

Princeton Joint Unified School District
Invitation for Bid
Installation of District-Wide Lighting Occupancy Sensors

1. SUMMARY AND BACKGROUND:

Princeton Joint Unified School District located in Princeton California is currently accepting proposals to install occupancy sensors, dimmers and smart control systems to control lighting in classrooms, offices, restrooms and exterior locations at both of our school sites (Princeton Jr/Sr High School and Princeton Elementary School). This installation is an approved Proposition 39 measure and will be subject to the Proposition 39 Energy Expenditure budget guidelines. This project is a Public Works project and is subject to the Department of Industrial Relations guidelines.

2. PROPOSAL GUIDELINES:

This invitation for bid represents the requirements for an open and competitive process. Proposals will be accepted until January 10th, 2018, 4:00PM (local time). Any proposals received after this date and time will be returned to the sender. All proposals must be signed by an official agent or representative of the company submitting the proposal.

All costs must be itemized to include an explanation of all fees and costs.

Contract terms and conditions will be negotiated upon selection of the winning bidder for this invitation for bid. All contractual terms and conditions will be subject to review by Princeton Joint Unified School District Board of Trustees, and will include scope, budget, schedule, and other necessary items pertaining to the project.

All work shall be done during non-student attendance hours.

Optimum installation dates are as follows: February 17th to 25th, 2018 **OR** March 30th to April 8th, 2018, when students will not be on campus. Should there be a need to finish the project when students are on campus, the contractor and any crew members will need to pass a DOJ fingerprint scan and background check, at contractor's cost, before work can resume.

3. PROJECT PURPOSE AND DESCRIPTION:

The purpose of this project is to install lighting occupancy sensors, smart control systems and dimmers as an energy savings measure approved and funded by Proposition 39. The installation will be as follows:

At Princeton Elementary:

27 Lighting Occupancy Sensors and 12 Lighting Dimmers for the following areas:

- Lighting occupancy sensors for 7 classrooms
- Lighting occupancy sensors for 4 restrooms, staff and student
- Lighting occupancy plus dimmers for 2 office and staff rooms
- Lighting occupancy sensors for the kitchen, cafeteria, library and storage areas

Exterior Dusk-to-Dawn sensors where needed

At Princeton Jr/Sr High School:

60 Lighting Occupancy Sensors and 15 Lighting Dimmers for the following areas:

- Lighting occupancy sensors for 8 classrooms
- Lighting occupancy sensors for 7 restrooms, staff and student
- Lighting occupancy plus dimmers for 13 office and staff rooms
- Lighting occupancy sensors for the kitchen, cafeteria, career center, gym foyer, gym entrances, student store and bus garage

Gym to be addressed upon inspection

Exterior Dusk-to-Dawn sensors where needed

4. PROJECT SCOPE

- Install occupancy sensors, lighting dimmers and dusk-to-dawn sensors in all District areas as needed
- Selection of the type of occupancy sensor shall be based on either using ceiling or wall/corner sensors that work best in the room. **Note: Do not use in-wall sensor + switch because line of sight is required to work properly.**
- Contractor will be responsible for ordering all parts as needed for the completion of this project
- It is the contractor's responsibility to insure that all installed items are compatible with existing lighting.
- It is the contractor's responsibility to verify the installation of all occupancy sensors and fixtures. They should be installed as follows:
 - Sensors
 - Maximum effective height.
 - In line of site of the main occupants/students/staff. (Note: sensors must work if the teacher is in the room alone or with a class.)
 - Install the power pack after the light switch to guarantee that the occupancy sensor can be disabled when lights are required to be off.
 - Dimmers
 - Dimmers shall be mounted as to be easily accessible to staff and students.
 - Dimming devices shall include an on/off option
- Contractor shall inspect work sites before the project start date to confirm occupancy sensor, dusk-to-dawn sensor and dimmer switch placement and totals. Inspection dates and times may be scheduled by calling the District Office at (530)439-2261.
- The contractor is responsible for the demolition and disposal of all replaced and/or repaired items associated with this project, including clean-up.
- Specifications for the lighting and the control devices are attached.
- Sensor Installation
 - Require a License Electrician to oversee all work. All wiring work and programming of the sensors to be done by certified electricians. An apprentice can only assist in the installation of sensors to the wall or ceiling.
 - Coordinate layout and installation of ceiling-mounted devices with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, smoke detectors, fire-suppression systems, and partition assemblies.
 - Install and aim sensors in locations to achieve not less than 90 percent coverage of areas indicated. Do not exceed coverage limits specified in manufacturer's written instructions
 - Must meet all local codes and NEC
 -
- Wiring Installation
 - Wiring Method: Comply with "Low-Voltage Electrical Power Conductors and Cables".
 - Wiring with enclosures: Comply with NECA 1. Separate power-limited and non-power limited conductors according to conductor manufacturer's written instructions.
 - Size conductors according to lighting control device manufacture written instructions unless otherwise indicated.
 - Splices, Taps, and Terminations: Make connections only on numbered terminals strips junction, pull, and outlet boxes; terminal cabinets; and equipment enclosures
 - Provide owner with as built plans and or drawings showing wiring schematic and location of devices, including catalog numbers at each location

Part 1- Indoor/Outdoor Sensors

- Action Submittals
 - Product Data for each type of product.
 - Field quality-control reports

- Closeout Submittals
 - Operation and Maintenance Data for each type of lighting control device to include emergency operation and maintenance.

