoor Area Fixtures- minimum 100W. Retrofit kits are eligible for this incentive. Eligible fixtures are required to be listed by the Design Lights Consortium and must meet DLC Technical Requirements #1, #2, #3 or if a retrofit kit #25, #26, #27, #28	150	
85C **	LED Outdoor Wall-Mounted /Pole/Arm-Mounted Area Fixtures (>=200W)	\$300	LED Outdoor Area Fixtures- minimum 200W. Retrofit kits are NOT eligible for this incentive. Eligible fixtures are required to be listed by the Design Lights Consortium and must meet DLC Technical Requirements #1, #2, #3	400	

**Table 1A: Lighting Systems Eligibility and Incentive Levels (Complete Table 1C for Lighting System Installations)**

Product Code	Measure Description	Per Fixture Incentive	Eligibility Criteria	Min Watts Saved	Image
90A	LED Landscape/Accent/Architectural Floods & Spot, Exterior Stairway, Step Light and Bollard Fixtures.	\$50	LED Landscape/Accent/Architectural Floods & Spot, Exterior Stairway, Step Light and Bollard Fixtures. Retrofit kits are eligible for this incentive. Eligible fixtures are required to be listed by the Design Lights Consortium or must meet DLC Technical Requirements #4, #7, #8, #9	25	
90B	LED Landscape/Accent/Architectural Floods & Spot, Exterior Stairway, Step Light and Bollard Fixtures.	\$75	LED Landscape/Accent/Architectural Floods & Spot, Exterior Stairway, Step Light and Bollard Fixtures. Retrofit kits are eligible for this incentive. Eligible fixtures are required to be listed by the Design Lights Consortium or must meet DLC Technical Requirements #4, #7, #8, #9	50	

\* Note: 4ft straight tube and U-bent T8 lamps and ballasts must meet the Consortium for Energy Efficiency's High Performance / Reduced Wattage (HP/RW) T8 specifications. For eligibility requirements and a list of eligible lamps and ballasts, log onto CEE's web site at [www.cee1.org](http://www.cee1.org).

\*\* This incentive does not apply to municipal street lighting. For municipal street lighting incentives, please contact your National Grid representative at 401-330-7834.

2ft and 3ft, T8 and T5 lamps must have a minimum efficacy of 75 mean lumens per watt, a CRI greater than 80 and an average rated life of 24,000 hours at 3 hours per start.  
 2ft, 3ft and 4ft 30 watt U-bent T8 ballasts must meet the CEE's High Performance T8 Ballast Specifications.  
 2ft – reduced wattage bias lamps must have a minimum efficacy of 94 mean lumens per watt, a CRI greater than 80 and an average rated life of 20,000 hours at 3 hours per start. Ballasts must meet the CEE's High Performance T8 Ballast Specifications.

*National Grid does not warrant or accept any liability whatsoever for LED 4ft or 2ft Linear Retrofit Kits that receive incentives through our energy efficiency programs. Customers are responsible for the proper modification and installation of LED 4ft and 2ft Linear Retrofit Kits in existing fixtures in accordance with manufacturer's instructions. Customers should be aware that fixture modifications may void fixture warranty. Customers are responsible for proper labeling of all modified existing fixtures.*

*It is the responsibility of the lighting installers to meet current Illuminating Engineering Society standards for light levels, light distribution, uniformity and lighting quality for all installations that use these prescriptive technologies.*

*DesignLights Consortium qualified LED products list and technical requirements can be found at: [www.designlights.org](http://www.designlights.org)*



# Lighting Systems & Sensors Application

## 2015 Retrofit Program

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HERE WITH YOU. HERE FOR YOU.

The Retrofit Program is designed for commercial and industrial customers to help replace aging, inefficient equipment and systems with energy efficient technologies. The Retrofit Program provides a customer with incentives and technical services that will facilitate the installation of premium efficient equipment. Call National Grid to arrange a convenient time to perform an inspection of the existing equipment or systems.

### Prescriptive Retrofit Application & Instructions For Replacement of Operating Equipment

1. Is your project eligible?
  - Equipment shall be new and shall be installed in a commercial, industrial, institutional, educational, or municipal building within National Grid's electric service territory
2. Is the equipment you intend to buy eligible?
  - Product types listed in this form are eligible for prescriptive incentives. However, other measures not listed here may be eligible for custom incentives using the Custom Retrofit Application

#### 3. Pre-Approval requirements:

- Contact your National Grid representative before purchasing and installing the equipment
- To see if the energy efficient measure (EEM) qualifies for an incentive:
  - i. Review the Terms and Conditions governing the program, then submit a completed application form with an authorized signature
  - ii. Submit a copy of the Manufacturer's technical specification sheets ("cut sheets") for each type of eligible equipment to be purchased
  - iii. Once pre-approved, a "pre-approved incentive letter" will be issued

#### 4. Installation and incentive requirements:

- Once pre-approved, purchase and install the qualifying equipment within twelve (12) months of National Grid's pre-approval
- Return the required information to your National Grid representative within 30 days of the installation:
  - i. A copy of the completed and signed pre-approval application
  - ii. If there is a change in equipment, please submit a new manufacturer's technical specification sheet ("cut sheet") for each type of eligible equipment purchased
  - iii. A copy of your invoice indicating Proof of Purchase must indicate type, size, make, and model number of the equipment and date of purchase and installation
  - iv. At the post-installation verification, the customer is required to sign the post-installation customer acknowledgement section of the original application

#### Program details:

This incentive program covers applications created on or after January 1, 2015. Details of this Program, including incentive levels, are subject to change without prior notice. Contact National Grid for the latest program details.

P.O. BOX 947  
62-A DANIELSON PIKE  
NORTH SCITUATE, RI 02857

**NOLIN ELECTRIC, INC.**  
COMMERCIAL / INDUSTRIAL / RESIDENTIAL ELECTRICAL CONTRACTORS



OFFICE: (401) 647-5478 • FAX: (401) 647-2780 • WWW.NOLINELECTRIC.NET • INFO@NOLINELECTRIC.NET


GIP

**Invoice**

#1680

**Location:**  
Austin Levy School  
135 Harrisville Main St  
Harrisville, RI 02830

**Bill To:**  
Burrillville School District  
2300 Bronco Highway  
Harrisville, R. I. 02830

Date	Invoice #	Due Date	Customer PO #	Project
7/20/2015	4484	8/19/2015	315243	Ceiling and Lighting Project
Description				
Est Amt	Prior %	Curr % Billed	Amount	
1,000.00	100.00%	100.00%	1,000.00	Mobilization
8,000.00	18.75%	18.75%	1,500.00	Rough Wiring
18,000.00	27.78%	27.78%	5,000.00	New Ceilings
35,000.00	42.86%	14.29%	5,000.00	Lighting Fixtures
Thank you for your business.				
				
<b>Total Invoice</b>		\$12,500.00		
<b>Payments/Credits</b>		\$0.00		
<b>Total Job Invoiced Due</b>		\$28,200.00		
<b>Current Invoice Amount Due</b>		\$12,500.00		

**APPLICATION AND CERTIFICATE FOR PAYMENT**

TO OWNER:  
 Burrillville School Department  
 2300 Bronco Highway  
 Harrisville, RI 02830  
 FROM CONTRACTOR:  
 Nolin Electric, Inc.  
 PO Box 947  
 North Scituate, RI 02857

PROJECT:  
 ATL Ceiling & Lighting Project  
 VIA ARCHITECT:

APPLICATION #: 3  
 PERIOD TO: 06/30/15  
 PROJECT NOS: 315243  
 CONTRACT DATE: 03/16/15

Distribution to:  
 Owner  
 Const. Mgr  
 Architect  
 Contractor

**CONTRACTOR'S APPLICATION FOR PAYMENT**

Application is made for payment, as shown below, in connection with the Contract.  
 Continuation Sheet is attached.

1. ORIGINAL CONTRACT SUM ----- \$ 76,304.00  
 2. Net change by Change Orders ----- \$ 14,575.00  
 3. CONTRACT SUM TO DATE (Line 1 +/- 2) ----- \$ 90,879.00  
 4. TOTAL COMPLETED & STORED TO DATE-\$ ----- 32,500.00  
 (Column G on Continuation Sheet)

5. RETAINAGE:  
 a. \_\_\_\_\_ of Completed Work \$ \_\_\_\_\_  
 (Columns D+E on Continuation Sheet)  
 b. \_\_\_\_\_ of Stored Material \$ \_\_\_\_\_  
 (Column F on Continuation Sheet)  
 Total Retainage (Line 5a + 5b or

Total in Column 1 of Continuation Sheet ----- \$ \_\_\_\_\_  
 6. TOTAL EARNED LESS RETAINAGE ----- \$ 32,500.00  
 (Line 4 less Line 5 Total)

7. LESS PREVIOUS CERTIFICATES FOR PAYMENT  
 (Line 6 from prior Certificate) ----- \$ 20,000.00

8. CURRENT PAYMENT DUE ----- \$ 12,500.00  
 (Line 3 less Line 6) \$ 58,379.00

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$10,665.00	
Total approved this Month	\$3,910.00	
<b>TOTALS</b>	<b>\$14,575.00</b>	
<b>NET CHANGES by Change Order</b>	<b>\$14,575.00</b>	

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown therein is now due.

CONTRACTOR:

By: \_\_\_\_\_ Date: \_\_\_\_\_

State of: \_\_\_\_\_  
 County of: \_\_\_\_\_  
 Subscribed and sworn to before  
 me this \_\_\_\_\_ day of \_\_\_\_\_

Notary Public: \_\_\_\_\_  
 My Commission expires: \_\_\_\_\_

**CERTIFICATE FOR PAYMENT**

In accordance with Contract Documents, based on on-site observations and the data comprising application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED 32,500.00 12,500

(Attach explanation if amount certified differs from the amount applied for. Initial all figures on this application and on the Continuation Sheet that are changed to conform to the amount certified.)

ARCHITECT: *[Signature]* Date: 2/30/15

By: \_\_\_\_\_ Date: \_\_\_\_\_  
 This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner of Contractor under this Contract.

P.O. BOX 947  
62-A DANIELSON PIKE  
NORTH SCITUATE, RI 02857

**NOLIN ELECTRIC, INC.**  
COMMERCIAL / INDUSTRIAL / RESIDENTIAL ELECTRICAL CONTRACTORS



OFFICE: (401) 647-5478 • FAX: (401) 647-2780 • WWW.NOLINELECTRIC.NET • INFO@NOLINELECTRIC.NET

# Invoice 4503

Bill To:

Burrville School District  
2300 Bronco Highway  
Harrisville, R. I. 02830

Project Location:  
Austin Levy School  
135 Harrisville Main St  
Harrisville, RI 02830

# 680

Date	AIA No.	Terms	Customer PO	Project
7/30/2015	315243	Net 30	315243	Ceiling and Lighting Project

Description		Est Amt	Invoice %	Invoice Amt
Rough Wiring		8,000.00	81.25%	6,500.00
New Lighting Circuits		8,000.00	100.00%	8,000.00
New Ceilings		18,000.00	72.22%	13,000.00
Lighting Fixtures		35,000.00	42.86%	15,000.00
Finish Wiring		1,304.00	100.00%	1,304.00
CO #00598 Approved 5/14/2015		6,265.00	100.00%	6,265.00
CO #00574 Approved 5/14/2015		4,400.00	100.00%	4,400.00
CO #00665 Approved 6/22/2015		3,910.00	100.00%	3,910.00

Current Due	Payments/Credits	Amt Due This Invoice
\$58,379.00	\$0.00	\$58,379.00

Thank you for your business.

QIP

**APPLICATION AND CERTIFICATE FOR PAYMENT**

**TO OWNER:**  
 Burntville School Department  
 2300 Bronco Highway  
 Harrisville, RI 02830  
**FROM CONTRACTOR:**  
 Nolin Electric, Inc.  
 PO Box 947  
 North Scituate, RI 02857

**PROJECT:**  
 ATL Ceiling & Lighting Project

**VIA ARCHITECT:**

**APPLICATION #:** 4  
**PERIOD TO:** 07/31/15  
**PROJECT NOS:** 315243  
**CONTRACT DATE:** 03/16/15

**Distribution to:**  
 Owner  
 Const. Mgr  
 Architect  
 Contractor

**CONTRACT FOR:** ATL Ceiling & Lighting Project

**CONTRACTOR'S APPLICATION FOR PAYMENT**

Application is made for payment, as shown below, in connection with the Contract. Continuation Sheet is attached.

1. ORIGINAL CONTRACT SUM ----- \$ 76,304.00  
 2. Net change by Change Orders ----- \$ 14,575.00  
 3. CONTRACT SUM TO DATE (Line 1 +/- 2) ----- \$ 90,879.00  
 4. TOTAL COMPLETED & STORED TO DATE-\$ (Column G on Continuation Sheet) ----- \$ 90,879.00

**5. RETAINAGE:**

a. \_\_\_\_\_ of Completed Work (Columns D+E on Continuation Sheet) \$ \_\_\_\_\_  
 b. \_\_\_\_\_ of Stored Material (Column F on Continuation Sheet) \$ \_\_\_\_\_  
 Total Retainage (Line 5a + 5b or Total in Column 1 of Continuation Sheet) ----- \$ \_\_\_\_\_

6. TOTAL EARNED LESS RETAINAGE ----- \$ 90,879.00  
 (Line 4 less Line 5 Total)

7. LESS PREVIOUS CERTIFICATES FOR PAYMENT  
 (Line 6 from prior Certificate) ----- \$ 32,500.00  
 1. CURRENT PAYMENT DUE ----- \$ 58,379.00  
 2. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6) ----- \$ \_\_\_\_\_

CHANGE ORDER SUMMARY		ADDITIONS	DEDUCTIONS
changes approved in previous		\$14,575.00	
by Owner			
Approved this Month			
<b>TOTALS</b>		\$14,575.00	
ANGES by Change Order		\$14,575.00	

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown therein is now due.

**CONTRACTOR:**

By: \_\_\_\_\_ Date: \_\_\_\_\_

State of: \_\_\_\_\_  
 County of: \_\_\_\_\_  
 Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_

Notary Public: \_\_\_\_\_  
 My Commission expires: \_\_\_\_\_

**CERTIFICATE FOR PAYMENT**

In accordance with Contract Documents, based on on-site observations and the data comprising application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

**AMOUNT CERTIFIED** ----- \$ \_\_\_\_\_  
 (Attach explanation if amount certified differs from the amount applied for. Initial all figures on this application and on the Continuation Sheet that are changed to conform to the amount certified.)

**ARCHITECT:**

By: \_\_\_\_\_ Date: \_\_\_\_\_

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner of Contractor under this Contract.

**CONTINUATION SHEET**

ATTACHMENT TO PAY APPLICATION

Page 2 of 2 Pages

PROJECT:  
ATL Ceiling & Lighting Project

APPLICATION NUMBER: 4  
APPLICATION DATE: 07/30/15  
PERIOD TO: 31-Jul-15  
ARCHITECTS PROJECT NO: 315243

A Item No.	B Description of Work	C Scheduled Value	D Work Completed		E This Period	F Materials Presently Stored (Not in D or E)	G Total Completed And Stored To Date (D + E + F)		H Balance To Finish (C - G)	I Retainage
			From Previous Application (D + E)	This Period			Total Completed And Stored To Date (D + E + F)	% (G/C)		
1	Preconstruction	2,500.00	2,500.00				2,500.00	100%		
2	Drawings, Submittals & Meetings	2,500.00	2,500.00				2,500.00	100%		
3	Mobilization	1,000.00	1,000.00				1,000.00	100%		
4	Rough Wiring	8,000.00	1,500.00	6,500.00			8,000.00	100%		
5	New Lighting Circuits	8,000.00		8,000.00			8,000.00	100%		
6	New Ceilings	18,000.00	5,000.00	13,000.00			18,000.00	100%		
7	Lighting Fixtures	35,000.00	20,000.00	15,000.00			35,000.00	100%		
8	Finish Wiring	1,304.00		1,304.00			1,304.00	100%		
9	Change Order #1	4,400.00		4,400.00			4,400.00	100%		
10	Change Order #2	6,265.00		6,265.00			6,265.00	100%		
11	Change Order #3	3,910.00		3,910.00			3,910.00	100%		
12										
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28										
	SUBTOTALS PAGE 2	90,879.00	32,500.00	58,379.00			90,879.00	100%		

# Lighting Systems & Sensors Application 2015 Retrofit

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ALL FIELDS ON THIS PAGE ARE REQUIRED TO COMPLETE YOUR APPLICATION.

## CUSTOMER/ACCOUNT HOLDER INFORMATION

COMPANY NAME Burrillville School District		CONTACT PERSON David Fontes		APPLICATION DATE 10/20/2015	
INSTALL SITE BHS		PHONE 568-1301	FAX NUMBER 568-1337		
EMAIL ADDRESS Fontesd@bsd-ri.net		SQUARE FEET (COVERED BY THIS APPLICATION) 230,000			
STREET ADDRESS 425 East Ave		CITY Harrisville	STATE RI	ZIP 02830	
MAILING ADDRESS (IF DIFFERENT)		CITY	STATE	ZIP	
ELECTRIC COMPANY NAME National Grid <i>PUD</i>		ELECTRIC ACCOUNT NUMBER (OR COPY OF ELECTRIC BILL) 104161004 . PUD			
GAS COMPANY NAME Delivered Fuels		GAS ACCOUNT NUMBER (OR COPY OF GAS BILL)			
BUILDING TYPE (PLEASE PLACE "X" IN APPROPRIATE BALLOT BOX)					
<input type="checkbox"/> ASSEMBLY	<input type="checkbox"/> FAST FOOD	<input type="checkbox"/> HOTEL	<input type="checkbox"/> MULTI-STORY RETAIL	<input type="checkbox"/> RELIGIOUS	<input type="checkbox"/> SMALL RETAIL
<input type="checkbox"/> AUTOMOTIVE	<input type="checkbox"/> FULL SERVICE RESTAURANT	<input type="checkbox"/> LARGE REFRIGERATED STORAGE	<input type="checkbox"/> MULTIFAMILY HIGH-RISE	<input checked="" type="checkbox"/> K-12 SCHOOL	<input type="checkbox"/> UNIVERSITY
<input type="checkbox"/> BIG BOX	<input type="checkbox"/> GROCERY	<input type="checkbox"/> LARGE OFFICE	<input type="checkbox"/> MULTIFAMILY LOW-RISE	<input type="checkbox"/> SMALL OFFICE	<input type="checkbox"/> WAREHOUSE
<input type="checkbox"/> COMMUNITY COLLEGE	<input type="checkbox"/> HEAVY INDUSTRIAL	<input type="checkbox"/> LIGHT INDUSTRIAL	<input type="checkbox"/> OTHER:		
<input type="checkbox"/> DORMITORY	<input type="checkbox"/> HOSPITAL	<input type="checkbox"/> MOTEL			

## PAYMENT METHOD (PAYEE MUST SUBMIT A W-9 FORM)

PAYMENT TO: <input checked="" type="checkbox"/> CUSTOMER <input type="checkbox"/> VENDOR/INSTALLER	CUSTOMER - TAX ID# (REQUIRED) 05-6000048	VENDOR/INSTALLER - TAX ID# (REQUIRED IF RECEIVING INCENTIVE)
CHECK PAYABLE TO: Burrillville School Department	CUSTOMER COMPANY TYPE: <input type="checkbox"/> INC. <input type="checkbox"/> NOT INCORP. <input checked="" type="checkbox"/> EXEMPT	VENDOR COMPANY TYPE: <input type="checkbox"/> INC. <input type="checkbox"/> NOT INCORP. <input type="checkbox"/> EXEMPT

## VENDOR INFORMATION

AUTHORIZED VENDOR/INSTALLER Nolan Electric	CONTACT NAME Jeff Nolan		
STREET ADDRESS 62 Danielson Pike	CITY North Scituate	STATE RI	ZIP 02857
PHONE 647-5478	EMAIL ADDRESS		
DATE	AUTHORIZED VENDOR/INSTALLER SIGNATURE (NOT APPLICABLE IF CUSTOMER IS PAYEE) <b>X</b>		

## CUSTOMER ACCEPTANCE OF TERMS

PRE-INSTALLATION		ANTICIPATED COMPLETION DATE
<input checked="" type="checkbox"/> I CERTIFY THAT ALL STATEMENTS MADE IN THIS APPLICATION ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT I HAVE READ AND AGREE TO THE TERMS AND CONDITIONS ON THE BACK OF THIS FORM.		12/4/2015
DATE 10/20/2015	PRINT NAME David Fontes	AUTHORIZED SIGNATURE <b>X</b> <i>[Signature]</i>
POST-INSTALLATION		
<input type="checkbox"/> I CERTIFY THAT I HAVE SEEN THE ENERGY EFFICIENCY MEASURES THAT HAVE BEEN INSTALLED AND I AM SATISFIED WITH THEIR INSTALLATION.		
DATE	PRINT NAME	AUTHORIZED SIGNATURE <b>X</b>

**Table 1C: Retrofit Lighting Systems Inventory Worksheet**

Building and Room Identification (Installation Site): BHS Exterior exits

	Existing Fixtures (Historic only)				Proposed Fixtures				Total Incentive \$				
	Location	Qty	Lamp/Ballast Description	*Device Code	Existing Watts per Fixture/Device	Product Code (Table 1A)	Qty	Lamp/Ballast Description		*Device Code	Proposed Watts per Fixture/Device	**Annual Operating Hours	Unit Incentive \$
Ex.	Lobby-East Entrance	4	4' 3 lamp T12 Magnetic	3F40SEM	110 watts	12	4	4' 2 lamp 28 watt RW T8 w/ LP Electronic Ballast	2F28EEL	42 watts	3,200 hours	\$15	\$60
1													
2	BHS exterior	36	70W HPS ext. lts	1H0070S	70	90B	36	12 W LED	1L012	12	3650	\$75	2700
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
<b>Total Requested Incentive (this page):</b>													\$2,700

NOTE: An electronic version (Excel) of this sheet must be submitted for inventories exceeding this page.

\* The Device Code list is available at [http://www.nationalgrid.com/files/AccessedPDF/0AVRIL/lighting\\_code\\_list.pdf](http://www.nationalgrid.com/files/AccessedPDF/0AVRIL/lighting_code_list.pdf).

\*\* Facility lighting must average a minimum of 2,000 hours per year, except Municipal Facilities who must contact their Program Administrator for more information on eligibility requirements.



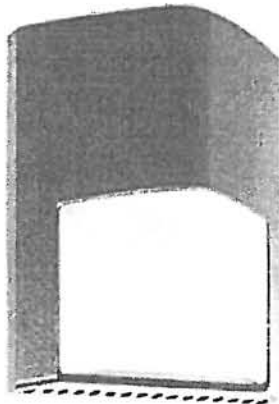
**Table 1D: Lighting Sensor Inventory Worksheet**

Burrillville High School  
 Building and Room Identification (Installation Site):

Ex.	Location of Sensors	Product Code (Table 1B)	Sensor Description	Qty of Sensors	# of Fixtures Controlled by Sensors	Fixture Description	Total Wattage per Sensor	Annual Hours of Operation	Unit Incentive \$	Total Incentive \$
	Lobby-East Entrance	61	Occupancy Sensor Remote Mount	1	5	(4) 4' 2 lamp T8 Electronic & (1) 26 Watt Compact HW	196 watts	1040 hours	\$40	\$40
1	A wing boys restroom	61	Occupancy Sensor Remote Mount	1	7	(3) F40 biax, (4) 1 lamp T8	312	3,920	\$40.00	\$40.00
2	A wing girls restroom	61	Occupancy Sensor Remote Mount	1	7	(4) F40 biax, (3) 1 lamp T8	384	3,920	\$40.00	\$40.00
3	B wing boys restroom	61	Occupancy Sensor Remote Mount	1	4	(2) F40 biax, (2) 1 lamp T8	208	3,920	\$40.00	\$40.00
4	B wing girls restroom	61	Occupancy Sensor Remote Mount	1	5	(2) F40 biax, (3) 1 lamp T8	240	3,920	\$40.00	\$40.00
5	C wing boys restroom	61	Occupancy Sensor Remote Mount	1	3	(1) F40 biax, (2) 1 lamp T8	136	3,920	\$40.00	\$40.00
6	C wing girls restroom	61	Occupancy Sensor Remote Mount	1	4	(2) F40 biax, (1) 1 lamp T8	176	3,920	\$40.00	\$40.00
7	D wing boys restroom	61	Occupancy Sensor Remote Mount	1	8	(4) F40 biax, (4) 1 lamp T8	416	3,920	\$40.00	\$40.00
8	D wing girls restroom	61	Occupancy Sensor Remote Mount	1	8	(4) F40 biax, (4) 1 lamp T8	416	3,920	\$40.00	\$40.00
9	E wing boys restroom	61	Occupancy Sensor Remote Mount	1	3	(2) F40 biax, (1) 1 lamp T8	176	3,920	\$40.00	\$40.00
10	E wing boys restroom	61	Occupancy Sensor Remote Mount	1	3	(2) F40 biax, (1) 1 lamp T8	176	3,920	\$40.00	\$40.00
11	G wing boys restroom	61	Occupancy Sensor Remote Mount	1	8	(4) F40 biax, (4) 1 lamp T8	416	3,920	\$40.00	\$40.00
12	G wing girls restroom	61	Occupancy Sensor Remote Mount	1	8	(4) F40 biax, (4) 1 lamp T8	416	3,920	\$40.00	\$40.00
13	G LR boys	61	Occupancy Sensor Remote Mount	1	24	(12) F40 biax, (4) 1 lamp T8, (8) 26watt	1,200	3,920	\$40.00	\$40.00
14	G locker room girls	61	Occupancy Sensor Remote Mount	1	28	(12) F40 biax, (4) 1 lamp T8, (12) 26watt	1,304	3,920	\$40.00	\$40.00
15	Dome boys locker room	61	Occupancy Sensor Remote Mount	1	6	(6) 2 lamp 4'	384	3,920	\$40.00	\$40.00
16	Dome girls locker room	61	Occupancy Sensor Remote Mount	1	9	(9) 2 lamp 4'	576	3,920	\$40.00	\$40.00
17	PE gym	61	Occupancy Sensor Remote Mount	1	12	5 lamp T8 4'	1,920	3,920	\$40.00	\$40.00
18	PE gym	61	Occupancy Sensor Remote Mount	1	12	5 lamp T8 4'	1,920	3,920	\$40.00	\$40.00
19	Dome gym	61	Occupancy Sensor Remote Mount	1	10	4 lamp T8 4'	1,280	3,920	\$40.00	\$40.00
20	Dome gym	61	Occupancy Sensor Remote Mount	1	10	4 lamp T8 4'	1,280	3,920	\$40.00	\$40.00
<b>Total Requested Incentive (this page):</b>									<b>\$560.00</b>	

Note: An electronic version (Excel) of this sheet must be submitted for inventories exceeding this page.

# ENTRA12



Project:

Type:

Prepared By:

Date:

### Driver Info

Type:	Constant Current
120V:	0.3A
208V:	0.3A
240V:	0.3A
277V:	0.3A
Input W.tts:	14W
Efficiency:	83%

### LED Info

Watts:	12W
Color Temp:	5000K (Cool)
Color Accuracy:	70 CRI
L70 Lifespan:	100,000
Lumens:	1,284
Efficacy:	89 LPW

Affordable, high-performance, low-maintenance LED doorway light. Suitable for mounting heights up to 10', and replaces 70W high pressure sodium. 100,000-Hour LED lifespan. 5-Year warranty.

Color: Bronze

Weight: 3.0 lbs

## Technical Specifications

### Listings

#### UL Listing:

Suitable for wet locations as downlight. Suitable for mounting within 1.2m (4ft) of the ground.

#### ADA Compliant:

ENTRA™ is ADA Compliant.

#### IESNA LM-79 & LM-80 Testing:

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

#### Other

#### ENERGY STAR:

This product is ENERGY STAR® qualified.

#### Reflectors (2):

White aluminum reflector topped with vacuum metalized polycarbonate LED reflector.

#### California Title 24:

ENTRA12 complies with 2013 California Title 24 building and electrical codes as a residential outdoor fixture. See ENTRAI2/PC for a model that complies as a commercial outdoor non-pole-mounted fixture ≤ 30 Watts.

#### Equivalency:

ENTRA™ 12W replaces 70W high pressure sodium.

#### Patents:

The design of the ENTRAI™ is protected by patents pending in US, 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 five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

### Construction

#### IP Rating:

Ingress Protection rating of IP66 for dust and water.

#### Cold Weather Starting:

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

#### Ambient Temperature:

Suitable for use in 40°C (104°F) ambient temperatures.

#### Thermal Management:

Superior thermal management with internal Air-Flow fins and external air vents.

#### Back Housing:

Die-cast aluminum.

#### Lens/Housing Cover:

Vandal resistant polycarbonate molded housing cover and lens.

#### Mounting:

Heavy die cast aluminum with 1/2" back knockout and mounting template for mounting to 4" box.

#### Recommended Mounting Height:

Up to 10 ft.

#### Gaskets:

High-temperature silicone.

### Finish:

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

### Green Technology:

Mercury and UV free, and RoHS compliant.

### LED Characteristics

#### LED:

12W multi-chip, long life LED.

#### Lifespan:

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

#### Correlated Color Temp. (Nominal CCT):

5000K

#### Color Stability:

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

#### Color Consistency:

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

### Electrical

#### Driver:

Constant Current, Class 2, 100-277V, 50/60Hz, 4kV Surge Protection, 350mA, 100-240VAC: 0.3 - 0.15 A, 277VAC: 0.15 A, Power Factor: 98.5%.

# ENTRA12

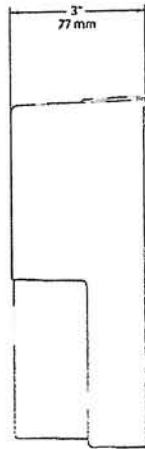
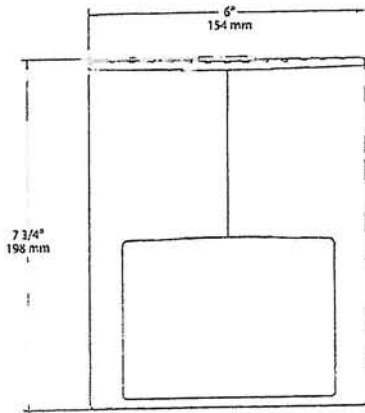
## Technical Specifications (continued)

### Electrical

THD:

9.9% at 120V

### Dimensions



### Features

- Save over \$700 in energy costs over life of fixture
- Equivalent to 70W high pressure sodium
- Durable vandal-resistant polycarbonate housing
- Low-profile and ADA compliant
- 100,000-hour LED lifespan
- 5-Year warranty

### Ordering Matrix

Family	Watts	Color Temp	Finish	Photocell
ENTRA	12 12 = 12W	= Cool Y = Warm N = Neutral	= Bronze W = White	/PC = 120V Button /PC2 = 277V Button /PCS = 120V Swivel /PCS2 = 277V Swivel

# sensorswitch

## CM 9

### STANDARD RANGE 360° SENSOR CEILING MOUNT • LOW VOLTAGE • PASSIVE INFRARED (PIR)

#### SPECIFICATIONS

##### FEATURES

- 100% Digital PIR Detection, Excellent RF Immunity
- 360° Coverage Pattern
- Push-Button Programmable
- User Adjustable Time Delays
- No Field Calibration or Sensitivity Adjustments Required
- Convenient Test Mode
- 100 hr Lamp Burn-in Timer
- Green LED Indicator

- Protects Lamp Life while Maximizing Energy Savings
- Minimum On Timer (15 min default)
- Occ. Time Delay (10 min default)
- LampMaximizer+ Mode - Optimizes Lamp Life & Energy Savings (disabled by default)
- Switch Counter (in 1000's)
- Total Lamp On Time (in khrs)

##### PHYSICAL SPECS

4.55" Dia. (11.56 cm)  
1.55" Deep (3.94 cm)  
6 oz

Ceiling Tile Surface  
3.5" Octagon Box  
Single Gang Handy Box  
White

##### ELECTRICAL SPECS

12-24 VAC/VDC

Standard, 4 mA  
w/ R option, 16 mA

• Sinks < 20mA;  
~40 Ballasts @ .5mA each

PP20

##### ENVIRONMENTAL SPECS

14° to 160° F (-10° to 71° C)

-14° to 160° F (-26° to 71° C)

20 to 90% non-condensing

##### OVERVIEW

The CM 9 Series occupancy sensor offers amazing performance and sensitivity to small motions for a standard range Passive Infrared (PIR) sensor. Ideal for small rooms with drop ceilings and areas without obstructions, the CM 9 is a snap to install. Its light weight allows surface mounting to drop ceilings or a ceiling grid. The CM 9 sensor can cover entire private offices or smaller rooms by itself, however it is also the ideal lead sensor for odd shaped rooms. For example, a CM 9 in a restroom vestibule can communicate with a CM PDT 9 Dual Technology sensor in a main stall area. Another application is a CM 9 covering an entrance hall to a classroom and communicating with a WV PDT 16 sensor covering the main room. In both cases the lights would be activated on by the CM 9. For mounting above 15 ft (4.57 m), see the CM 6 Technical Data Sheet.

##### SENSOR OPERATION

The sensor detects changes in the infrared energy given off by occupants as they move within the field-of-view. When occupancy is detected, a DC output goes high and can drive up to 200 mA of connected load. The sensor is powered with 12-24 VAC/VDC and typically operates with a PP20 or MP20 power pack, enabling complete 20 Amp circuits to be controlled. This innovative sensor requires no field calibration or sensitivity adjustments.

##### LAMPMAXIMIZER®

This sensor also contains patent pending LampMaximizer technology that allows users to aggressively target energy savings while still protecting lamp life. A minimum on timer, factory set at 15 minutes, helps preserve lamp life by eliminating all lamp cycles shorter than lamp manufacturer recommendations.

A standard occupancy time delay is also present that ensures lights turn off (assuming minimum on timer has elapsed) if no occupancy is detected. This timer is factory set at 10 minutes to promote energy savings, but is adjustable between 30 seconds and 20 minutes. These adjustments can be done manually, through the unit's push-button, or automatically every two weeks through an advanced mode, called LampMaximizer+, that determines the optimum time delay in order to maximize both lamp life and energy savings. Additionally, this sensor maintains statistics on total lamp on time and number of cycles.

#### OPTIONS

##### LOW VOLTAGE RELAY (R)

- Enables sensors to interface with other systems (e.g., BMS, lighting panels)
- Provides dry contact closure via a SPDT, 1 Amp, 40 Volt relay
- Only one relay needed per zone
- Changes state when all connected sensors register unoccupied
- Relay requires sensor power to function

##### OCCUPANCY CONTROLLED DIMMING (D)

- Provides dimming output to control 0-10 VDC dimmable ballasts
- Provides a second occupancy time-out period that enables the lights to go to a dim setting before turning off
- Adjustable max/min dim setting
- Only one sensor per zone needs to have dimming output

##### PHOTOCELL (P)

- Auto set-point calibration
- Two selectable modes of operation
- On/Off mode: Photocell has full control during periods of occupancy
- Inhibit mode: Photocell can prevent lights from turning on if adequate daylight is available, but cannot turn lights off

##### PHOTOCELL W/ DIMMING (ADC)

- Photocell within sensor maintains total room light level by controlling levels of 0-10 VDC dimmable ballasts
- Photocell also has full on/off control during periods of occupancy
- Provides a second occupancy time-out period that enables the lights to go to a dim setting before turning off

Note: LampMaximizer+ features not available with ADC option

##### LOW TEMP/HIGH HUMIDITY (LT)

- Sensor is corrosion resistant to moisture
- Operates down to -40° F/C



TITLE 24  
MADE in U.S.A.  
5 YEAR WARRANTY

#### ORDERING INFO CM 9 [RELAY] [DIMMING/PHOTOCELL] [TEMP/HUMIDITY]

##### RELAY

Blank = None

R = Low Voltage Relay

##### DIMMING / PHOTOCELL CHOOSE ONE ONLY

Blank = None

D = Occupancy Controlled Dimming

P = Photocell

ADC = Photocell w/ Dimming

##### TEMP/HUMIDITY

Blank = Standard

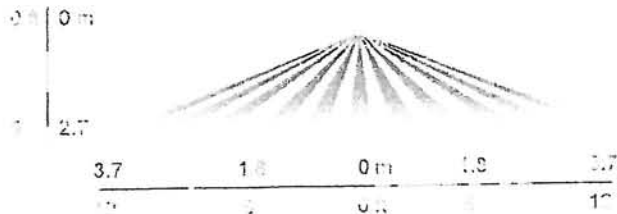
LT = Low Temp

## COVERAGE PATTERN

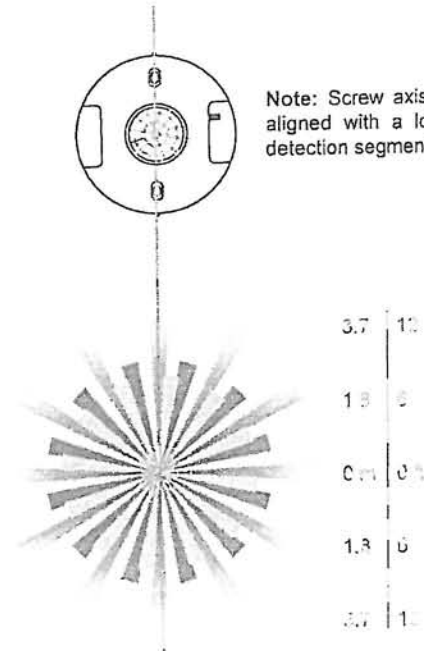
### 9 STANDARD RANGE 360° LENS

- Best choice for small motion (e.g. hand movements) detection
- Viewing angle of 56° in a 360° conical shaped pattern
- Provides 12 ft (3.66 m) radial coverage when mounted to standard 9 ft (2.74 m) ceiling
- 8 to 15 ft (2.44 to 4.57 m) mounting heights provide 10 to 20 ft (3.05 to 6.10 m) radial coverage

SIDE VIEW



TOP VIEW



Note: Screw axis is aligned with a long detection segment

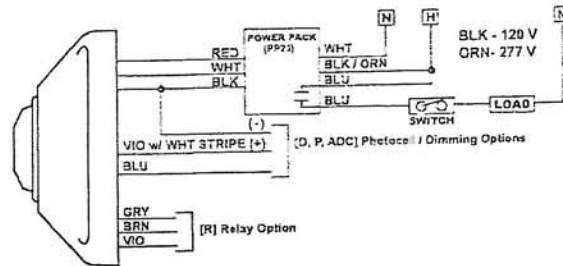
## WIRING (DO NOT WIRE HOT)

### STANDARD WIRING

- RED - Power Input (12-24 VAC/VDC)
- BLACK - Common
- WHITE - Occupancy State (high VDC for occupied)

### PHOTOCELL/DIMMING OPTIONS (D, P, ADC)

- BLUE - Direct output to power pack for providing photocell control and/or secondary dim time out. Output is high VDC with occupancy & low light. Output also held high during secondary dim time out. For multi-level control, use two power packs and connect White wire to primary load and Blue to daylight load.
- VIOLET w/ WHITE STRIPE - Connect to 0-10 VDC control wire (typically Violet) from 0-10 VDC dimmable ballast
- GRAY from Ballast - Connect to sensor Black wire

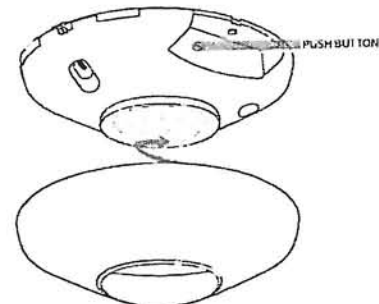


### RELAY OPTION (R)

- GRAY / BROWN - Connected during occupied state
  - VIOLET / BROWN - Connected during unoccupied state
- Note: Relay is energized during unoccupied state

## INSTALLATION

- Mount sensor directly to a ceiling tile or a metallic grid (two self-tapping screws provided).
- Sensor's mounting holes also align with 3.5" octagon or single gang handy box (screws not provided).
- Sensor will detect motions crossing segments more effectively than motions parallel to beams.
- For optimal detection, position sensor such that segments are crossed upon entrance and unable to view outside the space.



### PROGRAMMING

Refer to instruction card IC7.001 for default settings and directions on programming the sensor via the push-button.

**sensorswitch**

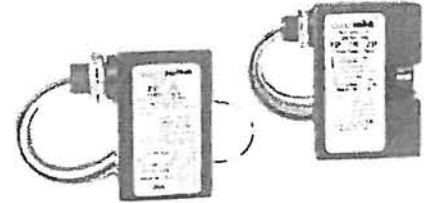
An Acuity Brands Company

**WARRANTY:** Sensor Switch, Inc. warrants these products to be free of defects in manufacture and workmanship for a period of 60 months. Sensor Switch, Inc., upon prompt notice of such defect, will, at its option, provide a Returned Material Authorization number and repair or replace returned product.

**LIMITATIONS AND EXCLUSIONS:** This Warranty is in full lieu of all other representation and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall Sensor Switch, Inc. be liable for any incidental or consequential property damages or losses. TS-CM-003A



PP20  
PP20 2P  
SP20



**POWER PACK  
RELAY CONTACT PROTECTION**

**SPECIFICATIONS**

**FEATURES**

- Powers Low Voltage Sensors (PP20/PP20 2P only)
- Self-Contained Relay(s) Switch
- Line Voltage Loads
- Relay Contact Protection
- Plenum Rated

**PHYSICAL SPECS**

SIZE (not including chase nipple)  
PP20 / SP20:  
3.00" H x 2.25" W x 1.88" D  
(7.62 cm x 5.72 cm x 4.78 cm)  
PP20 2P:  
4.13" H x 3.00" W x 1.88" D  
(10.49 cm x 7.62 cm x 4.78 cm)  
WEIGHT: 6 oz  
MOUNTING: 1/2" knockout  
COLOR: Black

**ELECTRICAL SPECS**

OPERATING VOLTAGE:  
120, 240, 277, or 347 VAC  
RELAY CURRENT REQUIREMENTS:  
40 mA  
SWITCHING LOAD: 20 Amps / Pole  
OUTPUT VOLTAGE/CURRENT:  
15 VDC, 150 mA (PP20/PP20 2P only)  
CLASS 2: 18 AWG, up to 2000 ft  
MOTOR LOAD: 1 HP

**ENVIRONMENTAL SPECS**

OPERATING TEMP:  
14° to 160° F (-10° to 71° C)  
RELATIVE HUMIDITY:  
20 to 90% non-condensing  
SILICONE FREE  
ROHS COMPLIANT

**MOUNTING IN PLENUMS**

Power packs are plenum rated. Most local codes allow for small plastic controls in return air plenums. To meet all local codes, the units can be mounted inside an adjacent (deep) junction box as shown.



**OVERVIEW**

Power packs are the heart of the low voltage sensor system. A PP20 Series power pack transforms Class 1 high voltage (120/277 VAC or 347 VAC) to Class 2 15 VDC for powering remote sensors. The PP20 and the SP20 Series slave pack are also capable of switching lighting loads on and off using their internal relays. Class 2 wire leads connect to 18 AWG or smaller low voltage cable running to the sensors, making installation easy and clean. Power packs also have an elongated chase nipple that allows it to be mounted either directly through a 1/2 inch knockout into a junction box, or inside an adjacent box for meeting specific local code requirements in ceiling plenums.

The most versatile power pack is the PP20, which utilizes a patented relay contact protection and can power up to 14 sensors. Dual-circuit control can be handled by two PP20's, one PP20 2P Series 2-Pole power pack, or a PP20 power pack and a SP20 slave packs.

**RELAY CONTACT PROTECTION**

The PP20, PP20 2P, & SP20 all have relay contact protection which uses an AC semi-conductor, placed in parallel with the power relay, to perform the actual switching function. The switching life of this semi-conductor is virtually infinite because it has no moving parts. The power relay contacts are then used to carry the current during the on state, thereby preventing in-rush or inductive kick from damaging the relay contacts. The result is extremely long relay life (tested to 400,000 cycles). When controlling larger loads of electronic ballasts with high in-rush characteristics, relay contact protection is advised. Power/slave packs without relay contact protection are also available (MP20 / MSP20).

**SYSTEM DESIGN CONSIDERATIONS**

A local override switch may be upstream or downstream of a PP20. However, if an SP20 or a PP20 2P is being used, the switch(es) should be downstream on the load side of the relay. If power is disconnected to the power pack, all subsequent relays will open, turning off all of the loads. If wiring the local switches before the power pack and slave pack, use multiple PP20's, one for each circuit. This will allow for one circuit to remain powered, keeping the system operational when the other is turned off. When controlling a dimming circuit, PP20 must be wired before the dimmer, or SP20 may be wired after the dimmer. The SP20 can be used for line voltage auxiliary contact only.

**INTERFACING WITH ELECTRONIC CONTROL SYSTEMS**

The Relay Switching System is designed to switch Alternating Currents Only. The relay will not switch DC signal inputs to EMS or Lighting Control Systems. Use model MP20, or "R" for signal relay located in Low Voltage Sensor Heads.

**OPTIONS**

**347 VAC (347)**

- Allows power pack to be powered by and/or switch 347 VAC

**LOW TEMP/HIGH HUMIDITY (LT)**

- Sensor is corrosion resistant to moisture
- Operates down to -40° F/C

**ORDERING INFO**

[SERIES] [# OF POLES] [VOLTAGE] [TEMP/HUMIDITY]

**SERIES #**

PP20  
SP20

**# OF POLES**

Blank = 1  
2P = 2\*

**VOLTAGE**

Blank = 120/277 VAC  
347 = 347 VAC\*\*

**TEMP/HUMIDITY**

Blank = 120/277 VAC  
LT = Low Temp

\*not available for SP20

\*\*not available for with 2P



TITLE 24  
MADE in U.S.A.  
5 YEAR WARRANTY

# WIRING (DO NOT WIRE HOT)

## POWERING CAPACITY

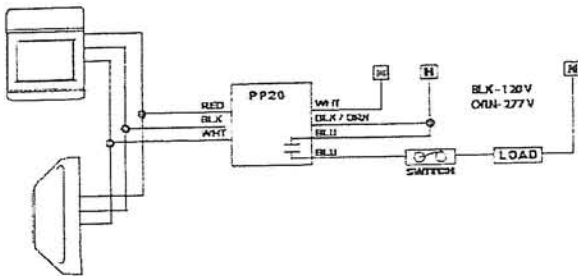
A power pack's transformers can supply up to 150 mA of power. Each relay requires 40 mA during the on state. Low voltage remote sensors typically require 3 mA when detecting occupants, and 0.15 mA when in standby. Therefore, each transformer can handle up to 3 relays (including the relay(s) inside the power pack). For example, one PP20 can power its relay (40 mA) and 110 mA of external devices. Because of the ultra low current design of the sensors, up to 14 or more sensors can be connected to a single power pack! If multiple power packs are used together, an additional 110 mA is available.

	Sensors	Sensors w/ R option
1 PP20	14	8
1 PP20 2P	7	6
1 PP20 w/SP20	7	6
1 PP20 2P w/SP20	5	5
2 PP20	28	16
2 PP20 2P	14	12

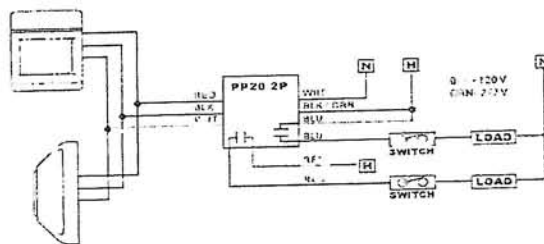
**Note 1:** Only three relays may be controlled with one Power Pack. If more than three circuits are required, multiple power packs must be used.

**Note 2:** The R option adds an isolated low voltage relay to a sensor. Only one sensor with this option is typically needed in a room.

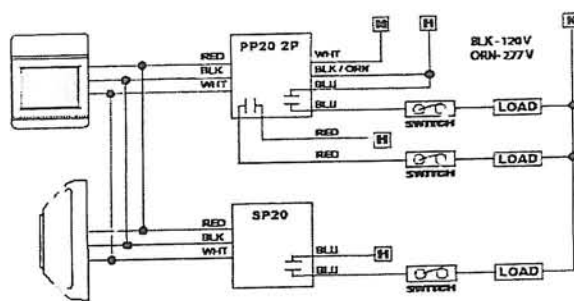
Multiple Sensors Controlling One Circuit



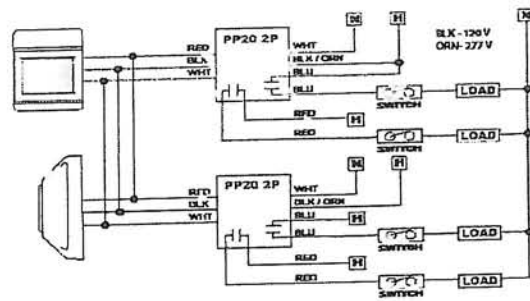
Multiple Sensors Controlling Two Circuits



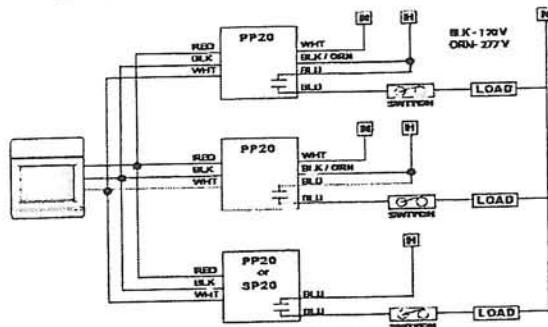
Multiple Sensors Controlling Three Circuits



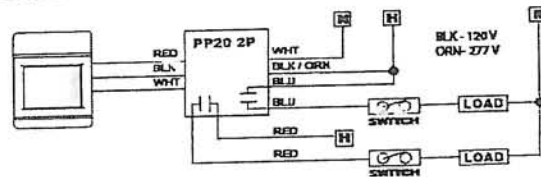
Multiple Sensors Controlling Four Circuits



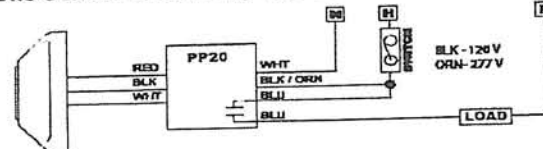
Wiring Multiple Power Packs Together



One Sensor Controlling Two Circuits



One Sensor Controlling One Circuit



**sensorswitch**

WARRANTY: Sensor Switch, Inc. warrants these products to be free of defects in manufacture and workmanship for a period of 60 months. Sensor Switch, Inc., upon prompt notice of such defect, will, at its option, provide a Returned Material Authorization number and repair or replace returned product.  
 LIMITATIONS AND EXCLUSIONS: This Warranty is in full lieu of all other representation and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall Sensor Switch, Inc. be liable for any incidental or consequential property damages or losses.

T054-C04

Auxiliary Power Company

90 Northrop Road, Wallingford, CT 06492 • 1.800.PASSIVE • FX 203.260.9521 • www.sensorswitch.com

Decorative Led Street Lights

**Results Summary**

**Pre-Finance Results Summary**

# of Fixtures Installed	3
Implementation Period (years)	1
Analysis Period	15
Simple Payback (years)	5.8
15-Year Unlevered IRR	19.23%
15-Year Capital Expenditure (\$)	\$ 2,536
15-Year Cap. Ex. \$/kWh Saved	\$ 1,580
15-Year Cap. Ex. \$/ton CO2e Saved	\$ 0.0674
	\$ 122.0999
Annual kWh Savings	1,564
Annual Energy Cost Savings (\$)	\$ 143
Annual GHG Savings (tCO <sub>2</sub> e)	1
Old Baseline Annual kWh Use	2,498
Old Baseline Annual Energy Cost (\$)	\$ 229
Old Baseline Annual GHGs (tCO <sub>2</sub> e)	1
New Baseline Annual kWh Use	934
New Baseline Annual Energy Cost (\$)	\$ 86
New Baseline Annual GHGs (tCO <sub>2</sub> e)	1
First-Year Avg. Capital Expend. per Unit (\$)	\$ 527
First-Year Avg. Material Cost per Unit (\$)	\$ 389
First-Year Avg. Labor Cost per Unit (\$)	\$ 98
First-Year Avg. Vehicle Cost per Unit (\$)	\$ 40
First-Year Avg. Disposal Cost per Unit (\$)	\$ -
First-Year Avg. Overhead Cost per Unit (\$)	\$ -



**Simple Cashflows**

Year	Annual Capital Expenditure	Rebate	Annual O&M Savings (incl. energy)	Annual Non-energy O&M Savings	Annual CO <sub>2</sub> e Penalty Savings	Annual Cashflow	Cumulative Cashflow
1	\$ 1,580	\$ -	\$ 274	131	-	\$ (1,306)	\$ (1,306)
2	\$ -	\$ -	\$ 274	131	-	\$ 274	\$ (1,031)
3	\$ -	\$ -	\$ 274	131	-	\$ 274	\$ (757)
4	\$ -	\$ -	\$ 274	131	-	\$ 274	\$ (482)
5	\$ -	\$ -	\$ 274	131	-	\$ 274	\$ (208)
6	\$ -	\$ -	\$ 274	131	-	\$ 274	\$ 66
7	\$ -	\$ -	\$ 274	131	-	\$ 274	\$ 341
8	\$ -	\$ -	\$ 274	131	-	\$ 274	\$ 615
9	\$ -	\$ -	\$ 274	131	-	\$ 274	\$ 890
10	\$ -	\$ -	\$ 274	131	-	\$ 274	\$ 1,164
11	\$ -	\$ -	\$ 274	131	-	\$ 274	\$ 1,439
12	\$ -	\$ -	\$ 274	131	-	\$ 274	\$ 1,713
13	\$ -	\$ -	\$ 274	131	-	\$ 274	\$ 1,987
14	\$ -	\$ -	\$ 274	131	-	\$ 274	\$ 2,262
15	\$ -	\$ -	\$ 274	131	-	\$ 274	\$ 2,536







**Input Page**

**Key**

White Cell, Bold Text: Value Title	Orange Cell: Input Value
White Cell: Calculation or Constant	Blue Cell: Calculation or Constant

Advanced Options:  Disabled

**Project Inputs**

Scenario Description (optional)		
<b>Tax, Electricity, and Labor Costs</b>		
Sales Tax (%)	0.00%	0.00%
Electricity Rate (\$/kWh)	0.092	0.092
Annual Change in Electricity Cost (%)		
Installation Vehicle Rate (\$/hr)	40.00	40.00
Annual Change in Vehicle Rate (%)	0.0%	0.0%
Installation Labor Rate (\$/hr)	97.70	97.70
Annual Change in Labor Rate (%)	3.0%	3.0%
Finance Nominal Discount Rate (%)	0.0%	0.0%
<b>Greenhouse Gas Emissions</b>		
Emissions Factor (kg CO <sub>2</sub> e/kWh)	0.552	0.552
<b>Project Overhead and Implementation</b>		
Project Overhead Labor (persons)	0.0	0.0
Project Overhead Labor Rate (\$/hr)	0.00	0.00
Project Overhead Work Year (hrs/person/yr)	0	0
First Year of Implementation	1	1
Last Year of Implementation	1	1
<b>Technology Types</b>		
		150 W HPS SL
		150 W LED Decorative

**Describe scenario characteristics.**

Set the tax rate applied to equipment purchased for new installation.  
Set the local cost of electricity per kilowatt-hour for lighting system.

Set the annual rate of change for local Electricity Cost. For assistance, see link:

[Energy Escalation Rate Calculator](#)

Set the total hourly cost of all vehicles used for installation of new lighting equipment.

Set the annual rate of change for Vehicle Rate. For assistance, see link:

[CBO Consumer Price Index forecast](#)

Set the total hourly cost of all labor used for installation of new lighting equipment.

Set the annual rate of change for Installation Labor Rate. For assistance, see link:

[CBO Employment Cost Index forecast](#)

Set the nominal rate at which future cash flows are discounted to the Present Value. This should reflect the cost of capital.

Set the local emissions factor for electricity. For assistance, see link:

[EPA eGRID Power Profiler](#)

Set the number of staff needed to plan and manage a lighting retrofit project.

Set the average hourly cost of labor for Project Overhead Labor.

Set the average number of hours per staff member that Project Overhead Labor will work on the project during each project year.

Indicates the first year in which new equipment is installed (currently fixed at 1).

Indicates the last year in which new equipment is installed (enter integer value from 1 to 30).

List the names of all technologies (up to 9 in total), old and new, to be evaluated.





**ENVIRONMENTAL IMPACT**

**Environmental Impact**

**Year**

**1**

Electricity Savings

Electricity Consumption - Business As Usual

Business As Usual kWh Consumption

2,498

Total kWh Saved

1,564

CO2e Emissions Avoided (tonnes)

CO2e from Electricity (kgs)

Total CO2e from Electricity (kgs)

863

CO2e from Vehicle (kgs)

Total CO2e from Vehicle (kgs)

0

Total CO2e Emissions Avoided (tonnes)

1

CO2e Savings (\$)

Total CO2e Savings (\$)

0



24watt Led Street Lights

Results Summary

Pre-Finance Results Summary

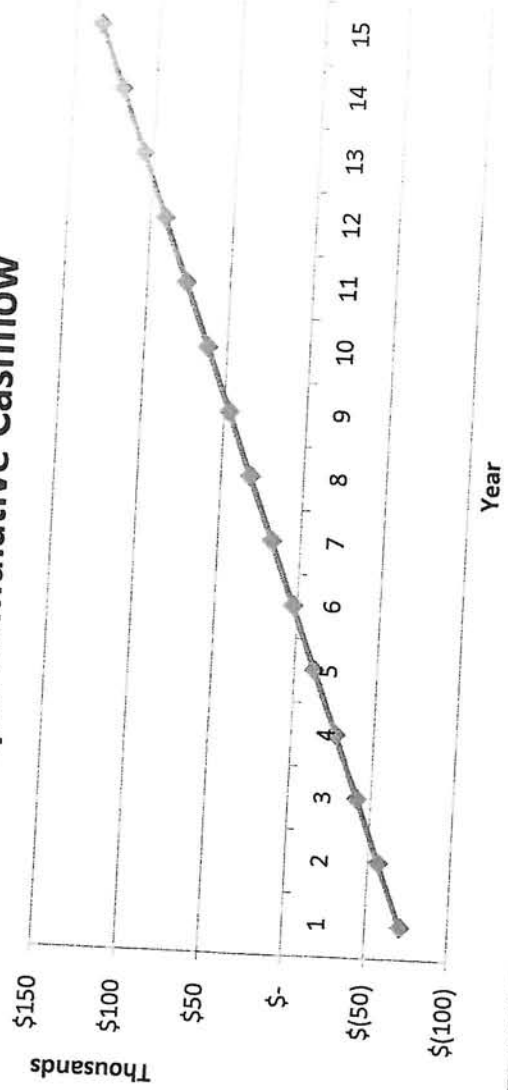
# of Fixtures Installed	250
Implementation Period (years)	1
Analysis Period	15
Simple Payback (years)	5.8
15-Year Unlevered IRR	19.00%
15-Year Unlevered NPV (\$)	\$ 135,439
15-Year Capital Expenditure (\$)	\$ 85,425
15-Year Cap. Ex. \$/kWh Saved	\$ 0.1176
15-Year Cap. Ex. \$/ton CO2e Saved	\$ 213.1627
Annual kWh Savings	48,435
Annual Energy Cost Savings (\$)	\$ 4,440
Annual GHG Savings (tCO <sub>2</sub> e)	27
Old Baseline Annual kWh Use	74,373
Old Baseline Annual Energy Cost (\$)	\$ 6,818
Old Baseline Annual GHGs (tCO <sub>2</sub> e)	41
New Baseline Annual kWh Use	25,938
New Baseline Annual Energy Cost (\$)	\$ 2,378
New Baseline Annual GHGs (tCO <sub>2</sub> e)	14
First-Year Avg. Capital Expend. per Unit (\$)	\$ 342
First-Year Avg. Material Cost per Unit (\$)	\$ 204
First-Year Avg. Labor Cost per Unit (\$)	\$ 98
First-Year Avg. Vehicle Cost per Unit (\$)	\$ 40
First-Year Avg. Disposal Cost per Unit (\$)	\$ -
First-Year Avg. Overhead Cost per Unit (\$)	\$ -

Simple Cashflows										Environmental Savings Summary		
Year	Annual Capital Expenditure	Rebate	Annual O&M Savings (incl. energy)	Annual Non-energy O&M Savings	Annual CO <sub>2</sub> e Penalty Savings	Annual Cashflow	Cumulative Cashflow	Annual Energy Savings (\$)	Annual Energy Savings (kWh)	Annual CO <sub>2</sub> e Avoided (Tonnes/Yr)		
1	\$ 85,425	\$ -	\$ 14,724	\$ 10,284	\$ -	\$ (70,701)	\$ (70,701)	\$ 4,440	48,435	27		
2	\$ -	\$ -	\$ 14,724	\$ 10,284	\$ -	\$ 14,724	\$ (55,976)	\$ 4,440	48,435	27		
3	\$ -	\$ -	\$ 14,724	\$ 10,284	\$ -	\$ 14,724	\$ (41,252)	\$ 4,440	48,435	27		
4	\$ -	\$ -	\$ 14,724	\$ 10,284	\$ -	\$ 14,724	\$ (26,528)	\$ 4,440	48,435	27		
5	\$ -	\$ -	\$ 14,724	\$ 10,284	\$ -	\$ 14,724	\$ (11,804)	\$ 4,440	48,435	27		
6	\$ -	\$ -	\$ 14,724	\$ 10,284	\$ -	\$ 14,724	\$ 2,921	\$ 4,440	48,435	27		
7	\$ -	\$ -	\$ 14,724	\$ 10,284	\$ -	\$ 14,724	\$ 17,645	\$ 4,440	48,435	27		
8	\$ -	\$ -	\$ 14,724	\$ 10,284	\$ -	\$ 14,724	\$ 32,369	\$ 4,440	48,435	27		
9	\$ -	\$ -	\$ 14,724	\$ 10,284	\$ -	\$ 14,724	\$ 47,093	\$ 4,440	48,435	27		
10	\$ -	\$ -	\$ 14,724	\$ 10,284	\$ -	\$ 14,724	\$ 61,818	\$ 4,440	48,435	27		
11	\$ -	\$ -	\$ 14,724	\$ 10,284	\$ -	\$ 14,724	\$ 76,542	\$ 4,440	48,435	27		
12	\$ -	\$ -	\$ 14,724	\$ 10,284	\$ -	\$ 14,724	\$ 91,266	\$ 4,440	48,435	27		
13	\$ -	\$ -	\$ 14,724	\$ 10,284	\$ -	\$ 14,724	\$ 105,990	\$ 4,440	48,435	27		
14	\$ -	\$ -	\$ 14,724	\$ 10,284	\$ -	\$ 14,724	\$ 120,715	\$ 4,440	48,435	27		
15	\$ -	\$ -	\$ 14,724	\$ 10,284	\$ -	\$ 14,724	\$ 135,439	\$ 4,440	48,435	27		

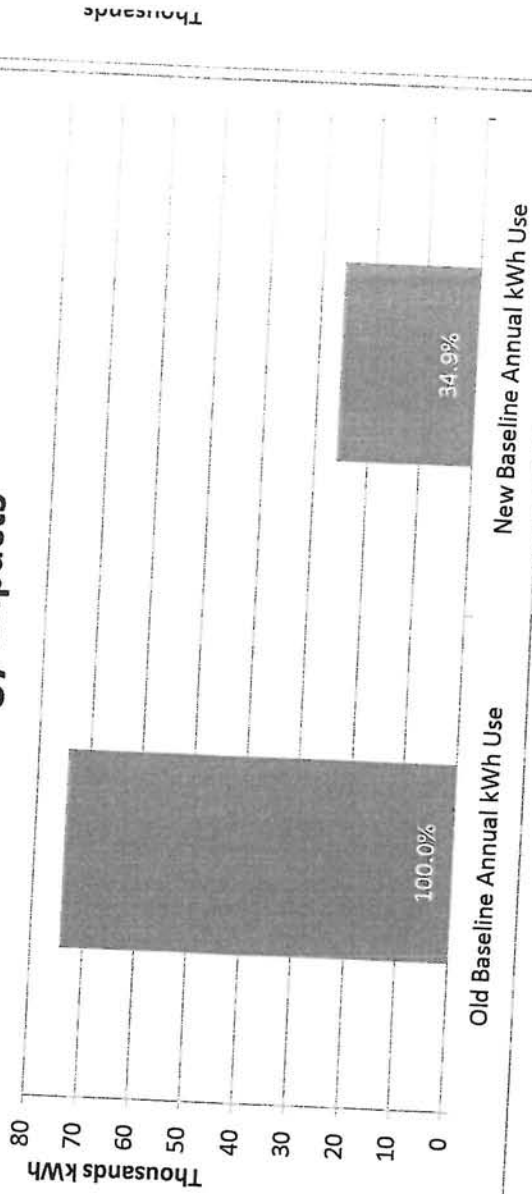




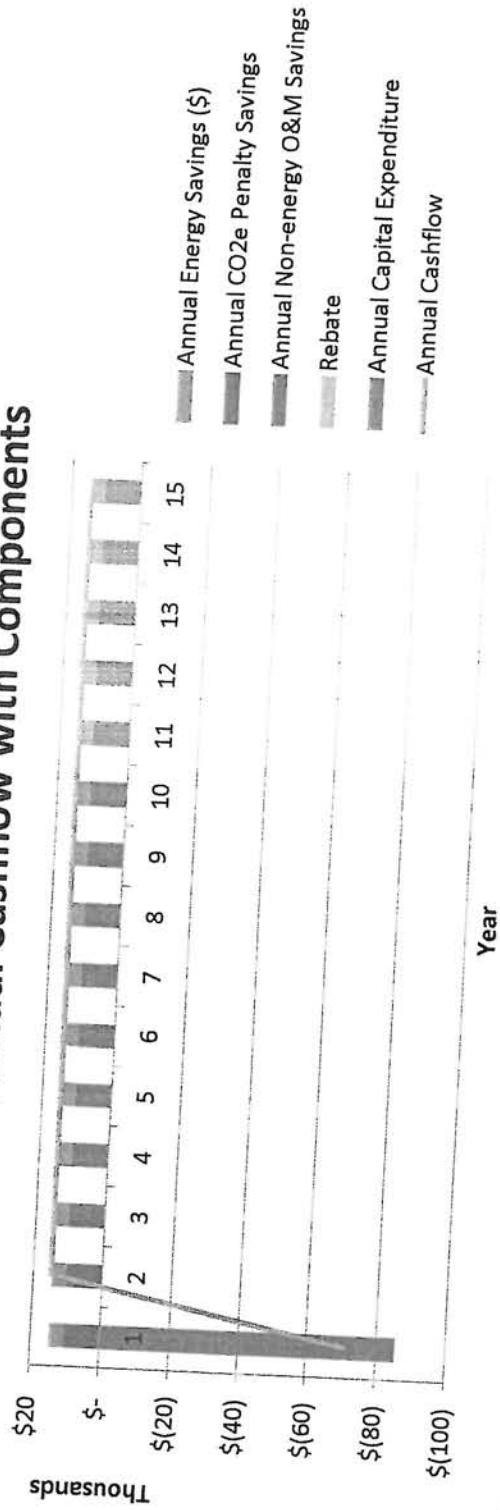
### Simple Cumulative Cashflow



# Energy Impacts



# Annual Cashflow with Components



Use









**ENVIRONMENTAL IMPACT**

Year

1

**Total Environmental Impact**

## Electricity Savings

Electricity Consumption - Business As Usual

Business As Usual kWh Consumption	74,373
-----------------------------------	--------

Total kWh Saved	48,435
-----------------	--------

## CO2e Emissions Avoided (tonnes)

CO2e from Electricity (kgs)

Total CO2e from Electricity (kgs)	26,717
-----------------------------------	--------

CO2e from Vehicle (kgs)

Total CO2e from Vehicle (kgs)	0
-------------------------------	---

Total CO2e Emissions Avoided (tonnes)	27
---------------------------------------	----

## CO2e Savings (\$)

Total CO2e Savings (\$)	0
-------------------------	---



**PASCOAG**  
UTILITY DISTRICT

Energy Star Central Air Conditioner Incentive

This offer is for a limited time only, subject to availability of funding.

Please attach the original receipts, along with the energy guide or the booklet which shows that it is ENERGY STAR compliant.

*Committed Energy*



Customers Name: <u>GS Inc</u>	
Pascoag Utility District Account Number: <u>14045001</u>	
Service Address: <u>885 S. Main St</u>	
Home/Cell Telephone #:	Work Telephone #:
Central Air Conditioner Make:	
Central Air Conditioner Model #	Cost:
Central Air Conditioners must have a SEER of 14 or greater and an EER of 11.5 for a single package to qualify. Please see the second page for detailed requirements.	
Incentive of 10%, not to exceed the amounts on page two of this form.	

2 - Central AC units @ \$250 each  
For Pascoag Utility District use only

DSM Rebate Year DI 1503 - Committed Funds - Lighting + EE Projects

Amount of Rebate: \$500

Reviewer: Hu Date: 3-27-15

Management approval: [Signature]



This combination qualifies for a Federal Energy Efficiency Tax Credit when placed in service between Feb 17, 2009 and Dec 31, 2013.

# Certificate of Product Ratings

AHRI Certified Reference Number: 7434477

Date: 3/10/2015

Product: Variable Speed Multi-Split Heat Pump

Outdoor Unit Model Number: MXZ-5C42NAHZ

Indoor Unit Type: Non-Ducted Indoor Units

Manufacturer: MITSUBISHI ELECTRIC COOLING & HEATING

Trade/Brand name: MR. SLIM

Series name:

Manufacturer responsible for the rating of this system combination is MITSUBISHI ELECTRIC COOLING & HEATING

Rated as follows in accordance with AHRI Standard 210/240-2008 for Unitary Air-Conditioning and Air-Source Heat Pump Equipment and subject to verification of rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (Btuh): 42000

EER Rating (Cooling): 13.40

SEER Rating (Cooling): 19.00

Heating Capacity(Btuh) @ 47 F: 48000

Region IV HSPF Rating (Heating): 11.00

Heating Capacity(Btuh) @ 17 F: 35800

\$ 250

CERTIFIED RATINGS FOR VARIABLE-SPEED, MINI- AND MULTI-SPLIT SYSTEMS ARE VALID FOR ALL COMBINATIONS OF INDOOR UNITS (BASED ON COMBINATION TYPES) WITH THE SPECIFIC OUTDOOR UNIT LISTED ABOVE AND IN THE AHRI DIRECTORY OF CERTIFIED EQUIPMENT. VISIT WWW.AHRIDIRECTORY.ORG TO VERIFY THAT THIS COMBINATION IS AN ACTIVE LISTING AND THE DATA LISTED ON THIS CERTIFICATE IS ACCURATE. SEARCH ON THE AHRI REFERENCE # TO QUICKLY LOCATE THIS COMBINATION IN THE DIRECTORY. \*Ratings followed by an asterisk (\*) indicate a voluntary rerate of previously published data, unless accompanied with a WAS, which indicates an involuntary rerate.

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CERTIFICATE NO.: 130704641646200021



This combination qualifies for a Federal Energy Efficiency Tax Credit when placed in service between Feb 17, 2009 and Dec 31, 2013.

# Certificate of Product Ratings

AHRI Certified Reference Number: 7451969

Date: 3/10/2015

Product: Variable Speed Multi-Split Heat Pump

Outdoor Unit Model Number: MXZ-3C24NAHZ

Indoor Unit Type: Non-Ducted Indoor Units

Manufacturer: MITSUBISHI ELECTRIC COOLING & HEATING

Trade/Brand name: MR. SLIM

Series name:

Manufacturer responsible for the rating of this system combination is MITSUBISHI ELECTRIC COOLING & HEATING

Rated as follows in accordance with AHRI Standard 210/240-2008 for Unitary Air-Conditioning and Air-Source Heat Pump Equipment and subject to verification of rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (Btuh):	22000
EER Rating (Cooling):	13.50
SEER Rating (Cooling):	19.00
Heating Capacity(Btuh) @ 47 F:	25000
Region IV HSPF Rating (Heating):	10.00
Heating Capacity(Btuh) @ 17 F:	14000

CERTIFIED RATINGS FOR VARIABLE-SPEED, MINI- AND MULTI-SPLIT SYSTEMS ARE VALID FOR ALL COMBINATIONS OF INDOOR UNITS (BASED ON COMBINATION TYPES) WITH THE SPECIFIC OUTDOOR UNIT LISTED ABOVE AND IN THE AHRI DIRECTORY OF CERTIFIED EQUIPMENT. VISIT WWW.AHRIDIRECTORY.ORG TO VERIFY THAT THIS COMBINATION IS AN ACTIVE LISTING AND THE DATA LISTED ON THIS CERTIFICATE IS ACCURATE. SEARCH ON THE AHRI REFERENCE # TO QUICKLY LOCATE THIS COMBINATION IN THE DIRECTORY. \* Ratings followed by an asterisk (\*) indicate a voluntary rerate of previously published data, unless accompanied with a WAS, which indicates an involuntary rerate.

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CERTIFICATE NO.: 130704641011423814

From: John DiMuccio <jdimuccio@carjon.com>   
Subject: FW: Mitsubishi Equipment List  
Date: March 15, 2015 1:27:19 PM EDT  
To: "misti@gslabels.com" <misti@gslabels.com>

4 Attachments, 459 KB

Bert / Josh,

I was looking to follow-up on the email below that I sent and seen that it was emailed to the incorrect address. Sorry for any inconvenience this may have caused.

Let me know that you have received the information and if there is anything else you may need

Thank you,

John Sr.

John DiMuccio | President | CARJON Air Conditioning & Heating, Inc.  
"Live in a World of Total Comfort."  
4 Enterprise Lane | Smithfield, RI 02917  
401.232.9400 (office) | 401.232.0920 (fax)  
Become a fan on [Facebook](#)



 Please consider the environment before printing this email!

From: John DiMuccio  
Sent: Tuesday, March 10, 2015 9:13 AM  
To: 'misti@labels.com'  
Subject: Mitsubishi Equipment List

Bert / Josh,

Below is the Mitsubishi equipment list we used at your site. I also attached the AHRI Certified Certificates for both systems which have the efficiencies of each listed.

If there is more information needed let me know.

Thank you,

John Sr.

**System 1: Office/Lobby**

Condenser Mod# MXZ3C24NAHZ

Evaporator Mod# SLZKA15NAR1.TH (ceiling cassette) Qty (1)

Evaporator Mod# SLZKA12NAR1.TH (ceiling cassette) Qty (1)

Wireless remote kit Mod# MHK1 Qty. (2)

**System 2: General Office/Conference room**

Condenser Mod# MXZ5C42NAHZ -

Evaporator Mod# SLZKA12NAR1.TH (ceiling cassette) Qty (3)

Branch Box Mod# PAC-MKA30BC Qty (1)

Wireless remote kit Mod# MHK1 Qty (3)



**CARJON**  
 Air Conditioning & Heating, Inc.  
 4 Enterprise Lane  
 Smithfield, RI 02917  
 T: (401)232-9400

# Invoice

Number	Date
J20920	02/12/15

**BILL TO: #1552**

**JOB INFO:**

G. S. INCORPORATED  
 Josh Mountford  
 885 SOUTH MAIN STREET  
 PASCOAG RI 02859

G. S. INCORPORATED  
 885 SOUTH MAIN STREET  
 PASCOAG RI 02859  
 ATTN: Josh Mountford

Return this portion with payment

Amount Paid: \$13,500

GC Job #	GC PO #	Requisition #	Period Ending	Job Number	Terms
		2	02/12/15	15-0016 C	

**JOB DESCRIPTIONS**

Ductless air conditioning

CONTRACT AMOUNT: 27000.00

100 % BILLED (INCLUDING THIS INVOICE) 27000.00

.00

PREVIOUSLY INVOICED 13500.00

SUB-TOTAL 13500.00

TOTAL DUE THIS INVOICE 13,500.00

*Carjon*  
*8/23/15*  
*dc 15398*  
*\$13,500 (balance)*





Division of  
 THIELSCH ENGINEERING, INC.  
 1341 Elmwood Avenue  
 Cranston, RI 02910

**RISE**  
 ENGINEERING

Vendor (172)

Accounts Payable  
 Pascoag Utility District  
 253 Pascoag Main St  
 PO Box 107  
 Pascoag, RI 02859

Invoice Number 122826  
 Invoice Date January 15, 2015  
 Contract 2567  
 Project RIS-88-14-0835  
 Page 1 of 1  
 NET 30

DECEMBER 15 2014  
 JAN 20 RECD

Furnished and installed energy efficient equipment pursuant to contract.

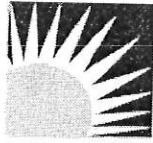
Site Address:  
 Harrisville Fire  
 201 Callahan School Street  
 Harrisville, RI 02830

**Invoice Total**

4,438.00

**For questions regarding this invoice please contact RISE at 1-800-422-5365**

**SEND PAYMENT TO: RISE ENGINEERING P.O BOX 845327 BOSTON, MA 02284-5327**



**RISE**  
ENGINEERING

Division of Thielsch Engineering, Inc  
1341 Elmwood Avenue  
Cranston, Rhode Island 02910



**PASCOAG**  
UTILITY DISTRICT

### Harrisville Fire District

#### Financial Summary

Total Project Cost	\$	9,730
Estimated Pacoag Utility District Incentive	\$	(4,438)
Customer Net Cost	\$	5,292
Estimated Energy Cost Savings Annually	\$	3,450
Estimated Maintenance Savings	\$	720
Return on Investment (ROI)		79%
Simple Payback in Years		1.3

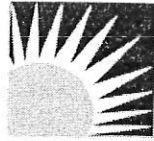
#### Energy Savings

kW Reduction	kWh Reduction
3.33	18,157

#### Pollution Savings

CO2 Reduction (lbs)	NOx Reduction (lbs)	SO2 Reduction (lbs)
17,431	4.5	0.6

LOCATION		EXISTING CONDITIONS										PROPOSED CONDITIONS										SENSOR DETAIL				ENERGY SAVINGS		
Item	Room	Part	Qty	Existing Fixture Type	Part	Qty	Existing Fixture	Watts	Volts	Watt/Hr	Proposed Fixture Code	Proposed Fixture Type	Part	Qty	Proposed Fixture	Watts	Volts	Watt/Hr	Load	Watt	Watt/Hr	Watt	Watt/Hr	Watt	Watt/Hr	Watt	Watt/Hr	
1	APARATUS ROOM	A1	2	2F3SSEM	2F96112 8' IND.	8	3,900	123	0.98	3,038	4F2BEEEL	KIT 4F2B18 8' IND	8	3,900	83	664	0.66	2,590	0.32	1,248								
2	APARATUS ROOM	B1	4	2F3SSE	2F3218 4' IND	4	3,900	60	0.24	936	2F2BEEEL	RURB 2F2818 4' IND	4	3,900	42	168	0.17	655	0.07	281								
3	LOCKER ROOM	C1	5	3F3SSE	3F3218 2x4 REC PRISM	5	8,760	88	0.44	3,654	2F2BEEEL	RURB 2F2818 2x4	5	5,884	42	210	0.21	1,196	0.23	2,659								
4	LOCKER ROOM	C1	5	3F3SSE	3F3218 2x4 REC PRISM	5	8,760	88	0.44	3,654	2F2BEEEL	RURB 2F2818 2x4	5	5,884	42	210	0.21	1,196	0.23	2,659								
5	BATHROOM	C1	1	3F3SSE	3F3218 2x4 REC PRISM	1	3,120	60	0.09	275	2F2BEEEL	RURB 2F2818 2x4	1	3,120	42	42	0.04	131	0.05	144								
6	BATHROOM	I1	1	10060	60W INC S/I	1	3,120	60	0.06	197	1L011	11W A19 LED SCREW IN	1	3,120	11	11	0.01	34	0.05	153								
7	FRONT LOBBY	C1	4	3F3SSE	3F3218 2x4 REC PRISM	4	3,120	88	0.35	1,098	2F2BEEEL	RURB 2F2818 2x4	4	3,120	42	168	0.17	524	0.16	574								
8	FRONT LOBBY	E1	1	10040	200W INC EXIT SIGN	1	8,760	40	0.04	350	1E0015	1.5W LED EXIT SIGN	1	8,760	1.5	2	0.00	13	0.04	337								
9	CHIEF'S OFFICE	C1	6	3F3SSE	3F3218 2x4 REC PRISM	6	2,000	88	0.53	1,056	2F2BEEEL	RURB 2F2818 2x4	6	1,300	42	252	0.25	328	0.04	337								
10	DEPUTY CHIEF'S OFFICE	C2	4	3F3SSE	3F3218 2x4 REC CELL	4	3,900	88	0.35	1,373	2F2BEEEL	RURB 2F2818 2x4 18 CELL	4	2,535	42	168	0.17	426	0.16	574								
11	COMMUNICATION ROOM	C2	2	3F3SSE	3F3218 2x4 REC CELL	2	3,900	88	0.18	646	2F2BEEEL	RURB 2F2818 2x4 18 CELL	2	2,535	42	84	0.08	213	0.09	473								
12	HALLWAY	C1	4	3F3SSE	3F3218 2x4 REC PRISM	4	3,900	88	0.35	1,373	2F2BEEEL	RURB 2F2818 2x4	4	2,535	42	168	0.17	426	0.16	574								
13	KITCHEN	C1	1	3F3SSE	3F3218 2x4 REC PRISM	1	3,120	88	0.09	275	2F2BEEEL	RURB 2F2818 2x4	1	3,120	42	42	0.04	131	0.05	144								
14	TV ROOM	A2	6	4F3SSE	4F3218 8' WMAP	6	5,824	112	0.67	3,914	2F2BEEEL	RURB 2F2818 8' WMAP	6	5,824	42	252	0.25	1,469	0.42	2,446								
15	TV ROOM	B1	2	2F3SSE	2F3218 4' IND	2	5,824	60	0.12	689	2F2BEEEL	RURB 2F2818 4' IND	2	5,824	42	84	0.08	469	0.04	210								
16	TV ROOM	E1	1	10040	200W INC EXIT SIGN	1	8,760	40	0.04	350	1E0015	1.5W LED EXIT SIGN	1	8,760	1.5	2	0.00	13	0.04	337								
17	MEN'S ROOM	I2	1	10002S	22W CFL REC HIGH HAT	4	3,900	24	0.10	374	1L012	NF 11W LED REC HIGH HAT	4	3,900	12	48	0.05	187	0.05	187								
18	WOMEN'S ROOM	I2	1	10002S	22W CFL REC HIGH HAT	2	3,900	24	0.05	187	1L012	NF 11W LED REC HIGH HAT	2	3,900	12	24	0.02	94	0.02	94								
19	OLD RADIO ROOM	B1	1	2F3SSE	2F3218 4' IND	1	8,760	60	0.06	526	2F2BEEEL	RURB 2F2818 4' IND	1	8,760	42	42	0.04	356	0.02	159								
20	OLD EQUIPMENT ROOM	B1	1	2F3SSE	2F3218 4' IND	1	2,000	60	0.06	120	2F2BEEEL	RURB 2F2818 4' IND	1	1,300	42	42	0.04	55	0.02	65								
21	STORAGE ROOM	B1	1	2F3SSE	2F3218 4' IND	1	2,000	60	0.06	120	2F2BEEEL	RURB 2F2818 4' IND	1	1,300	42	42	0.04	55	0.02	65								
22	AIR TANK ROOM	B1	1	2F3SSE	2F3218 4' IND	1	2,000	60	0.06	120	2F2BEEEL	RURB 2F2818 4' IND	1	1,300	42	42	0.04	55	0.02	65								
23	MAIN ENTRY	H1	1	1H007S	70W HPD FLOOD	2	4,368	90	0.18	786	1L010	10W LED WALL PACK	2	4,368	10	20	0.02	87	0.02	65								
24	FORESTRY 2	H1	1	1H007S	70W HPD FLOOD	1	4,368	90	0.09	393	1L010	10W LED WALL PACK	1	4,368	10	10	0.01	44	0.08	349								
25	FRONT FLOODS	H2	1	10090	90W INC FLOOD	2	4,368	90	0.18	786	1L018	18W LED PAR 38 SCREW IN	2	4,368	16	36	0.04	157	0.14	629								
26	FLAG	H3	1	1T0300	300W HALOGEN FLOOD	1	4,368	300	0.30	1,310	1L045	45W LED FLOOD	1	4,368	45	45	0.05	197	0.26	1,114								
27	SIGN	H4	1	10120	120W INC FLOOD	1	4,368	120	0.12	524	1L018	18W LED PAR 38 SCREW IN	1	4,368	18	18	0.02	79	0.10	446								
<b>TOTALS</b>			<b>72</b>			<b>72</b>	<b>23,368</b>	<b>2,231</b>	<b>23,368</b>	<b>2,231</b>			<b>72</b>	<b>2,231</b>	<b>2,231</b>	<b>2,231</b>	<b>2,231</b>	<b>2,231</b>	<b>2,231</b>	<b>2,231</b>	<b>2,231</b>	<b>2,231</b>	<b>2,231</b>	<b>2,231</b>	<b>2,231</b>	<b>2,231</b>	<b>2,231</b>	



**RISE**  
ENGINEERING

Division of Thielsch Engineering, Inc  
1341 Elmwood Avenue  
Cranston, Rhode Island 02910



**PASCOAG**  
UTILITY DISTRICT

### Harrisville Fire District Office

#### Financial Summary

Total Project Cost	\$	1,870
Estimated PUD Electric Incentive	\$	(611)
Customer Net Cost	\$	1,259
Estimated Energy Cost Savings Annually	\$	345
Estimated Maintenance Savings	\$	240
Return on Investment (ROI)		46%
Simple Payback in Years		2.2

#### Energy Savings

kW Reduction	kWh Reduction
1.45	2,376

#### Pollution Savings

CO2 Reduction (lbs)	NOx Reduction (lbs)	SO2 Reduction (lbs)
2,281	0.6	0.1



ECH: Lighting & Sensors

Facility Name  
 Harrisville Fire District  
 Facility Address  
 115 Central St.  
 Harrisville, RI 02830  
 Contact  
 Brenda Gimadi

LOCATION		EXISTING CONDITIONS										PROPOSED CONDITIONS										ENERGY SAVINGS	
FIRE DISTRICT	Room	Fixt. Qty	Existing Hours	Watts	KW	kWh	Proposed Device Code	Proposed Fixture Type	Fixt. Qty	Proposed Hours	Watts	Load	KW	kWh	KW Saved	kWh Saved							
1	FIRE DISTRICT 1ST Generator Room A1	2F96T12 8' STRIP	1	1,000	207	0.21	4F32EEL	2F96T12 8' STRIP	1	1,000	95	95	0.10	95	0.11	112							
2	FIRE DISTRICT 1ST Garage A2	4F32SSE	3	2,000	112	0.34	000-001	4F32T8 8' WRAP	3	2,000	112	336	0.34	672	0.00	0							
3	FIRE DISTRICT 1ST Garage B1	2F32SSE	1	2,000	60	0.06	000-001	2F32T8 4' WRAP	1	2,000	60	60	0.06	120	0.00	0							
4	FIRE DISTRICT 1ST Bubba's Office A3	4F32SSE	1	2,000	112	0.11	4F28EEL	4F32T8 8' WRAP	1	2,000	83	83	0.08	166	0.03	58							
5	FIRE DISTRICT 1ST Bathroom I1	10060	1	1,000	60	0.06	1L011	60W INC SCREW IN	1	1,000	11	11	0.01	11	0.05	49							
6	FIRE DISTRICT 1ST Main Office A3	4F32SSE	4	2,000	112	0.45	4F28EEL	4F32T8 8' WRAP	4	2,000	83	332	0.33	664	0.12	232							
7	FIRE DISTRICT 1ST Foyer & Entry Way I2	10090	3	2,000	90	0.27	1L011	90W INC SCREW IN	3	2,000	11	33	0.03	66	0.24	474							
8	FIRE DISTRICT 1ST Meeting Room I3	10065	12	1,500	65	0.78	1L012	65W INC SCREW IN	12	1,500	12	144	0.14	216	0.64	954							
9	FIRE DISTRICT 1ST Bathroom I1	10060	1	1,000	60	0.06	1L011	60W INC SCREW IN	1	1,000	11	11	0.01	11	0.05	49							
10	FIRE DISTRICT 1ST Basement I1	10060	4	2,000	60	0.24	1L011	60W INC SCREW IN	4	2,000	11	44	0.04	88	0.20	392							
11	FIRE DISTRICT 1ST Basement B2	2F40SEM	1	2,000	70	0.07	2F28EEL	2F40T12 4' STRIP	1	2,000	42	42	0.04	84	0.03	56							
<b>TOTALS</b>			<b>32</b>			<b>2.64</b>			<b>32</b>			<b>1,191</b>	<b>1.19</b>	<b>2,193</b>	<b>1.45</b>	<b>2,376</b>							

new 40% of \$5,265 = \$2,106

Processed  
6/18/15

# Lighting Systems Application 2015 New Construction Program

**nationalgrid**  
HERE WITH YOU. HERE FOR YOU.

ALL FIELDS ON THIS PAGE ARE REQUIRED TO COMPLETE YOUR APPLICATION.

## CUSTOMER/ACCOUNT HOLDER INFORMATION

COMPANY NAME <b>Nikolaos Chalkiadakis</b>		CONTACT PERSON <b>Nicko</b>		APPLICATION DATE <b>6-15-15</b>	
INSTALL SITE <b>216 Harrisville Main St</b>		PHONE <b>508-476-3770</b>		FAX NUMBER <b>(568-8664)</b>	
EMAIL ADDRESS <b>Apt 202, 204, 201</b>		SQUARE FEET (COVERED BY THIS APPLICATION)			
STREET ADDRESS		CITY	STATE	ZIP	
MAILING ADDRESS (IF DIFFERENT)		CITY	STATE	ZIP	
ELECTRIC COMPANY NAME		ELECTRIC ACCOUNT NUMBER (OR COPY OF ELECTRIC BILL)			
GAS COMPANY NAME		GAS ACCOUNT NUMBER (OR COPY OF GAS BILL)			
BUILDING TYPE (PLEASE PLACE "X" IN APPROPRIATE BALLOT BOX)					
<input type="checkbox"/> ASSEMBLY	<input type="checkbox"/> FAST FOOD	<input type="checkbox"/> HOTEL	<input type="checkbox"/> MULTI STORY RETAIL	<input type="checkbox"/> RELIGIOUS	<input type="checkbox"/> SMALL RETAIL
<input type="checkbox"/> AUTOMOTIVE	<input type="checkbox"/> FULL SERVICE RESTAURANT	<input type="checkbox"/> LARGE REFRIGERATED SPACE	<input type="checkbox"/> MULTIFAMILY HIGH-RISE	<input type="checkbox"/> K-12 SCHOOL	<input type="checkbox"/> UNIVERSITY
<input type="checkbox"/> BIG BOX	<input type="checkbox"/> GROCERY	<input type="checkbox"/> LARGE OFFICE	<input type="checkbox"/> MULTIFAMILY LOW-RISE	<input type="checkbox"/> SMALL OFFICE	<input type="checkbox"/> WAREHOUSE
<input type="checkbox"/> COMMUNITY COLLEGE	<input type="checkbox"/> HEAVY INDUSTRIAL	<input type="checkbox"/> LIGHT INDUSTRIAL	<input type="checkbox"/> OTHER:	<b>Apartment</b>	
<input type="checkbox"/> DORMITORY	<input type="checkbox"/> HOSPITAL	<input type="checkbox"/> MOTEL			
PROJECT TYPE (select one)					
<input type="checkbox"/> CHANGE IN THE USE OR FUNCTION OF THE BUILDING SPACE	<input type="checkbox"/> NEW BUILDING	<input type="checkbox"/> EXPANSION OF AN EXISTING BUILDING	<input type="checkbox"/> PLANNED REPLACEMENT OF EQUIPMENT		
<input type="checkbox"/> NEW EQUIPMENT FOR NEW PROCESS OR EXPANDED OPERATION	<input type="checkbox"/> RENOVATION OF EXISTING EQUIPMENT	<input type="checkbox"/> NEW CONTROLS FOR IMPROVED OPERATIONS	<input type="checkbox"/> REPLACEMENT OF FAILED EQUIPMENT		

## PAYMENT METHOD (PAYEE MUST SUBMIT A W-9 FORM)

PAYMENT TO:	<input type="checkbox"/> CUSTOMER	CUSTOMER - TAX ID# (REQUIRED)	VENDOR/INSTALLER - TAX ID# (REQUIRED IF RECEIVING INCENTIVE)
	<input type="checkbox"/> VENDOR/INSTALLER		
CHECK PAYABLE TO:	CUSTOMER COMPANY TYPE: <input type="checkbox"/> INC. <input type="checkbox"/> NOT INCORP. <input type="checkbox"/> EXEMPT		VENDOR COMPANY TYPE: <input type="checkbox"/> INC. <input type="checkbox"/> NOT INCORP. <input type="checkbox"/> EXEMPT

## VENDOR INFORMATION

AUTHORIZED VENDOR/INSTALLER <b>Northern Electric</b>	CONTACT NAME <b>Bob Lou Dardi</b>		
STREET ADDRESS	CITY	STATE	ZIP
PHONE <b>323-3501</b>	EMAIL ADDRESS		
DATE	AUTHORIZED VENDOR/INSTALLER SIGNATURE (NOT APPLICABLE IF CUSTOMER IS PAYEE) <b>X</b>		

## CUSTOMER ACCEPTANCE OF TERMS

PRE-INSTALLATION		ANTICIPATED COMPLETION DATE
<input checked="" type="checkbox"/> I CERTIFY THAT ALL STATEMENTS MADE IN THIS APPLICATION ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT I HAVE READ AND AGREE TO THE TERMS AND CONDITIONS ON THE BACK OF THIS FORM.		
DATE	PRINT NAME	AUTHORIZED SIGNATURE
		<b>X</b>
POST-INSTALLATION		
<input checked="" type="checkbox"/> I CERTIFY THAT I HAVE SEEN THE ENERGY EFFICIENCY MEASURES THAT HAVE BEEN INSTALLED AND I AM SATISFIED WITH THEIR INSTALLATION.		
DATE	PRINT NAME	AUTHORIZED SIGNATURE
<b>6/16/15</b>	<b>Harle Round</b>	<b>X Harle Round</b>

New apts - Brand new

LITTEMER

.90 VANDERBILT AVE.#4  
NORWOOD, MA 02062  
TEL: 781-501-1226 FAX: 781-501-1234

INVOICE

PAGE No. 1

INVOICE DATE

18JUN'14

INVOICE NUMBER

I610236

C  
LN STN LLC  
IA ~~BEKMAN MARTINEZ~~ NIKOLAOS CHALKIDAKIS }  
EM 216 HARRISVILLE MAIN STREET HT  
NE HARRISVILLE, RI IO  
T 02830 P

ORDER No. TERMS F.O.B. CARRIER  
0610236 COD

WORKORDER No. CUSTOMER No. CUSTOMER PURCHASE ORDER No. SALESMAN  
STN2830 765.00/4500 170 (SML)

ORDERED	SHIPPED	BACKORDER	ITEM NUMBER	WH	ITEM DESCRIPTION	U/M	CLASS	UNIT PRICE	GST	PST	DISC%	EXTENSION
150	150		0 18LEDREFL40/270		LED 18W BR40 DIM 2700K	EA	I68	35.000	T	T	0.00	5250.00

Satco

- REF#: 1Z0279E60359385582
- REF#: 1Z0279E60358715995
- REF#: 1Z0279E60359085003
- REF#: 1Z0279E60359497774

INVOICE SUB-TOTAL : 5250.00  
FREIGHT CHARGE : 15.00

INVOICE TOTAL : 5265.00

I N V O I C E

Balance Due to Littmer \$ 765.00

Rebate 40% \$ 2,106

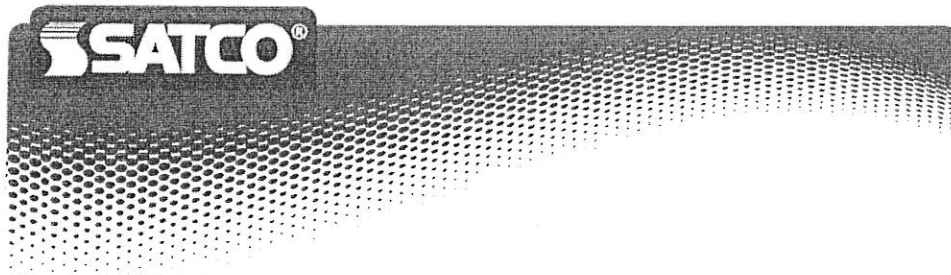
Table 1C: New Construction Lighting Systems Inventory Worksheet

Building and Room Identification (Installation Site): \_\_\_\_\_

Proposed Fixtures									
Ex.	Location	Product Code (Table 1A)	Qty	Lamp/Ballast Description	*Device Code	Proposed Watts per Fixture/Device	**Annual Operating Hours	Unit Incentive \$	Total Incentive \$
1	Lobby-East Entrance	10	4	4' 2 lamp T8 Electronic	2F28EEL	42	3,200	\$10	\$40
2	apartment + hallway		150	18 w led BLUO DIM		18.0	2184		\$2106
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
Total Requested Incentive (this page):									\$ 2106

NOTE: An electronic version (Excel) of this sheet must be submitted for inventories exceeding this page.  
 \* The Device Code list is available at [https://www1.nationalgridus.com/files/AddedPDF/POA/RI\\_Lighting\\_Device\\_Codes\\_New\\_Const.pdf](https://www1.nationalgridus.com/files/AddedPDF/POA/RI_Lighting_Device_Codes_New_Const.pdf).  
 \*\* Facility lighting must average a minimum of 2,000 hours per year, except Municipal Facilities who must contact their Program Administrator for more information on eligibility requirements.





# 18R40/LED /2700K /1

18 watt; R40 LED; 2700K; 105° beam spread; Medium base; 120 volts

**Features**

- Solid State LED lighting
- Reflector replacement lamp
- Long life
- Dimmable

[View Dimmer Compatibility](#)



V

UPC	045923090493
Voltage	120
Watts	18
Lamp Shape	R40
Base	Medium
ANSI Base	E26
Lamp Code	18R40/LED 2700K/1200L/120V/D
MOL In Inches	6.46"
MOD In Inches	5.00"
Initial Lumens	1200
Average Rated Hours	25000
Kelvin Temp	2700
Color	Warm White
CRI	80
Beam Spread	105
Pack	12.6
Package Type	Box
ENERGY STAR	ENERGY STAR
RoHS Compliant	Yes
UL or ETL Listed	Yes
Status	To Be Discontinued
Suggested Substitute	<a href="#">S9180</a>

 **SATCO**®

**S9049**

**12 PCS**

**120V E26 18W DIMMABLE LED BR40 2700K**

**MADE IN CHINA**



1 00

	Watts	Run Hours	Kwhrs saved Each Fixture	No. Of fixtures	Kwhs saved per year	\$ Savings per year Rate .15613
75 Watt Halogen	75					
LED 18w BR40	<u>18</u>					
	57	2184	124.488	150	18673.2	\$ 2,915.45

6/18/2015 7:23:46 am

## Accounts Payable Batch Update

Page: 1

Line	Vendor Invoice	PO/Customer	Dispute Inv Type	1099	Vendor Name	Div	Account	Description	Dept	Actv	Invoice Reference	Amount	Pmt Type	Inv Date	Cr Card	GL Date	Due Date	
1	728				CHALKIADAKIS, NIKOLAOS								Check	06/18/15				
			No		Demand Side Management		0254.02		0	0	150- 18W LED Lights for Apartments	2,106.00		06/18/15				
							WO: D11503				Amt: 2,106.00			06/18/15				
							Chg Code: 99											
																		2,106.00

Accounts Payable  
Batch Update

Vendor Summary

Vendor	Vendor Name	Invoices	Misc Credits	Total Due
728	CHALKIADAKIS, NIKOLAOS	2,106.00	0.00	2,106.00
		\$ 2,106.00	\$ 0.00	\$ 2,106.00

Accounts Payable  
Batch Update

Vendor Summary By Period

Vendor	Vendor Name	Invoices	Misc Credits	Total Due
iod: Jun 2015 728	CHALKIADAKIS, NIKOLAOS	2,106.00	0.00	2,106.00
		2,106.00	0.00	2,106.00
	Grand Total:	\$ 2,106.00	\$ 0.00	\$ 2,106.00

Total For Jun 2015:

Grand Total:

Accounts Payable  
Batch Update

Material Inventory Summary

m	Description	Group	UOM	Received		Material Summary By Item		On-Hand Unit Cost	Amount
				Quantity	Amount	Quantity	Amount		

Invoices:	2,106.00
Misc Credits:	0.00
Sales Tax:	0.00
Addl Chgs:	0.00
Total Due:	2,106.00
Use Tax:	0.00
Total Invoices:	1
Total Misc Credits:	0
Total Transactions:	1
Journal:	0

728

Processed 6/16/15

# Lighting Systems & Sensors Application 2015 Retrofit

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ALL FIELDS ON THIS PAGE ARE REQUIRED TO COMPLETE YOUR APPLICATION.

## CUSTOMER/ACCOUNT HOLDER INFORMATION

COMPANY NAME <i>CHALKIA DAKIS</i> <i>Nikolas Chalkiadakis</i>	CONTACT PERSON <i>NIKO</i>	APPLICATION DATE <i>6-15-15</i>
INSTALL SITE <i>218 Hamsville Main St</i>	PHONE <i>508-476-3770</i>	FAX NUMBER
EMAIL ADDRESS	SQUARE FEET (COVERED BY THIS APPLICATION)	
STREET ADDRESS <i>216 Hamsville Main St</i>	CITY <i>Hamsville</i>	STATE <i>RI</i> ZIP <i>02830</i>
MAILING ADDRESS (IF DIFFERENT)	CITY	STATE ZIP
ELECTRIC COMPANY NAME <i>Pascoog Utility District</i>	ELECTRIC ACCOUNT NUMBER (OR COPY OF ELECTRIC BILL) <i>11399002</i>	
GAS COMPANY NAME	GAS ACCOUNT NUMBER (OR COPY OF GAS BILL)	

BUILDING TYPE (PLEASE PLACE "X" IN APPROPRIATE BALLOT BOX)

- |  |  |   |  |  |                                       |
|--|--|---|--|--|---------------------------------------|
| <input type="checkbox"/> ASSEMBLY          | <input type="checkbox"/> FAST FOOD               | <input type="checkbox"/> HOTEL                    | <input type="checkbox"/> MULTI-STORY RETAIL    | <input type="checkbox"/> RELIGIOUS               | <input type="checkbox"/> SMALL RETAIL |
| <input type="checkbox"/> AUTOMOTIVE        | <input type="checkbox"/> FULL SERVICE RESTAURANT | <input type="checkbox"/> LARGE REFRIGERATED SPACE | <input type="checkbox"/> MULTIFAMILY HIGH-RISE | <input type="checkbox"/> K-12 SCHOOL             | <input type="checkbox"/> UNIVERSITY   |
| <input type="checkbox"/> BIG BOX           | <input type="checkbox"/> GROCERY                 | <input type="checkbox"/> LARGE OFFICE             | <input type="checkbox"/> MULTIFAMILY LOW-RISE  | <input checked="" type="checkbox"/> SMALL OFFICE | <input type="checkbox"/> WAREHOUSE    |
| <input type="checkbox"/> COMMUNITY COLLEGE | <input type="checkbox"/> HEAVY INDUSTRIAL        | <input type="checkbox"/> LIGHT INDUSTRIAL         | <input type="checkbox"/> OTHER:                |  |                                       |
| <input type="checkbox"/> DORMITORY         | <input type="checkbox"/> HOSPITAL                | <input type="checkbox"/> MOTEL                    |  |  |                                       |

## PAYMENT METHOD (PAYEE MUST SUBMIT A W-9 FORM)

PAYMENT TO: <input type="checkbox"/> CUSTOMER <input type="checkbox"/> VENDOR/INSTALLER	CUSTOMER - TAX ID# (REQUIRED)	VENDOR/INSTALLER - TAX ID# (REQUIRED IF RECEIVING INCENTIVE)
CHECK PAYABLE TO:	CUSTOMER COMPANY TYPE: <input type="checkbox"/> INC. <input type="checkbox"/> NOT INCORP. <input type="checkbox"/> EXEMPT	VENDOR COMPANY TYPE: <input type="checkbox"/> INC. <input type="checkbox"/> NOT INCORP. <input type="checkbox"/> EXEMPT

## VENDOR INFORMATION

AUTHORIZED VENDOR/INSTALLER <i>Northern Elec</i>	CONTACT NAME <i>Bob Lombardi</i>
STREET ADDRESS	CITY STATE ZIP
PHONE <i>323-3501</i>	EMAIL ADDRESS
DATE <i>6-15-15</i>	AUTHORIZED VENDOR/INSTALLER SIGNATURE (NOT APPLICABLE IF CUSTOMER IS PAYEE) <b>X</b>

## CUSTOMER ACCEPTANCE OF TERMS

PRE-INSTALLATION <input checked="" type="checkbox"/> I CERTIFY THAT ALL STATEMENTS MADE IN THIS APPLICATION ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT I HAVE READ AND AGREE TO THE TERMS AND CONDITIONS ON THE BACK OF THIS FORM.	ANTICIPATED COMPLETION DATE
DATE	PRINT NAME
	AUTHORIZED SIGNATURE <b>X</b>
POST-INSTALLATION <input checked="" type="checkbox"/> I CERTIFY THAT I HAVE SEEN THE ENERGY EFFICIENCY MEASURES THAT HAVE BEEN INSTALLED AND I AM SATISFIED WITH THEIR INSTALLATION.	
DATE <i>6/15/15</i>	PRINT NAME <i>William Guerra</i>
	AUTHORIZED SIGNATURE <b>X</b>

Cost \$2996 x .60 = \$1797.60



Taunton - Granite City Electric  
 250 Revolutionary Dr  
 Taunton, MA 02718  
 508-823-4596 Fax 508-823-1762

\*\* SHIP TICKET \*\*  
 Order #: S5424894.001  
 P/O # : NIKOS  
 Printed: 19:36:30 03 JUN 2015  
 Page # : 1 of 1



Sold To:  
 Northern Electric - Bob Lombardi  
 1796 Roundtop Rd  
 Harrisville, RI 02830  
 401-323-3501

Ship To:  
 Northern Electric - Bob Lombardi  
 216 MAIN STREET  
 NIKOS PIZZA  
 Harrisville, RI 02830

Ordered by BOB	Order Date 06/03/15	Ship Date 06/03/15	Ship Via 42 OT RI NORTH	Warehouse Shp 42 Prc 16
Writer John Tate 774-460-3090	Salesperson John Tate 774-460-3090	Release #	Freight Allowed No	

Ordered	Shipped	Product Description	Net Prc	Ext Prc
		***** Shipping Instructions *****		
		* *****	*	
		* PLEASE CALL BOB WHEN THERE	*	
		* 401-323-3501	*	
		* THANKS	*	
		* *****	*	
		*****		
20ea	20ea	LIT 2FSL2 33L EZ1 LP835	140.000ea	2800.00
		2X2 FS SERIES RECESSED LED TROFFER		
		3500K NEUTRAL WHITE		
		Loc: U-EA00504 Pn: 893772		
		Loc: NC00100 Loc: U-EC01905		

*office space*

Tote: TOTE-4288 Picker: RDOSSANT Loc: RINO

Packages: Ctns:	Reel:	Bdls:	Pces:	Coil:	Bags:	Skid: 1
SUBTOTAL						2800.00
SALES TAX						196.00
Total Amount						2996.00

Filled by \_\_\_\_\_ Checkd by \_\_\_\_\_ Ctns \_\_\_\_\_ Reel \_\_\_\_\_ Bdls \_\_\_\_\_ Pces \_\_\_\_\_ Coil \_\_\_\_\_ Bags \_\_\_\_\_ Skid \_\_\_\_\_

Customer Signature: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

This signed receipt acknowledges that the above merchandise has been delivered and/or received in perfect condition.

NOTE: No returns w/o authorization. Authorized returns subject to minimum 25% restocking charge. Overdue accounts will be charged 1.5% per month financing charge. Electrical, special order & installed parts may not be returned.



## FEATURES & SPECIFICATIONS

**INTENDED USE** — The FS Series recessed LED luminaire combines modern aesthetics and performance in a general lighting product that enables the transformation from fluorescent to LED. The high efficacy light engine delivers long life and excellent color to ensure a quality lighting installation. Integrated controls options provide for design flexibility and optimum energy savings. Multiple lumen packages and driver options provide solutions for all your lighting applications. **Certain airborne contaminants can diminish integrity of acrylic. [Click here for Acrylic Environmental Compatibility table for suitable uses.](#)**

**CONSTRUCTION** — Rugged, one-piece cold-rolled steel coated polyester, painted after fabrication. The satin white lens provides excellent shielding and wide distribution. End plates include integral T-bar clips. Fixture may be mounted and wired in continuous rows. Total fixture height is only 4-3/8".

**ELECTRICAL** — Long-life LEDs, coupled with high-efficiency drivers, provide superior illumination for extended service life. 90% LED lumen maintenance at 60,000 hours (L90/60,000).

eldoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Optional integrated nLight® controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices and the FSL luminaires using standard CAT-5 cabling. Unique plug-and-play convenience allows devices and luminaires to automatically discover each other and self-commission.

Lumen Management: Unique lumen management system (option N80) provides onboard intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Step-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

Driver disconnect provided where required to comply with US and Canadian codes.

**INSTALLATION** — Unique grid interfacing arrangement provides mounting into standard 1" and 9/16" tee bar or screw slot grids. 9/16" allows fixture trim to hang level with architectural ceiling tiles. Drywall ceiling adaptors available. Suitable for damp location.

**LISTINGS** — CSA certified to meet US and Canadian standards. IC rated. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

**WARRANTY** — 5-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

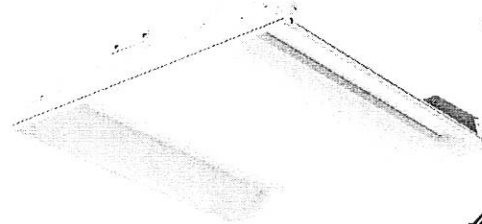
Specifications subject to change without notice.

Catalog Number
Notes
Type

FS Series

# 2FSL2

2' x 2'  
LED



Stock Configurations
2FSL2 33L EZ1 LP835
2FSL2 33L EZ1 LP840

### ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

**Example:** 2FSL2 20L EZ1 LP835 N100

Series	Air function	Lumens	Lens	Voltage	Driver	Color temperature	Controls <sup>1</sup>	Options
2FSL2 2X2 FSL	(blank) Static H Heat removal	20L 2000 <sup>1</sup> 33L 3300 <sup>1</sup> 40L 4000 <sup>1</sup>	(blank) Satin white	(blank) MVOLT 347 347 <sup>2</sup>	EZ1 eldoLED dims to 1%, 0-10V EZB eldoLED dims to black, 0-10V EDB eldoLED DALI <sup>3</sup> EXB eldoLED DMX/RDM <sup>3</sup> SLD Step-level dimming <sup>3,4</sup> EXA1 Dims to 1%, XPoint wireless enabled EXAB Dims to dark, XPoint wireless enabled	LP830 3000 K LP835 3500 K LP840 4000 K LP850 5000 K	(blank) No controls N80 nlight® with 80% lumen management N80EMG nlight® with 80% lumen management. For use with generator supply EM power. N100 nlight® without lumen management N100EMG nlight® without lumen management. For use with generator supply EM power.	EL7L 700 lumen battery pack EL14L 1400 lumen battery pack CP Chicago plenum PWS1836 6' prewire, 3/8" diameter, 18-gauge, 1-circuit PWS1846 6' prewire, 3/8" diameter, 18-gauge, 2-circuit RRL_ RELOC®-ready luminaire <sup>6</sup> NPLT Narrow pallet

Accessories: Order as separate catalog number.	
2FS2 F916	Trim to adjust fixture mounting flush with 9/16" T-bar; for 2x2 fixture
DGA22	Drywall ceiling adaptor, unit installation <sup>7</sup>

#### Notes

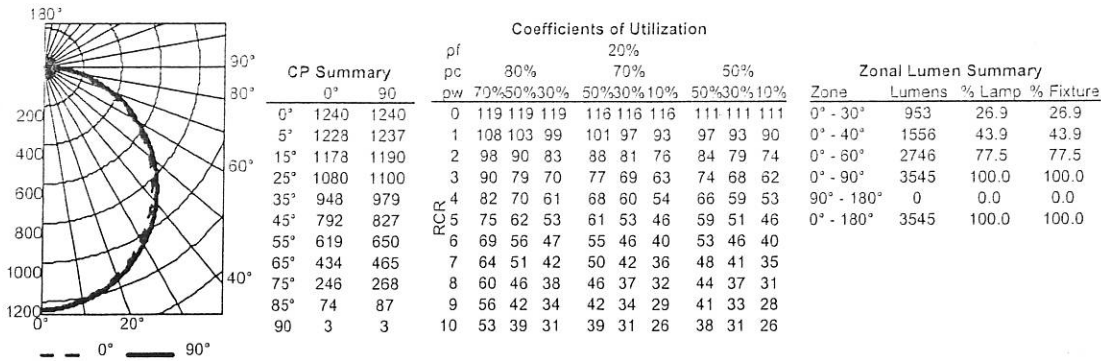
- 1 Approximate lumen output.
- 2 Consult factory for availability. Not available with SLD, EL7L, or EL14L.
- 3 Not available with N80, N80EMG, N100 or N100EMG.
- 4 When using prewire option, use PWS1846.
- 5 nIO access limitations with 20L or EZB.
- 6 For ordering logic consult: [RRL\\_2013](#).
- 7 When DGA kits are used, order 2FS2 F916 accessory.

# 2FSL2 LED Recessed Lighting 2'x2'

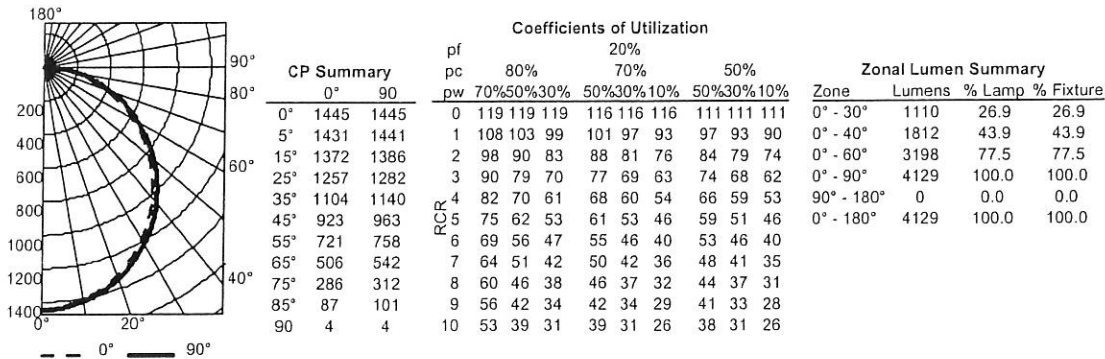
Performance Data			
Lumen package	Input watts <sup>1</sup>	Lumens	LPW
20L LP830	20.4	2048	100
20L LP835	20.4	2134	105
20L LP840	20.5	2196	107
20L LP850	20.5	2333	114
33L LP830	34.4	3318	96
33L LP835	34.6	3544	103
33L LP840	34.7	3626	105
33L LP850	34.9	3839	110
40L LP830	41.7	3857	93
40L LP835	41.9	4127	99
40L LP840	42.1	4209	100
40L LP850	41.2	4502	109

## PHOTOMETRICS

2FSL2 33L LP835, test no. LTL24691P5, tested in accordance to IESNA LM-79

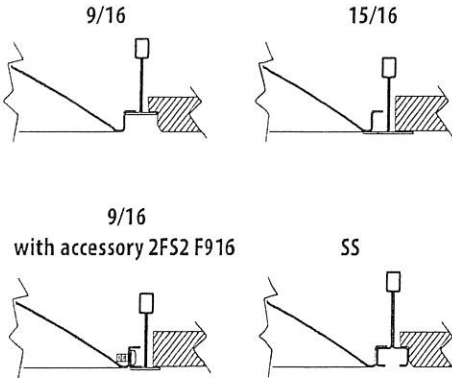


2FSL2 40L LP835, test no. LTL24691P9, tested in accordance to IESNA LM-79



# 2FSL2 LED Recessed Lighting 2'x2'

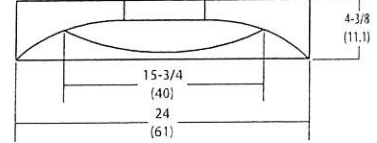
## MOUNTING DATA



## DIMENSIONS

All dimensions are inches (centimeters) unless otherwise specified.

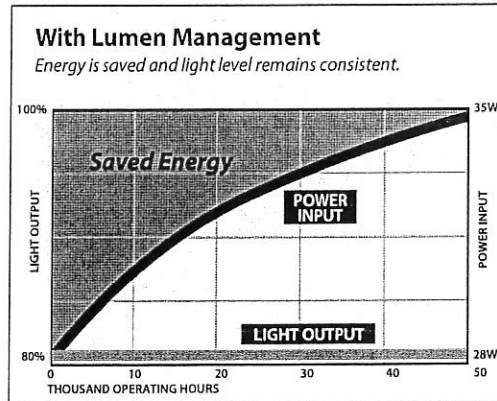
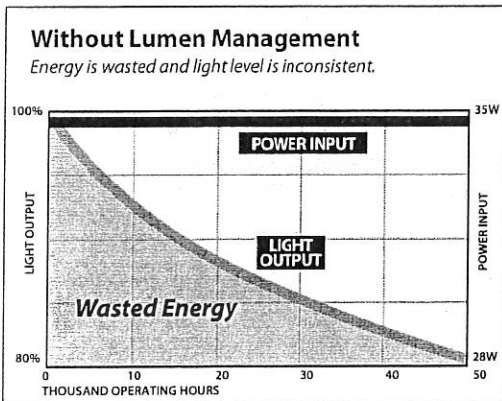
*Specifications*  
 Length: 24 (61.0)  
 Width: 24 (61.0)  
 Depth: 4-3/8 (11.1)



nLight® Control Accessories:			
Order as separate catalog number. Visit <a href="http://www.sensorswitch.com/nLight">www.sensorswitch.com/nLight</a> for complete listing of nLight controls.			
<b>WallPod stations</b>	<b>Model number</b>	<b>Occupancy sensors</b>	<b>Model number</b>
On/Off	nPODM [color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPODM DX [color]	Large motion 360°, ceiling (PIR / dual tech)	nCM 10 / nCM PDT 10
Graphic Touchscreen	nPOD GFX [color]	Wide view (PIR / dual tech)	nWV 16 / nWV PDT 16
<b>Photocell controls</b>	<b>Model number</b>	Wall Switch w/ Raise/Lower (PIR / dual tech)	nWSX LV DX / nWSX PDT LV DX
On/Off & Dimming	nCM ADCX	<b>Cat-5 cable (plenum rated)</b>	<b>Model number</b>
		10', CAT5 10FT	CAT5 10FT J1
		15', CAT5 15FT	CAT5 15FT J1

## Constant Lumen Management

Enabled by the embedded nLight control, the FSL actively tracks its run-time and manages its light source such that constant lumen output is maintained over the system life. Referred to as lumen management, this feature eliminates the energy waste created by the traditional practice of over-lighting.



### Notes

With nLight 80% lumen management input watts start at 28 and gradually increasing to 35 at 50,000 hrs when using 33L system.

Table 1C: Retrofit Lighting Systems Inventory Worksheet

Building and Room Identification (Installation Site): 218 Harrisville, N. 31. Office Space

Existing Fixtures (Retrofit-only)				Proposed Fixtures									
Ex.	Location	Qty	Lamp/Ballast Description	*Device Code	Existing Watts per Fixture/Device	Product Code (Table 1A)	Qty	Lamp/Ballast Description	*Device Code	Proposed Watts per Fixture/Device	**Annual Operating Hours	Unit Incentive \$	Total Incentive \$
1	Lobby-East Entrance	4	4' 3 lamp T12 Magnetic	3F40SEM	110 watts	12	4	4' 2 lamp 28 watt RW T8 w/ LP Electronic Ballast	2F28EEL	42 watts	3,200 hours	\$15	\$60
2	Office Space	12	T-8	2F32SST	78w		12			34.6	3200		
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
<b>Total Requested Incentive (this page):</b>													

NOTE: An electronic version (Excel) of this sheet must be submitted for inventories exceeding this page.

\* The Device Code list is available at <https://www1.nationalgridus.com/files/AddedPDF/POA/RILightingRetrofit1.pdf>.

\*\* Facility lighting must average a minimum of 2,000 hours per year, except Municipal Facilities who must contact their Program Administrator for more information on eligibility requirements.

	Watts	Run Hours	Kwhrs saved Each Fixture	No. Of fixtures	Kwhs saved per year	\$ Savings per year Rate
2f32ssh - T8	78					.15613
2fsl2 LED's	<u>34.6</u>					
	43.4	3200	138.88	20	2777.6	\$ 433.67

06/18/2015 7:30:42 am

## Accounts Payable General Ledger Accounting Summary

Journal : 20159459

Description : Invoice

Created By : pscghjr

Post As : Approved

line	Div	Account	Description	Dept	Actv	Reference	Date	Debit	Credit
1	1	0232.0	Accounts Payable	0	0	150- 18W LED Lights for Apartments	06/18/2015		
2	1	0254.02	Demand Side Management	0	0	150- 18W LED Lights for Apartments	06/18/2015	2,106.00	2,106.00
<b>Total For Journal 20159459:</b>								\$ 2,106.00	\$ 2,106.00

## Accounts Payable General Ledger Accounting Summary

Summary By Acct/Dept

Div	Account	Description	Dept	Amount
1	0232.0	Accounts Payable	0	-2,106.00
<b>Total For 1 0232.0:</b>			0	-2,106.00
1	0254.02	Demand Side Management	0	2,106.00
<b>Total For 1 0254.02:</b>			0	2,106.00

Total Number Of Transactions: 2  
 Total Number Of Debits: 1  
 Total Number Of Credits: 1

\* No Errors Detected, Posting Complete \*\*\*



## Accounts Payable Batch Update

ch: DSM REBATE - 2015 DSM Rebates One-Time

Vendor Invoice PO/Customer	Dispute Inv Type 1099	Vendor Name	Div Account	Description	Dept	Acty Distribution Reference	Invoice Reference	Amount	Pmt Type Cr Card	Inv Date GL Date
1 728	No	CHALKIADAKIS, NIKOLAOS	1 0254.02	Demand Side Management	0	0	150- 18W LED Lights for Apartments	2,106.00	Check	06/18/15
			WO: DI1503				150- 18W LED Lights for Apartments Amt: 2,106.00	2,106.00		06/18/15
								2,106.00		

Chg Code: 99

# Accounts Payable Batch Update

## Vendor Summary

Vendor	Vendor Name	Invoices	Misc Credits	Total Due
728	CHALKIADAKIS, NIKOLAOS	2,106.00	0.00	2,106.00
		\$ 2,106.00	\$ 0.00	\$ 2,106.00

Accounts Payable  
Batch Update

Vendor Summary By Period

Vendor	Vendor Name	Invoices	Misc Credits	Total Due
728	CHALKIADAKIS, NIKOLAOS	2,106.00	0.00	2,106.00
		2,106.00	0.00	2,106.00
		\$ 2,106.00	\$ 0.00	\$ 2,106.00

Total For Jun 2015:

Grand Total:

Accounts Payable  
Batch Update

Material Inventory Summary

n	Description	Group	UOM	Material Summary By Item		
				Received Quantity	Amount	On-Hand Unit Cost

Invoices:	2,106.00
Misc Credits:	0.00
Sales Tax:	0.00
Addl Chgs:	0.00
Total Due:	2,106.00
Use Tax:	0.00
Total Invoices:	1
Total Misc Credits:	0
Total Transactions:	1
Journal:	20159459

\$ 1293.12

# Lighting Systems Application 2015 New Construction Program

ALL FIELDS ON THIS PAGE ARE REQUIRED TO COMPLETE YOUR APPLICATION.

## CUSTOMER/ACCOUNT HOLDER INFORMATION

COMPANY NAME <i>Pascoag Water District</i>		CONTACT PERSON <i>Mike Lima</i>	APPLICATION DATE <i>1-2015</i>
INSTALL SITE	PHONE	FAX NUMBER	
EMAIL ADDRESS		SQUARE FEET (COVERED BY THIS APPLICATION)	
STREET ADDRESS		CITY	STATE ZIP
MAILING ADDRESS (IF DIFFERENT)		CITY	STATE ZIP
ELECTRIC COMPANY NAME <i>Pascoag Utility District</i>		ELECTRIC ACCOUNT NUMBER (OR COPY OF ELECTRIC BILL) <i>11016002</i>	
GAS COMPANY NAME		GAS ACCOUNT NUMBER (OR COPY OF GAS BILL)	

BUILDING TYPE (PLEASE PLACE "X" IN APPROPRIATE BALLOT BOX)

- |  |  |   |  |                                       |                                       |
|--|--|---|--|---------------------------------------|---------------------------------------|
| <input type="checkbox"/> ASSEMBLY          | <input type="checkbox"/> FAST FOOD               | <input type="checkbox"/> HOTEL                    | <input type="checkbox"/> MULTI-STORY RETAIL    | <input type="checkbox"/> RELIGIOUS    | <input type="checkbox"/> SMALL RETAIL |
| <input type="checkbox"/> AUTOMOTIVE        | <input type="checkbox"/> FULL SERVICE RESTAURANT | <input type="checkbox"/> LARGE REFRIGERATED SPACE | <input type="checkbox"/> MULTIFAMILY HIGH-RISE | <input type="checkbox"/> K-12 SCHOOL  | <input type="checkbox"/> UNIVERSITY   |
| <input type="checkbox"/> BIG BOX           | <input type="checkbox"/> GROCERY                 | <input type="checkbox"/> LARGE OFFICE             | <input type="checkbox"/> MULTIFAMILY LOW-RISE  | <input type="checkbox"/> SMALL OFFICE | <input type="checkbox"/> WAREHOUSE    |
| <input type="checkbox"/> COMMUNITY COLLEGE | <input type="checkbox"/> HEAVY INDUSTRIAL        | <input type="checkbox"/> LIGHT INDUSTRIAL         | <input type="checkbox"/> OTHER:                |                                       |                                       |
| <input type="checkbox"/> DORMITORY         | <input type="checkbox"/> HOSPITAL                | <input type="checkbox"/> MOTEL                    |  |                                       |                                       |

PROJECT TYPE (select one)

- |  |   |   |   |
|--|---|---|---|
| <input type="checkbox"/> CHANGE IN THE USE OR FUNCTION OF THE BUILDING SPACE | <input type="checkbox"/> NEW BUILDING                     | <input type="checkbox"/> EXPANSION OF AN EXISTING BUILDING    | <input type="checkbox"/> PLANNED REPLACEMENT OF EQUIPMENT |
| <input type="checkbox"/> NEW EQUIPMENT FOR NEW PROCESS OR EXPANDED OPERATION | <input type="checkbox"/> RENOVATION OF EXISTING EQUIPMENT | <input type="checkbox"/> NEW CONTROLS FOR IMPROVED OPERATIONS | <input type="checkbox"/> REPLACEMENT OF FAILED EQUIPMENT  |

## PAYMENT METHOD (PAYEE MUST SUBMIT A W-9 FORM)

PAYMENT TO: <input type="checkbox"/> CUSTOMER <input type="checkbox"/> VENDOR/INSTALLER	CUSTOMER - TAX ID# (REQUIRED)	VENDOR/INSTALLER - TAX ID# (REQUIRED IF RECEIVING INCENTIVE)
CHECK PAYABLE TO:	CUSTOMER COMPANY TYPE: <input type="checkbox"/> INC. <input type="checkbox"/> NOT INCORP. <input type="checkbox"/> EXEMPT	VENDOR COMPANY TYPE: <input type="checkbox"/> INC. <input type="checkbox"/> NOT INCORP. <input type="checkbox"/> EXEMPT

## VENDOR INFORMATION

AUTHORIZED VENDOR/INSTALLER	CONTACT NAME
STREET ADDRESS	CITY STATE ZIP
PHONE	EMAIL ADDRESS
DATE	AUTHORIZED VENDOR/INSTALLER SIGNATURE (NOT APPLICABLE IF CUSTOMER IS PAYEE.) <b>X</b>

## CUSTOMER ACCEPTANCE OF TERMS

PRE-INSTALLATION

I CERTIFY THAT ALL STATEMENTS MADE IN THIS APPLICATION ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT I HAVE READ AND AGREE TO THE TERMS AND CONDITIONS ON THE BACK OF THIS FORM. ANTICIPATED COMPLETION DATE

DATE <i>20150413</i>	PRINT NAME <i>William Guertin</i>	AUTHORIZED SIGNATURE <b>X</b> <i>William Guertin</i>
-------------------------	--------------------------------------	---

POST-INSTALLATION

I CERTIFY THAT I HAVE SEEN THE ENERGY EFFICIENCY MEASURES THAT HAVE BEEN INSTALLED AND I AM SATISFIED WITH THEIR INSTALLATION.

DATE <i>20150413</i>	PRINT NAME <i>William Guertin</i>	AUTHORIZED SIGNATURE <b>X</b> <i>William Guertin</i>
-------------------------	--------------------------------------	---

## Pascoag Utility District Water Department

### Old Fixture Type

Type	Devis Description	Rated Watts	Run Time in Hours	No. Days Per Year	No. of Fixtures	Total Watts per Year	kWH per year
2F96HES	2L8' HO/EE/STD	277	8	260	6	3456960	3457

### New Fixtures

1L042	LED Strip Light	42	8	260	10	873600	874
							<b>2583 kWh saved per year</b>
						2583 x .1561 =	<b>\$ 403.26 savings per year</b>

Materials \$ 2,340.00  
 Labor \$ 892.80  
\$ 3,232.80 x .40 =

\$ **1,293.12** DSM Rebate  
 \$ 1,939.68 PUD Water Dept Portion

Search Type: 10 10 10  
 Period: 01 - Jan 2015  
 Include Secondary Distribution

**Labor Detail: 10 - JAMES BARRENTINE**

Employee	First Name	Last Name	Pay	Description	Job Code	Date	Total Amount	GL Division	GL Account	GL Account Description	Work Order	Hours	Labor Amount	Tax At
10	JAMES	BARRENTINE	0	REGULAR		01/20/2015	297.60	2 - WATER	2107.200	Water CWIP-CWIP	201501	8.00	297.60	297.60
10	JAMES	BARRENTINE	0	REGULAR		01/22/2015	297.60	2 - WATER	2307.200	Water CWIP-CWIP	201501	8.00	297.60	297.60

Search | Advanced Search

892.80  
 24.00  
 892.80

- Accounts Payable
- Asset Management
- Bank Reconciliation
- Budget
- Cost Management
- General Ledger
- Payment Loan
- Physical Inventory
- Prepaid Receivable
- Roll Labor
- Employee Entry
- Mass Change
- History Inquiry
- 2-Month Labor
- Advance
- Benefit
- Reduction
- Labor Detail
- Labor Summary
- Time Off
- Pay Information
- Days And Hours
- Max
- taxable Benefit
- Administration
- Reports/Processes

My Favorites

**NE NorthEast Electrical**  
 DISTRIBUTORS  
 NorthEast Electrical Distributors  
 560 Oak Street  
 Brockton, MA 02301



Branch Serving You:  
 NORTHEAST ELECTRICAL  
 DISTRIBUTORS  
 895 CUMBERLAND HILL RD  
 WOONSOCKET RI 02895-5611  
 401-762-3871 Fax 401-765-6239

**INVOICE**  
 S021027647.00  
 01/13/15  
 Page 1 of

**SOLD TO:**  
 31 2 SP 0.690 E0031 I0247 D12039 12044 P2369903 0005:0006

**SHIPPED TO: 91865**



PASCOAG UTILITY DISTRICT  
 PO BOX 107  
 PASCOAG RI 02859-0107

PASCOAG UTILITY  
 PASCOAG UTILITY DISTRICT  
 253 MAIN STREET  
 PASCOAG RI 02859-3518

ACCOUNT NUMBER	CUSTOMER PO NUMBER	RELEASE NUMBER	ORDERED BY			
77375	LED FIXTURES		CHRIS			
SALESMAN	INVOICE NUMBER	SHIPPING BRANCH	SHIP DATE	SHIP VIA		
DOROTHY MCGEE	S021027647.001	NCAN	01/13/2015	RT20		
SKU	DESCRIPTION	ORDER QTY	SHIP QTY	UNIT PRICE	UOM	EXT PRICE
82047680093	LITH ZL1NL485000LMFSTMVOLT40K80CRIWH 48IN Z LED STRIP 5000 LUMEN 4000K CI CODE 224C5C	8	8	130.00	ea	1,040.00

*Oh to pay  
 bill for  
 wo 201501 water station  
 Bl acct # 2107.20*

Group # \_\_\_\_\_  
 Trans # \_\_\_\_\_  
 Vendor # \_\_\_\_\_  
 Invoice # 54 5021027647.001  
 Account # 2107.20  
 Check # 454336  
 Check Date 2-10-15



**It's Easy Being Green.  
 Go Paperless Today!**

Receive, store, view, and pay your  
 invoices online at:  
<http://needco.billtrust.com>

All payments are due by 02/12/15..

A monthly service charge, up to the maximum allowed by law, will be added  
 to all past due invoices.



*[Signature]*  
 Signature Date 01/13/15

SUBTOTAL	1,040.00
S & H CHARGES	0.00
SALES TAX	0.00
<b>TOTAL DUE</b>	<b>1,040.00</b>

**Payment Mailing Address:**  
 NORTHEAST ELECTRICAL DISTRIBUTORS  
 PO BOX 415031



**NorthEast  
Electrical**  
DISTRIBUTORS

NORTHEAST ELECTRICAL DISTRIBUTORS  
95 CUMBERLAND HILL RD  
WOONSOCKET, RI 02895-5611  
401-762-3871 Fax 401-765-6239



S021027647.001

Ship Ticket

SHIP VIA
RT20
PAGE
1 of 1

dorothy.mcgee@needco.com

**SOLD TO:**  
PASCOAG UTILITY DISTRICT  
PO BOX 107  
PASCOAG, RI 02859-0107  
401-568-6222 Fax: 401-568-0066

**SHIP TO:**  
PASCOAG UTILITY  
PASCOAG UTILITY DISTRICT  
253 MAIN STREET  
PASCOAG, RI 02859-3518  
Fax:

CUSTOMER NUMBER	CUSTOMER ORDER NUMBER	JOB NAME	ORDERED BY				
91865	LED FIXTURES		CHRIS				
WRITER	SALES ORDER#	SHIP BRANCH	SHIP DATE				
DOROTHY MCGEE	S021027647.001	NCAN	01/12/15				
ORDER QTY	SHIP QTY	UM	DESCRIPTION	UNIT PRICE	U	EXT PRICE	
8	8	ea	LITH ZL1NL485000LMFSTMVOLT40K80CRIWH 48IN Z LED STRIP 5000 LUMEN 4000K CI CODE 224C5C	130.000	e	1040.00	
						Subtotal	1040.00
						S&H CHGS	0.00
						Sales Tax	0.00
						Amount Due	1040.00

Stage Loc: QUAD6-RT20  
Totals: CTNS 1 COIL BUND REEL SKID

TERMS & CONDITIONS

**NE NorthEast Electrical**  
 DISTRIBUTORS  
 NorthEast Electrical Distributors  
 560 Oak Street  
 Brockton, MA 02301

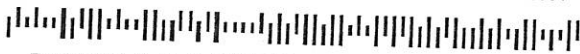


Branch Serving You:  
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 WOONSOCKET RI 02895-5611  
 401-762-3871 Fax 401-765-6239

**INVOICE**  
 S021035421.001  
 01/14/15  
 Page 1 of 1

**SOLD TO:**  
 425 1 MB 0.435 E0367X I0748 D1204964735 P2371619 0001:0001

**SHIPPED TO: 91865**



PASCOAG UTILITY DISTRICT  
 PO BOX 107  
 PASCOAG RI 02859-0107

PASCOAG UTILITY  
 PASCOAG UTILITY DISTRICT  
 253 MAIN STREET  
 PASCOAG RI 02859-3518

ACCOUNT NUMBER	CUSTOMER PO NUMBER	RELEASE NUMBER	ORDERED BY			
77375	LED FIXTURES					
SALESMAN	INVOICE NUMBER	SHIPPING BRANCH	SHIP DATE	SHIP VIA		
DON DUFFY	S021035421.001	NCAN	01/14/2015	RT20		
SKU	DESCRIPTION	ORDER QTY	SHIP QTY	UNIT PRICE	UOM	EXT PRICE
82047680093	LITH ZL1NL485000LMFSTMVOLT40K80CRIWH 48IN Z LED STRIP 5000 LUMEN 4000K CI CODE 224C5C	10	10	130.00	ea	1,300.00

Group # \_\_\_\_\_  
 Trans # \_\_\_\_\_  
 Vendor # 2213 JAN 3 4 RECD  
 Invoice # S021035421.001  
 Account # 2107.20  
 Check # 454336  
 Check Date 2-10-15

*Oh TO pay  
 will pay  
 wo  
 201501 water station  
 GL 2107.00*



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SUBTOTAL	1,300.00
S & H CHARGES	0.00
SALES TAX	0.00
<b>TOTAL DUE</b>	<b>1,300.00</b>

*X* Raymond 01/13/15  
 Signature Date  
Duffy

Payment Mailing Address:  
 NORTHEAST ELECTRICAL DISTRIBUTORS



NORTHEAST ELECTRICAL DISTRIBUTORS  
 895 CUMBERLAND HILL RD  
 WOONSOCKET, RI 02895-5611  
 401-762-3871 Fax 401-765-6239



S021035421.001

Ship Ticket

SHIP VIA
RT20
PAGE
1 of 1

don.duffy@needco.com

SOLD TO:  
 PASCOAG UTILITY DISTRICT  
 PO BOX 107  
 PASCOAG, RI 02859-0107  
 401-568-6222 Fax: 401-568-0066

SHIP TO:  
 PASCOAG UTILITY  
 PASCOAG UTILITY DISTRICT  
 253 MAIN STREET  
 PASCOAG, RI 02859-3518  
 Fax:

CUSTOMER NUMBER	CUSTOMER ORDER NUMBER	JOB NAME	ORDERED BY			
91865	LED FIXTURES					
WRITER	SALES ORDER#	SHIP BRANCH	SHIP DATE			
DON DUFFY	S021035421.001	NCAN	01/13/15			
ORDER QTY	SHIP QTY	UM	DESCRIPTION	UNIT PRICE	U	EXT PRICE
10	10	ea	LITH ZL1NL485000LMFSTMVOLT40K80CRIWH 48IN Z LED STRIP 5000 LUMEN 4000K CI CODE 224C5C	130.000	e	1300.00
<i>Oh TO pay Well / 201501</i>						
Subtotal						1300.00
S&H CHGS						0.00
Sales Tax						0.00
Amount Due						1300.00

Stage Loc: QUAD6-RT20  
 Totals: CTNS 1 COIL      BUND      REEL      SKID

EXISTING LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
<b>Five Foot T8 / T12 Systems (cont.)</b>		
2F60HSM	2L5' HO/STD/EEMAG	178
2F60SSM	2L5'/STD/EEMAG	122
3F40TSE	3L5'T8/ELIG	106

<b>Six Foot T12 &amp; T12HO Systems</b>		
1F72HSE	1L6'T8HO/ELIG	80
1F72HSS	1L6' F72HO/STD/STD	113
1F72SSM	1L6' STD/EEMAG	80
1F72SSS	1L6' STD/STD	95
2F72HSE	2L6'T8 HO/ELIG	160
2F72HSM	2L6' F72HO/STD/EEMAG	193
2F72HSS	2L6' F72HO/STD	195
2F72SSM	2L6' STD/EEMAG	135
2F72SSS	2L6' STD/STD	173

<b>Eight Foot T12HO Systems</b>		
1F96HES	1L8' HO/EE/STD	125
1F96HSS	1L8' HO/STD/STD	135
2F96HEE	2L8' HO/EE/ELIG	170
2F96HEM	2L8' HO/EE/EEMAG	207
2F96HES	2L8' HO/EE/STD	227 *
2F96HSE	2L8' HO/STD/ELIG	195
2F96HSM	2L8' HO/STD/EEMAG	237
2F96HSS	2L8' HO/STD/STD	257
3F96HES	3L8' HO/EE/STD	352
3F96HSS	3L8' HO/STD/STD	392
4F96HEE	4L8' HO/EE/ELIG	340
4F96HEM	4L8' HO/EE/EEMAG	414
4F96HES	4L8' HO/EE/STD	454
4F96HSE	4L8' HO/STD/ELIG	390
4F96HSM	4L8' HO/STD/EEMAG	474
4F96HSS	4L8' HO/STD/STD	514

<b>Eight Foot T12VHO Systems</b>		
1F96VES	1L8' VHO/EE/STD	200
1F96VSS	1L8' VHO/STD/STD	230
2F96VES	2L8' VHO/EE/STD	390
2F96VSS	2L8' VHO/STD/STD	450
3F96VES	3L8' VHO/EE/STD	590
3F96VSS	3L8' VHO/STD/STD	680
4F96VES	4L8' VHO/EE/STD	780
4F96VSS	4L8' VHO/STD/STD	900

<b>Eight Foot T8 Systems</b>		
1F59SSE	1L8'T8/ELIG	60
1F80SSE	1L8'T8 HO/ELIG	85
2F59SSE	2L8'T8/ELIG	109
2F59SSL	2L8'T8/ELIG LOW PWR	100
2F80SSE	2L8'T8 HO/ELIG	160
4F59SSE	4L8'T8/ELIG	218

EXISTING LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
<b>Eight Foot T12 Systems</b>		
1F96SEE	1L8' EE/ELIG	60
1F96SES	1L8' EE/STD	83
1F96SSE	1L8' STD/ELIG	70
1F96SSS	1L8' STD/STD	100
2F96SEE	2L8' EE/ELIG	109
2F96SEM	2L8' EE/EEMAG	123
2F96SES	2L8' EE/STD	138
2F96SSE	2L8' STD/ELIG	134
2F96SSM	2L8' STD/EEMAG	158
2F96SSS	2L8' STD/STD	173
3F96SES	3L8' EE/STD	221
3F96SSS	3L8' STD/STD	273
4F96SEE	4L8' EE/ELIG	218
4F96SEM	4L8' EE/EEMAG	246
4F96SES	4L8' EE/STD	276
4F96SSE	4L8' STD/ELIG	268
4F96SSM	4L8' STD/EEMAG	316
4F96SSS	4L8' STD/STD	346

Table 1C: New Construction Lighting Systems Inventory Worksheet

Building and Room Identification (Installation Site): \_\_\_\_\_

		Proposed Fixtures								
Ex.	Location	Product Code (Table 1A)	Qty	Lamp/Ballast Description	*Device Code	Proposed Watts per Fixture/Device	**Annual Operating Hours	Unit Incentive \$	Total Incentive \$	
1	Lobby-East Entrance	10	4	4' 2 lamp T8 Electronic	2F28EEL	42	3,200	\$10	\$40	
2	Under Station	1072	10	ZL10		42	2080		\$1293.12	
3										
4										
5										
6										
7										
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16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
<b>Total Requested Incentive (this page):</b>										

NOTE: An electronic version (Excel) of this sheet must be submitted for inventories exceeding this page.  
 \* The Device Code list is available at [https://www1.nationalgridus.com/files/AddedPDF/POA/RI\\_Lighting\\_Device\\_Codes\\_New\\_Const.pdf](https://www1.nationalgridus.com/files/AddedPDF/POA/RI_Lighting_Device_Codes_New_Const.pdf).  
 \*\* Facility lighting must average a minimum of 2,000 hours per year, except Municipal Facilities who must contact their Program Administrator for more information on eligibility requirements.

1-800-787-1706 / Fax: 1-315-460-9803  
 Efficiency@nationalgrid.com  
 www.nationalgridus.com/energyefficiencyservices  
 40 Sylvan Road, Waltham, MA 02451-1120

PROPOSED LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
<b>LED Lighting Fixtures</b>		
1L002	2 WATT LED	2
1L003	3 WATT LED	3
1L004	4 WATT LED	4
1L005	5 WATT LED	5
1L006	6 WATT LED	6
1L007	7 WATT LED	7
1L008	8 WATT LED	8
1L009	9 WATT LED	9
1L010	10 WATT LED	10
1L011	11 WATT LED	11
1L012	12 WATT LED	12
1L013	13 WATT LED	13
1L014	14 WATT LED	14
1L015	15 WATT LED	15
1L016	16 WATT LED	16
1L017	17 WATT LED	17
1L018	18 WATT LED	18
1L019	19 WATT LED	19
1L020	20 WATT LED	20
1L021	21 WATT LED	21
1L022	22 WATT LED	22
1L023	23 WATT LED	23
1L024	24 WATT LED	24
1L025	25 WATT LED	25
1L026	26 WATT LED	26
1L027	27 WATT LED	27
1L028	28 WATT LED	28
1L029	29 WATT LED	29
1L030	30 WATT LED	30
1L031	31 WATT LED	31
1L032	32 WATT LED	32
1L033	33 WATT LED	33
1L034	34 WATT LED	34
1L035	35 WATT LED	35
1L036	36 WATT LED	36
1L037	37 WATT LED	37
1L038	38 WATT LED	38
1L039	39 WATT LED	39
1L040	40 WATT LED	40
1L041	41 WATT LED	41
1L042	42 WATT LED	42
1L043	43 WATT LED	43
1L044	44 WATT LED	44
1L045	45 WATT LED	45
1L046	46 WATT LED	46
1L047	47 WATT LED	47
1L048	48 WATT LED	48
1L049	49 WATT LED	49
1L050	50 WATT LED	50
1L053	53 WATT LED	53
1L055	55 WATT LED	55
1L060	60 WATT LED	60
1L063	63 WATT LED	63
1L070	70 WATT LED	70
1L071	71 WATT LED	71
1L073	73 WATT LED	73

PROPOSED LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
<b>LED Lighting Fixtures (cont)</b>		
1L075	75 WATT LED	75
1L080	80 WATT LED	80
1L085	85 WATT LED	85
1L090	90 WATT LED	90
1L095	95 WATT LED	95
1L100	100 WATT LED	100
1L101	101 WATT LED	101
1L106	106 WATT LED	106
1L107	107 WATT LED	107
1L116	116 WATT LED	116
1L120	120 WATT LED	120
1L125	125 WATT LED	125
1L130	130 WATT LED	130
1L131	131 WATT LED	131
1L135	135 WATT LED	135
1L139	139 WATT LED	139
1L140	140 WATT LED	140
1L145	145 WATT LED	145
1L150	150 WATT LED	150
1L155	155 WATT LED	155
1L160	160 WATT LED	160
1L164	164 WATT LED	164
1L165	165 WATT LED	165
1L170	170 WATT LED	170
1L175	175 WATT LED	175
1L180	180 WATT LED	180
1L185	185 WATT LED	185
1L186	186 WATT LED	186
1L190	190 WATT LED	190
1L200	200 WATT LED	200
1L204	204 WATT LED	204
1L205	205 WATT LED	205
1L210	210 WATT LED	210
1L211	211 WATT LED	211
1L220	220 WATT LED	220
1L233	233 WATT LED	233
1L235	235 WATT LED	235
1L237	237 WATT LED	237
1L240	240 WATT LED	240
1L256	256 WATT LED	256
1L279	279 WATT LED	279

<b>Electronic Metal Halide Lamps</b>		
1M0150E	150W METAL HALIDE EB	160
1M0200E	200W METAL HALIDE EB	215
1M0250E	250W METAL HALIDE EB	270
1M0320E	320W METAL HALIDE EB	345
1M0350E	350W METAL HALIDE EB	375
1M0400E	400W METAL HALIDE EB	430
1M0450E	400W METAL HALIDE EB	480



## FEATURES & SPECIFICATIONS

**INTENDED USE** — Built on the compact, low-profile Z strip channel, this LED strip offers long maintenance-free life, several color temperatures, lumen outputs and lengths. Ideal for new construction and retrofit applications in T5 and T8 lengths. Ideal for uplight and downlight in commercial, retail, manufacturing, warehouse, cove and display applications. **Certain airborne contaminants can diminish integrity of acrylic.** [Click here for Acrylic Environmental Compatibility table for suitable uses.](#)

**CONSTRUCTION** — Compact-design channel and cover are formed from code-gauge cold-rolled steel. Easy to install row aligner included for continuous row mounting.

**Finish:** Paint options include high-gloss, baked white enamel (WH), galvanized (GALV), matte black (MB) and smoke gray (SKGY). Five-stage iron phosphate pre-treatment ensures superior paint adhesion and rust resistance.

**OPTICS** — Standard diffuse snap on/snap off lens eliminates pixels, improves uniformity and minimizes glare. L/LENS option available.

**ELECTRICAL** — Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Internal pluggable wiring harness prevents wiring errors. Electronic LED driver is rated for 75 input watts maximum (see Operational Data on page two for actual wattage consumption), **multi-volt input and 0-10V dimming standard.** This fixture is designed to withstand a maximum line surge of 1.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided.

LEDs provide 83 CRI at 3000 K, 3500 K, 4000 K or 5000 K.

Lumen output up to 2,000 lumens per foot. In 86°F (30°C) ambient environments, L70 is predicted to be 100,000+ hours, L85 at 65,000 hours. Luminaire should be installed in applications where ambient temperatures do not exceed 86°F (30°C). Ambient temperatures that exceed 86°F (30°C) will result in reduced life and will void warranty.

**INSTALLATION** — Tool-less channel cover for easy installation.

Fixture may be surface mounted (with or without ZSPRG hanger), pendant or stem mounted with appropriate mounting options. Three-point aligner locks in place for easy continuous row mounting.

**LISTINGS** — UL Listed. CSA certified to US and Canadian safety standards. For use in damp locations between -4°F (-20°C) and 86°F (30°C).

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org](http://www.designlights.org) to confirm which versions are qualified.

**WARRANTY** — 5-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

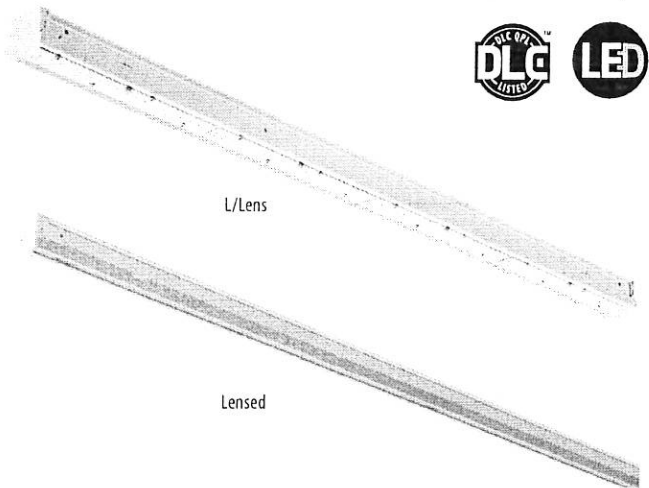
Catalog Number
Notes
Type



LED Striplight

# ZL1N

24", 48" and 96" Lengths



### ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: ZL1N L48 3000LM FST MVOLT 40K 80CRI WH

Series	Length	Nominal lumens <sup>1</sup>	Diffuser	Voltage	Color temperature	Color rendering index	Options	Paint finish
ZL1N LED striplight	L24 24"	1500LM 1,500 lumens	FST Snap on frosted, diffuse	MVOLT 120-277V HVOLT 347-480V <sup>2</sup>	40K 4000 K	80CRI 80 CRI	PLR Plug-in wiring <sup>3</sup> PLR1LVG Plug-in wiring-low voltage <sup>4</sup>	WH White
		2500LM 2,500 lumens	L/LENS No diffuser		30K 3000 K	90CRI 90 CRI		GALV Galvanized
	L46 46"	3000LM 3,000 lumens		35K 3500 K		MB Matte black		
	L48 48"	5000LM 5,000 lumens 7000LM 7,000 lumens		50K 5000 K		SKGY Smoke gray		
TZL1N LED striplight	L92 92"	6000LM 6,000 lumens						
	L96 96"	10000LM 10,000 lumens 14000LM 14,000 lumens						

Accessories: Order as separate catalog number.

HC36	Hanger chain, 36"	ZSPRG	For 15/16" T-grid only
ZACVH	Aircraft cable 10' (one pair)	WGZ24	24" wireguard, white
LSXR	Sensor Switch® LSXR occupancy sensor <sup>2</sup>	WGZ48	48" wireguard, white <sup>5</sup>

### EMERGENCY OPTIONS

(Order as separate catalog number.)<sup>4</sup>

Consider EAC ISSM 125 or EAC ISSM 375

### Notes

- See Operational Data on page 2 for actual lumens.
- Not available with L24, 24" fixture.
- See ordering information on page 3.
- Must use ZSPRG for surface mounting when ordering this option.
- Order 2 for tandem double length fixtures (TZL1N).
- See ordering information on page 4.

# ZL1N LED Striplight

OPERATIONAL DATA								
	Nominal lumen package	Length (Inches)	Delivered lumens 3000 K CCT @ 77°F (25°C) ambient temperature	Delivered lumens 3500 K CCT @ 77°F (25°C) ambient temperature	Delivered lumens 4000 K CCT @ 77°F (25°C) ambient temperature	Delivered lumens 5000 K CCT @ 77°F (25°C) ambient temperature	Wattage @ 120V/277V	Comparable light source
Lensed	3,000LM	24	2,805	2,921	3,177	3,400	34W/32W	1-lamp 32W T8, 1-lamp 54W T5HO, 50W HID
	3,000LM	46 or 48	2,532	2,636	2,834	3,068	32W/31W	1-lamp 32W T8, 1-lamp 54W T5HO, 50W HID
	5,000LM	46 or 48	3,923	4,085	4,391	4,754	42W/41W	2-lamp 32W T8, 1-lamp 54W T5HO, 70W HID
	7,000LM	46 or 48	5,914	6,158	6,619	7,231	72W/70W	3-lamp 32W T8, 2-lamp 54W T5HO, 100W HID
	6,000LM	92 to 96	5,064	5,273	5,668	6,136	64W/62W	3-lamp 32W T8, 2-lamp 54W T5HO, 100W HID
	10,000LM	92 to 96	7,846	8,170	8,782	9,508	84W/82W	4-lamp 32W T8, 2-lamp 54W T5HO, 100W HID
	14,000LM	92 to 96	11,828	12,316	13,239	14,462	144W/140W	4-lamp 32W T8, 3-lamp 54W T5HO, 150W HID
Unlensed	3,000LM	24	3,165	3,295	3,582	3,835	34W/32W	1-lamp 32W T8, 1-lamp 54W T5HO, 50W HID
	3,000LM	46 or 48	2,865	2,983	3,207	3,472	32W/31W	1-lamp 32W T8, 1-lamp 54W T5HO, 50W HID
	5,000LM	46 or 48	4,439	4,622	4,968	5,379	42W/41W	2-lamp 32W T8, 1-lamp 54W T5HO, 70W HID
	7,000LM	46 or 48	6,737	7,015	7,541	8,164	72W/70W	3-lamp 32W T8, 2-lamp 54W T5HO, 100W HID
	6,000LM	92 to 96	5,730	5,966	6,413	6,944	64W/62W	3-lamp 32W T8, 2-lamp 54W T5HO, 100W HID
	10,000LM	92 to 96	8,878	9,244	9,937	10,759	84W/82W	4-lamp 32W T8, 2-lamp 54W T5HO, 100W HID
	14,000LM	92 to 96	13,474	14,031	15,082	16,329	144W/140W	4-lamp 32W T8, 3-lamp 54W T5HO, 150W HID

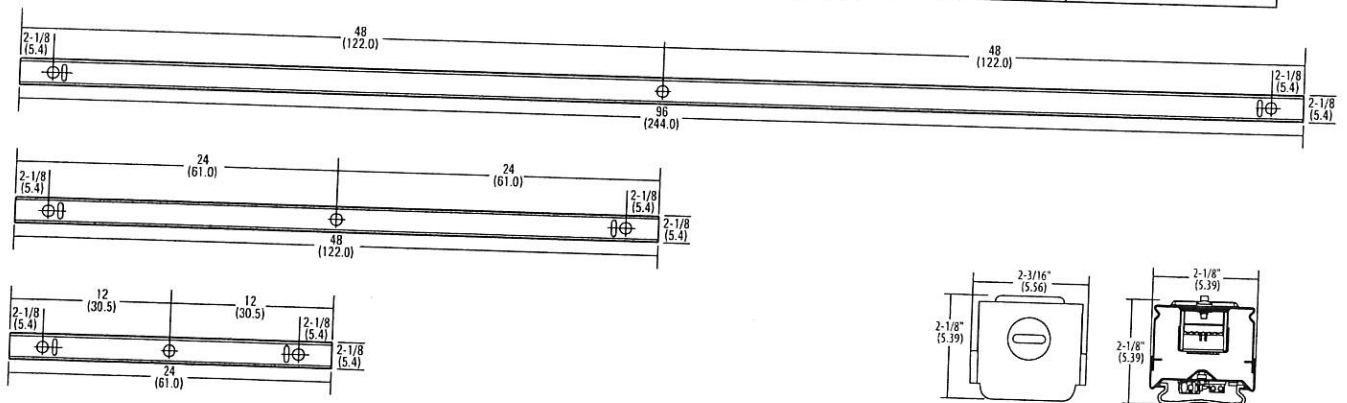
PROJECTED LUMEN MAINTENANCE								
Operating hours	0	10,000	20,000	30,000	40,000	50,000	60,000	100,000
Lumen maintenance factor	1	0.9678	0.9454	0.9235	0.9021	0.8812	0.8605	0.7839

Based on incomplete LM-80 data. Update expected Q1 2014.

## DIMENSIONS

All dimensions are shown in inches (centimeters) unless otherwise noted. Specifications subject to change without notice.

PALLET DIMENSIONS			
Length	Approximate weight	Fixtures per pallet	Approximate pallet dimensions (L x W x H)
L24	6 lbs	408	46" x 46" x 32-11/18"
L46	8 lbs	178	46" x 46" x 31-1/3"
L48	8 lbs	178	46" x 46" x 31-1/3"
L92	16 lbs	176	98-1/2" x 46" x 31-1/16"
L96	16 lbs	176	98-1/2" x 46" x 31-1/16"



## PHOTOMETRICS

Please see [www.lithonia.com](http://www.lithonia.com).



# ZL1N LED Striplight

## PRODUCT INFORMATION

Wiring

Advanced plug-in system with three-circuit capability. Available on industrial and strip products and a variety of architectural products mounted in continuous rows. 1, 2, 3 and 4-lamp fixtures. PLR22 (2-circuit) and PLR33 (3-circuit) crossover harness switches hot circuit serving next fixture in row. Reduces fixture types on job for alternating circuit applications (see example below.)

Easy one-step installation, saves up to 35% on labor costs. Expanded switching flexibility helps save energy.

Rows can be 50% longer with two-circuit systems. Polarized, lock-together nylon connectors prevent miswiring in the field. #12 THHN conductor, rated 600V, 90°C. White neutral wire included. Grounding accomplished by fixture in-row connectors.

CSA certified systems available with up to 2 circuits. G ground required.

Note: Specifications subject to change without notice.

# PLR

Advanced 3-Circuit Plug-In

### ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Series	Number of hot wires		Branch circuits			Dimming		Ground			
PLR	(blank)	Not required for 22 or 33	Circuits to which ballast is connected			B	Red wire	LV	Low-voltage dimming	(blank)	No ground in PLR
PLR22	1	Black	(blank)	Not required for 22 or 33	C	Blue wire			G	Ground. Maximum 2 circuits	
PLR33	2	Black and red	A	Black wire							
	3	Black, red and blue									

### Typical Applications

- Multiple-circuit and single-circuit for longer continuous rows
- Multiple-circuit with alternating fixtures on separate circuits, 2-circuit (PLR 22) and 3-circuit (PLR 33)
- Multiple circuit with night-lights located along row as desired

TYPICAL APPLICATIONS										
PLR 3 C (All PLR22)	PLR 3 C	PLR 3 C	PLR 3 C	PLR 2 B	PLR 2 B	PLR 2 B	PLR 2 B	PLR 1	PLR 1	PLR 1
Circuit A	Circuit B	Circuit A	Circuit B	Circuit A	Circuit B	Circuit A	Circuit B	Circuit A	Circuit B	Circuit A
(All PLR33)										
Circuit A	Circuit B	Circuit C	Circuit A	Circuit B	Circuit C	Circuit A	Circuit B	Circuit C	Circuit A	Circuit B
PLR 3 A	PLR 3 A	PLR 3 A	PLR 3 C	PLR 3 B	PLR 3 B	PLR 3 B	PLR 3 C	PLR 3 A	PLR 3 A	PLR 3 A

## PRODUCT INFORMATION

Passive Infrared Indoor Occupancy Sensor

A standard occupancy time delay is also present to ensure lights turn off (once minimum on timer has also elapsed) if no occupancy is detected.

This timer is factory set at 10 minutes to promote energy savings, but is adjustable between 30 seconds and 30 minutes. These adjustments may be done through the unit's push-button.

### FEATURES

- Four interchangeable lenses - high mount 360°, low mount 360°, high mount aisleway, and small motion 360°.
- Integrated mounting bracket drops lens down 3" from chase nipple - no bracket accessory required.
- 100% digital PIR detection - provides excellent RF immunity

Note: Specifications subject to change without notice.

# LSXR

Single Relay

sensorswitch

### ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: LSXR 10 ADC HVOLT 30M

Series		Lens option				Dimming/photocell	
LSXR	Passive Infrared Indoor Occupancy Sensor	(blank)	No lens	610	High and low mount 360°	(blank)	None
		6	High mount, 360°	650	High mount 360° and aisleway	HL	High/low occupancy operation
		10	Low mount, 360°	3PK	High and low mount 360° and aisleway	P	Switching photocell (on/off)
		50	High mount aisleway	4PK	All lenses	ADC	Dimming and switching photocell
		9	Small motion, 360°			ANL	Dimming and switching photocell with high/low occupancy operation

Voltage	Max dim level	Min dim level	Lead length	Temp humidity	Default time delay
(blank) 120-277 VAC (MVOLT)	(blank) 10 VDC	(blank) Minimum dimming level of ballast	(blank) 14"	(blank) None	(blank) 10 minutes (with minimum 15 minutes on time)
HVOLT 347-480 VAC	9H 9 VDC	1V 1 VDC	42L 42"	LT Low temperature	5M 5 minutes (LED only)
	8H 8 VDC	2V 2 VDC			15M 15 minutes
	7H 7 VDC	3V 3 VDC			20M 20 minutes
		4V 4 VDC			30M 30 minutes
		5V 5 VDC			
	6V 6 VDC				

For additional information see [www.lithonia.com](http://www.lithonia.com)

# ZL1N LED Striplight

For emergency options, consider EAC ISSM 125 or EAC ISSM 375. (Order as separate catalog number.)

Power Systems

## FEATURES & SPECIFICATIONS

**INTENDED USE** — Automatic standby AC power system for LED, incandescent and fluorescent emergency lighting systems, including fixtures with line dimmable fluorescent ballast.

**CONSTRUCTION** — NEMA Type 1 cabinet 16-gauge steel housing.

Status indicator: Three LED indicators display utility present, charger and inverter running.

Cooling: 375W model features forced air during emergency mode.

**ELECTRICAL** — Dual input and output, 120V or 277V.

Units rated for 125W or 375W provide emergency lighting power for 90 minutes of operation.

Battery: 12V Valve-regulated Lead Acid (VRLA) battery.

**INSTALLATION** — Line voltage allows for remote mounting of up to 1000 feet.

125W: Available with surface or recess ceiling mounting.

375W: Surface mounting only.

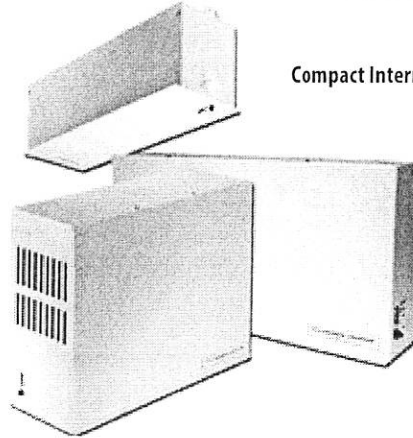
**LISTINGS** — UL Listed. Meets UL924, NFPA 101 (current life safety code), NEC, OSHA.

**WARRANTY** — 3-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

Note: Specifications subject to change without notice.

# EAC ISSM

Compact Interruptible AC Power System



### ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: EAC ISSM 375 120/277 SM

EAC		ISSM		120/277			
Series		System		VA rating	Voltage	Mounting	
EAC	Emergency AC power system	ISSM	Interruptible	125 375 <sup>1</sup>	120/277	Dual input and output 120V or 277V	
						SM	Surface
						RGM	Recess grid ceiling

For additional information see [www.lithonia.com](http://www.lithonia.com)

#### Notes

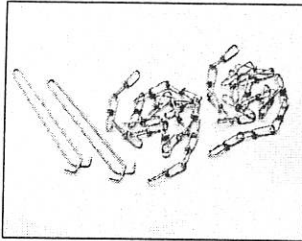
1 Available surface mount only.

## ZL1N LED Striplight

---

### OPTIONS AND ACCESSORIES

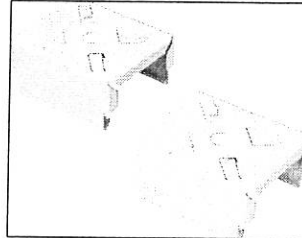
The Z Series fixture offers numerous options for almost every electrical and optical component, including a long list of field-installable accessories.



#### HANGER CHAIN

36" chain with Y hanger.

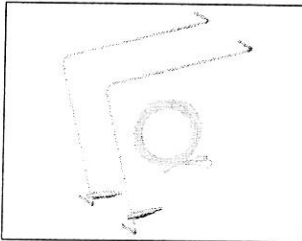
Order as:  
HC36



#### Z SPRING HANGER

Snap 'n' lock design requires no fasteners and can be used on T-grid ceiling or universal mounting systems.

Order as:  
ZSPRG



#### ZACVH HANGER

10' Aircraft cable with Y hanger.

Order as:  
ZACVH

## Accounts Payable Batch Update

tch: DSM REBATE - 2015 DSM Rebates One-Time

Vendor Invoice PO/Customer	Dispute Inv Type 1099	Vendor Name	Div Account	Description	Dept	Actv Distribution Reference	Invoice Reference	Amount	Pmt Type Cr Card	Inv Date GL Date
1 46	No	PASCOAG UTILITY DISTRICT - ELECTRIC	1 0254.02	Demand Side Management	0 0	Water Station LED Lighting Project	Water Station LED Lighting Project	1,293.12	Check	04/13/15
			WO: D11503	Chg Code: 99		Water Station LED Lighting Project	Amt: 1,293.12	1,293.12		04/13/15
								<u>1,293.12</u>		

# Accounts Payable Batch Update

## Vendor Summary

Vendor	Vendor Name	Invoices	Misc Credits	Total Due
46	PASCOAG UTILITY DISTRICT - ELECTRIC	1,293.12	0.00	1,293.12
		\$ 1,293.12	\$ 0.00	\$ 1,293.12

Accounts Payable  
Batch Update

Vendor Summary By Period

Vendor	Vendor Name	Invoices	Misc Credits	Total Due
iod: Apr 2015 46	PASCOAG UTILITY DISTRICT - ELECTRIC	1,293.12	0.00	1,293.12
	Total For Apr 2015:	1,293.12	0.00	1,293.12
	Grand Total:	\$ 1,293.12	\$ 0.00	\$ 1,293.12

Accounts Payable  
Batch Update

Material Inventory Summary

n	Description	Group	UOM	Material Summary By Item		
				Received Quantity	Amount	On-Hand Unit Cost Amount

Invoices:	1,293.12
Misc Credits:	0.00
Sales Tax:	0.00
Addl Chgs:	0.00
Total Due:	1,293.12
Use Tax:	0.00
Total Invoices:	1
Total Misc Credits:	0
Total Transactions:	1
Journal:	0

## Accounts Payable General Ledger Accounting Summary

Journal : 0

Description : Invoice

Created By : pscghjr

Post As : Approved

Line	Div	Account	Description	Dept	Actv	Reference	Date	Debit	Credit
1	1	0232.0	Accounts Payable	0	0	Water Station LED Lighting Project	04/13/2015		
2	1	0254.02	Demand Side Management	0	0	Water Station LED Lighting Project	04/13/2015	1,293.12	1,293.12
<b>Total For Journal 0:</b>								\$ 1,293.12	\$ 1,293.12



## Accounts Payable General Ledger Accounting Summary

Summary By Acct/Dept

Div	Account	Description	Dept	Amount
1	0232.0	Accounts Payable	0	-1,293.12
<b>Total For 1 0232.0:</b>				
			0	-1,293.12
1	0254.02	Demand Side Management	0	1,293.12
<b>Total For 1 0254.02:</b>				
			0	1,293.12

Total Number Of Transactions: 2  
 Total Number Of Debits: 1  
 Total Number Of Credits: 1

\* No Errors Detected, Ready for Update \*\*\*

# Lighting Systems & Sensors Application

## 2015 Retrofit

ALL FIELDS ON THIS PAGE ARE REQUIRED TO COMPLETE YOUR APPLICATION.

### CUSTOMER/ACCOUNT HOLDER INFORMATION

COMPANY NAME: City of Burlington  
 INSTALL SITE: Municipal Parking Lot  
 EMAIL ADDRESS: \_\_\_\_\_  
 CITY: \_\_\_\_\_ STATE: \_\_\_\_\_  
 STREET ADDRESS: \_\_\_\_\_ CITY: \_\_\_\_\_ STATE: \_\_\_\_\_  
 MAILING ADDRESS (IF DIFFERENT): \_\_\_\_\_ CITY: \_\_\_\_\_ STATE: \_\_\_\_\_  
 ELECTRIC COMPANY NAME: \_\_\_\_\_  
 ELECTRIC ACCOUNT NUMBER (OR COPY OF ELECTRIC BILL): \_\_\_\_\_  
 GAS COMPANY NAME: \_\_\_\_\_  
 GAS ACCOUNT NUMBER (OR COPY OF GAS BILL): \_\_\_\_\_  
 SQUARE FEET (COVERED BY THIS APPLICATION): \_\_\_\_\_  
 CONTACT PERSON: \_\_\_\_\_ PHONE: \_\_\_\_\_ FAX NUMBER: \_\_\_\_\_  
 APPLICATION DATE: 6/16/15

BUILDING TYPE (PLEASE PLACE "X" IN APPROPRIATE BALLOT BOX)  
 ASSEMBLY  FAST FOOD  HOTEL  MULTI STORY RETAIL  RELIGIOUS  SMALL RETAIL  
 AUTOMOTIVE  FULL SERVICE RESTAURANT  LARGE REFRIGERATED SPACE  MULTIFAMILY HIGH-RISE  UNIVERSITY  
 BIG BOX  GROCERY  LARGE OFFICE  MULTIFAMILY LOW-RISE  SMALL OFFICE  WAREHOUSE  
 COMMUNITY COLLEGE  HEAVY INDUSTRIAL  LIGHT INDUSTRIAL  OTHER: \_\_\_\_\_  
 DORMITORY  HOSPITAL  MOTEL

### PAYMENT METHOD (PAYEE MUST SUBMIT A W-9 FORM)

PAYMENT TO:  CUSTOMER  VENDOR/INSTALLER  
 CHECK PAYABLE TO: \_\_\_\_\_  
 CUSTOMER COMPANY TYPE:  INC.  NOT INCORP.  EXEMPT  
 VENDOR COMPANY TYPE:  INC.  NOT INCORP.  EXEMPT  
 VENDOR/INSTALLER - TAX ID# (REQUIRED IF RECEIVING INCENTIVE): \_\_\_\_\_  
 CUSTOMER - TAX ID# (REQUIRED): \_\_\_\_\_

### VENDOR INFORMATION

AUTHORIZED VENDOR/INSTALLER: \_\_\_\_\_  
 CONTACT NAME: \_\_\_\_\_  
 STREET ADDRESS: \_\_\_\_\_ CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_  
 EMAIL ADDRESS: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 AUTHORIZED VENDOR/INSTALLER SIGNATURE (NOT APPLICABLE IF CUSTOMER IS PAYEE): \_\_\_\_\_

### CUSTOMER ACCEPTANCE OF TERMS

PRE-INSTALLATION:  I CERTIFY THAT ALL STATEMENTS MADE IN THIS APPLICATION ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT I HAVE READ AND AGREE TO THE TERMS AND CONDITIONS ON THE BACK OF THIS FORM.  
 POST-INSTALLATION:  I CERTIFY THAT I HAVE SEEN THE ENERGY EFFICIENCY MEASURES THAT HAVE BEEN INSTALLED AND I AM SATISFIED WITH THEIR INSTALLATION.  
 DATE: 6/16/15  
 PRINT NAME: \_\_\_\_\_  
 AUTHORIZED SIGNATURE: Thomas Rowland

Apply \$104.39 to MR# 3  
\$95.61 - Return to town

**Table 1C: Retrofit Lighting Systems Inventory Worksheet**

Building and Room Identification (Installation Site): \_\_\_\_\_

Ex.	Location	Existing Fixtures (Retrofit only)					Proposed Fixtures					Unit Incentive \$	Total Incentive \$
		Qty	Lamp/Ballast Description	Device Code	Existing Watts per Fixture/Device	Product Code (Table 1A)	Qty	Lamp/Ballast Description	Device Code	Proposed Watts per Fixture/Device	**Annual Operating Hours		
1	Municipal Parking Lot	4	4:3 lamp T12 Magnetic	3F40SEM	110 watts	12	4	4:2 lamp 28 watt RW 78 w/ LP Electronic Ballast	2F28EEL	42 watts	3,200 hours	\$15	\$60
2		1	175w metal halide		205		1	LED Retrofit Kit		42w	4323hrs		\$200
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

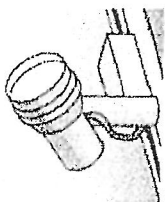



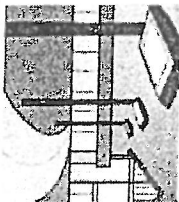


Total Requested Incentive (this page): **\$200**

NOTE: An electronic version (Excel) of this sheet must be submitted for inventories exceeding this page.

\* The Device Code list is available at <https://www1.nationalgridus.com/files/AddedPDF/POA/RILightingRetrofit1.pdf>.

\*\* Facility lighting must average a minimum of 2,000 hours per year, except Municipal Facilities who must contact their Program Administrator for more information on eligibility requirements.

Table 1A: Lighting Systems Eligibility and Incentives

Measure Code	Measure Description	Per Fixture Incentive	Eligibility Criteria	Min Watts Saved	Image
84	LED Track Heads – Hardwired less than or equal to 25 watts	\$50	LED track heads fixtures hardwired installations only; replacement lamps not eligible. Eligible fixtures are required to be less than or equal to 25 watts and listed by Design Lights Consortium (for more information see <a href="http://www.designlights.org">www.designlights.org</a> ).	30	
85	LED Exterior Wall Mount Fixtures to be installed in minimum of 4,380 hour	\$75	Eligible LED Exterior Wall Mount fixtures are required to be installed in minimum of 4,380 hour applications (dusk to dawn) and be listed by Design Lights Consortium (for more information see <a href="http://www.designlights.org">www.designlights.org</a> ).	100	
86A	LED Interior High Bay/Low Bay Fixtures	\$180	Eligible LED Interior High Bay/Low Bay fixtures recommended mounting height > 16 feet above the floor with minimum of 4,380 hour applications and are required to be listed by Design Lights Consortium (for more information see <a href="http://www.designlights.org">www.designlights.org</a> ).	95	
86B	LED Interior High Bay/Low Bay Fixture Note: All Retrofit Kits Eligible	\$100	Eligible fixtures and Retrofit Kits for LED Interior High Bay/Low Bay applications with mounting height > 16 feet above the floor are required to be listed by Design Lights Consortium (for more information see <a href="http://www.designlights.org">www.designlights.org</a> ).	95	
87	LED Pole Mounted Parking, Roadway, or Decorative Fixtures	\$200	Eligible LED Pole Mounted Parking, Roadway, or Decorative fixtures are required to be installed in minimum of 4,380 hour applications (dusk to dawn) and be listed by Design Lights Consortium (for more information see <a href="http://www.designlights.org">www.designlights.org</a> ).	100	
88A	LED Interior 1x4, 2x2 and 2x4 Panel Fixtures	\$60	Eligible LED Interior fixtures are required to be listed by Design Lights Consortium (for more information see <a href="http://www.designlights.org">www.designlights.org</a> ).	38	
88B	LED Interior 2x2 and 2x4 Panel Fixtures Retrofit Kits	\$40	Eligible LED Interior Retrofit Kits 2x2, 1x4 and 2x4 panel fixtures are required to be listed by Design Lights Consortium (for more information see <a href="http://www.designlights.org">www.designlights.org</a> ).	38	

\* Note: 4ft straight tube and U-bent T-8 lamps and ballasts must meet the Consortium for Energy Efficiency's High Performance / Reduced Wattage (HP/RW) T-8 specifications. For eligibility requirements and a list of eligible lamps and ballasts, log onto CEE's web site at [www.cee1.org](http://www.cee1.org).

Note: 2ft and 3ft, T-8 and T-5 lamps must have a minimum efficacy of 75 mean lumens per watt, a CRI greater than 90 and an average rated life of 24,000 hours at 3 hours per start. 2ft, 3ft and 4ft, 30 watt U-bent T-8 ballasts must meet the CEE's High Performance T-8 Ballast Specifications. 2ft – reduced wattage ballast lamps must have a minimum efficacy of 94 mean lumens per watt, a CRI greater than 90 and an average rated life of 20,000 hours at 3 hours per start. Ballasts must meet the CEE's High Performance T-8 Ballast Specifications.



## Accounts Payable Batch Update

atch: DSM REBATE - 2015 DSM Rebates		One-Time		Invoice Reference		Invoice Reference		Pmt Type Inv Date	
Line	Vendor	Dispute	Vendor Name	Dept	Actv	Distribution	Reference	Cr Card	GL Date
Type	Invoice	Inv Type	Account					Chg Date	Due Date
ash	PO/Custom	1099	Description						
1	216		BURRILLVILLE, TOWN OF			Bal of Rebate for LED SL in Municipal Pk		Check	06/17/15
N	LED REBATE	No	0254.02	0	0	Bal of Rebate for LED SL in Municipal Pk	Amt: 95.61		06/17/15
			WO: D11502						06/17/15
									95.61
2	46		PASCOAG UTILITY DISTRICT - ELECTRIC			1 Retrofit Kit Rebate to satisfy MR#3		Check	06/17/15
N	APPY TO MR#3 INV 5	No	0254.02	0	0	1 Retrofit Kit Rebate to satisfy MR#3	Amt: 104.39		06/17/15
			WO: D11502						06/17/15
									104.39
3	728		CHALKIADAKIS, NIKOLAOS			LED lighting Rebate for the Office Space		Check	06/17/15
N	11399002	No	0254.02	0	0	20- LED Fixtures	Amt: 1,797.60		06/17/15
			WO: D11503						06/17/15
									1,797.60

Accounts Payable  
Batch Update

Vendor Summary

Vendor	Vendor Name	Invoices	Misc Credits	Total Due
46	PASCOAG UTILITY DISTRICT - ELECTRIC	104.39	0.00	104.39
216	BURRILLEVILLE, TOWN OF	95.61	0.00	95.61
728	CHALKIADAKIS, NIKOLAOS	1,797.60	0.00	1,797.60
		\$ 1,997.60	\$ 0.00	\$ 1,997.60

Accounts Payable  
Batch Update

Vendor Summary By Period

Vendor	Vendor Name	Invoices	Misc Credits	Total Due
Period: Jun 2015				
46	PASCOAG UTILITY DISTRICT - ELECTRIC	104.39	0.00	104.39
216	BURRILLVILLE, TOWN OF	95.61	0.00	95.61
728	CHALKIADAKIS, NIKOLAOS	1,797.60	0.00	1,797.60
	Total For Jun 2015:	1,997.60	0.00	1,997.60
	Grand Total:	\$ 1,997.60	\$ 0.00	\$ 1,997.60



# Accounts Payable Batch Update

## Material Inventory Summary

### Material Summary By Item

Item	Description	Group	UOM	Received Quantity	Amount	Quantity	On-Hand Unit Cost	Amount
	Invoices:				1,997.60			
	Misc Credits:				0.00			
	Sales Tax:				0.00			
	Addl Chgs:				0.00			
	Total Due:				1,997.60			
	Use Tax:				0.00			
	Total Invoices:				3			
	Total Misc Credits:				0			
	Total Transactions:				3			
	Journal:				0			

06/17/2015 10:33:36 am

Page: 1

## Accounts Payable General Ledger Accounting Summary

Journal : 0  
 Description : Invoice  
 Created By : pscgljr  
 Post As : Approved

Line	Div	Account	Description	Dept	Actv	Reference	Date	Debit	Credit
1	1	0232.0	Accounts Payable	0	0	Bal of Rebate for LED SL in Municipal Pk	06/17/2015		95.61
2	1	0232.0	Accounts Payable	0	0	1 Retrofit Kit Rebate to satisfy MR#3	06/17/2015		104.39
3	1	0232.0	Accounts Payable	0	0	LED lighting Rebate for the Office Space	06/17/2015		1,797.60
4	1	0254.02	Demand Side Management	0	0	Bal of Rebate for LED SL in Municipal Pk	06/17/2015	95.61	
5	1	0254.02	Demand Side Management	0	0	1 Retrofit Kit Rebate to satisfy MR#3	06/17/2015	104.39	
6	1	0254.02	Demand Side Management	0	0	20- LED Fixtures	06/17/2015	1,797.60	
<b>Total For Journal 0:</b>								<b>\$ 1,997.60</b>	<b>\$ 1,997.60</b>

06/17/2015 10:33:36 am

Page: 2

# Accounts Payable General Ledger Accounting Summary

Summary By Acct/Dept

Div	Account	Description	Dept	Amount
1	0232.0	Accounts Payable	0	-1,997.60
Total For 1 0232.0:				-1,997.60
1	0254.02	Demand Side Management	0	1,997.60
Total For 1 0254.02:				1,997.60

Total Number Of Transactions: 6  
 Total Number Of Debits: 3  
 Total Number Of Credits: 3

\*\*\* No Errors Detected, Ready for Update \*\*\*

Harle Round

From: Harle Round  
Sent: Monday, August 31, 2015 10:02 AM  
To: 'Michael Wood'  
Cc: Michael Kirkwood; bguertin@pud-ri.org  
Subject: RE: Led Street Lights

Hi Mike,  
This would be the savings:

QTY	SL Type	Current Rate Per fixture	Rate you would pay with and LED fixture	Savings per month per fixture	Annual Savings	Annual KWH Saved
4	50 Watt HPS	\$4.58	\$2.87	\$1.71	\$82.08	726 KWH
10*	150 Watt HPS	\$8.13	Undetermined	undetermined	undetermined	5,231 KWH
4	250 Watt HPS Floods	\$10.96	\$8.13	\$2.83	\$135.84	2,818.6 KWH
2	400 Watt HPS Floods	\$15.74	\$12.73	\$3.01	\$72.24	1945 KWH
13	175 Watt Metal Halide	* metered	\$108.50	\$1302.00	9160 KWH	
Total					\$1,592.16	19,880.60 kwh

\*There are 14- 150 Watt HPS decorative street lights but the 4 in Tinkham Lane cannot be retrofitted at this time.

From: Michael Wood [mailto:mcwood@Burrillville.org]  
Sent: Monday, August 31, 2015 8:43 AM  
To: Harle Round; Maggie Pienkos  
Cc: Michael Kirkwood; Bill Guertin  
Subject: RE: Led Street Lights

Good morning Harle, just curious, what type of energy (\$\$\$\$) savings should we expect by installing LED's? Mike

Michael C. Wood  
Town Manager  
Town of Burrillville

[www.visitburrillville.org](http://www.visitburrillville.org)

401-568-4300 X115

**From:** Harlie Round [mailto:hround@pud-ri.org]  
**Sent:** Friday, August 28, 2015 9:57 AM  
**To:** Michael Wood; Maggie Pienkos  
**Cc:** Michael Kirkwood; Bill Guertin  
**Subject:** Led Street Lights

Hi Mike and Maggie,

I have attached a breakdown the street lights that Mike Wood would like to have changed to LED's. I have also provided you with a breakdown of the cost to convert the street lights. If we order your lights at the same time as our grant project you can get the prices that I used on the worksheet. If you wait then the prices may increase.

For the Town of Burrillville the Total cost including the Lights in Tinkham Lane Meter off of the Jesse Smith Library would be:

Total Cost: \$18,520.90  
\*DSM Rebate: \$ 8,560.40  
Cost to Town \$ 9,960.50

For the Board Of Administration:

Total Cost: \$14,743.80  
\*DSM Rebate: \$ 7,371.90  
Total to BOA \$ 7,371.90

\*DSM Rebates would come out of the allotted money for the Town of Burrillville in the 2015 budget.

Please look it over and call me if you have questions or if you would like to proceed.

Best Regards,

*Harlie Round*

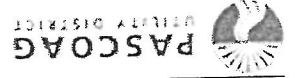
DSM Coordinator/Customer Service Supervisor

253 Pascoag Main St.

Pascoag RI 02859

401-568-6222 x216

hround@pud-ri.org



Harle Round

To: Maggie Pienkos  
Cc: Michael Kirkwood; bguertin@pud-ri.org  
Subject: RE: LED light replacement

Hi Maggie,

Your are currently being billed for the following Street Lights:

Qty	SL Type	Current Rate per Fixture Per month	Rate you would pay for LED SL	Saving per fixture	Annual Saving
8	50W HPS SL	\$4.58 Each	\$2.87 Each	\$1.71 per fixture	\$164.16
8	250 HPS Flood Lights	\$10.96 Each	\$8.13 Each	\$2.83 Per fixture	\$271.68
5	400 HPS Flood Light	\$15.74 Each	\$12.73 Each	\$3.01 per fixture	\$180.06
1	175 W Mercury SL	\$8.47 Each	\$3.71 Each	\$4.76 per fixture	\$57.12

The Total Annual savings if you convert the street lights would be \$673.02 and with the cost to you of \$7,371.90 the simple payback is 11 years. The Street lights all have a life of 20+ Years.

*Harle Round*

DSL Coordinator/Customer Service Supervisor

253 Pascoag Main St.

Pascoag RI 02859

401-568-6222 x216

hround@pud-ri.org



Harle

From: Maggie Pienkos [mailto:mpienkos@Burrillville.org]

Sent: Friday, August 28, 2015 11:13 AM

To: Harle Round

Subject: LED light replacement

Hi Harle,

More questions! I've attached a copy of the last bills for the street lights. There is no rate or billed use on any of them. Is a rental fee, or will this amount actually be reduced if we replace with LED's.

Thanks for your patience!

Maggie

Maggie Pienkos

# Town Hall Lights

Account Number	Location	50 Hps	70 HPS	100 HPS	150 HPS	250 HPS	400 HPS	175 W Mercury	Pole Location
10415001	Beckwith Lodge	1	1			2			Pole 1 Log Rd Pole 3 Log Rd On Pole
11204007	Downtown Pascoag- post office				7				Pole 1 off of Robert St Pole 2 Union Ave
11204011	Parks and Rec								no street lights
10410002	DPW					1	1		pole 2 off of Robert St pole 2 Union Ave
11204006	Zambi Dam					1			
10414001	White Mill Park	2							
11204014	Farmer's Market			4					Farmer's Market- Decorative
11204012	Veterans Park in Pascoag	4	0	0	14	4	2	0	Decoratives in the Park at the Brideway
* 13- 175 Watt Metal Halid Decorative Street Lights are metered off of the Jesse Smith Library									
<b>Board of Administration</b>									
Account Number	Location	50 Hps	70 HPS	100 HPS	150 HPS	250 HPS	400 HPS	175 W Mercury	Pole Location
10364002	Town Hall	3				1		1	? Where these are pole 506 Chapel Street pole 2 off of 506 Chapel Street pole 10 Harrisville Main St
10364004	Assembly &	4				2			Assembly driveway
10364004	Carlton Brown Building								We can not do anything with the light in front comes from the building
10364006	Annex Parking Lot- E Parking						2		Pole 497 Chapel St /one pointing to Assembly
10364001	Freedom Park						2		
<b>Board of Admissions Total</b>		8	0	0	0	8	5	1	22
<b>Town Hall Total</b>		4	0	0	14	4	2	0	24
		12	0	0	14	12	7	1	46

†† 175 Watt Hps are decorative († from the Farmers Market cannot be refronted at this time. †)