- Indoor Occupancy Sensors Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - Bryant Electric, a Hubbell Company
 - Cooper Industry, Inc.
 - Hubbell Building Automation, Inc.
 - Leviton Mfg. Company, Inc.
 - Lutron Electronics Co., Inc.
 - Watt Stopper

- General Requirements for Sensors
 - Wall or ceiling-mounted, solid-state indoor occupancy sensors with a separate power pack. **Do not use in-wall sensor + switch occupancy sensors.**
 - Listed and labeled as defined in NFPA 70, by qualified testing agency, and marked for intended location and application.
 - Operation: Unless otherwise indicated, turn lights on when coverage area is occupied and turn them off when unoccupied; time delay for turning lights off is 30 minutes and sensitivity is set high
 - Sensor Output: Contacts rated to operate the connected relay complying with UL773A. Sensor is powered from the power pack.
 - Power Pack: Dry contacts rated for the 20A ballast load at 120 and 277-V ac, for 13-tungsten at 120-V ac and for 1hp at 120-V ac. Sensor has 24-V de, 150-mA, and Class 2 power source, as defined by NFPA 70.
 - Sensor Mounting: Suitable for mounting in any position on a standard outlet box.
 - Relay Mounting: externally mounted through a knockout in a standard electrical.

- Enclosure
 - Time-delay and Sensitivity Adjustments: Recessed and concealed behind hinged door.
 - Indicator: Digital display, to show when motion is detected during and normal.

- Operation of Sensor
 - Bypass Switch: Override the "on" function in case of sensor failure.
 - Automatic Light-Level Sensor: Adjustable from 2 to 200 fc; turn lights off when selected lighting level is present.
 - Dual-Technology type: Ceiling mounted; detect occupant in coverage area using PIR and ultrasonic detection methods. The particular technology or combination of technologies that control on-off functions is selectable in the Field B operating controls on unit.
 - Sensitivity Adjustment: Separate for each sensing technology.
 - Detector Sensitivity: Detect occurrences of 6-inch minimum movement of any portion of a human body that presents a target of not less than 36 sq. in., and detect a person of manner at an approximate speed of 12 inches/second.
 - Detection Coverage (Standard Room): Detect occupancy anywhere within a circular area of 1000 sq. ft. when mounted on a 96-inch-high ceiling.

- Switchbox-Mounted Occupancy Sensors Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - Bryant Electric, a Hubbell Company
 - Cooper Industry, Inc.
 - Hubbell Building Automation, Inc.
 - Leviton Mfg. Company, Inc.

- Lutron Electronics Co., Inc.
- Watt Stopper
- General Requirements for Switchbox-Mounted Sensors
 - Automatic wall switch occupancy sensor, suitable for mounting in a single gang switch box.
 - Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
 - Operating Ambient Conditions (OAC): Dry interior conditions, 32 to 120 deg F.
- Conductors and Cables
 - Power Wiring to Supply Side of Remote-Control Power Sources: not smaller than No. 12 AWG.
 - Comply with requirements in "Low-Voltage Electrical Power Conductors and Cables.
- Dusk-to-dawn outdoor lighting sensors shall be installed as needed, manufacturer is contractor preference.

Part 2 - Dimmers

- Action Submittals
 - Product Data for each type of product.
 - Field quality-control reports
- Closeout Submittals
 - Operation and Maintenance Data for each type of lighting control device to include emergency operation and maintenance.
- Indoor Lighting Dimmer: Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - Bryant Electric, a Hubbell Company
 - Cooper Industry, Inc.
 - Hubbell Building Automation, Inc.
 - Leviton Mfg. Company, Inc.
 - Lutron Electronics Co., Inc.
 - Watt Stopper
- General Requirements For Dimmers
 - Listed and labeled as defined in NFPA 70, by qualified testing agency, and marked for intended location and application.
- Dimmer Installation
 - Require a License Electrician to oversee all work. All wiring work and programming of the sensors is only done by certified electricians. An apprentice can only assist in the install of sensors to the wall or ceiling.
 - Coordinate layout and installation of devices with other construction that penetrates walls, including light fixtures, HVAC equipment, smoke detectors, fire-suppression systems, and partition assemblies.
- Wiring Installation
 - Wiring Method: Comply with "Low-Voltage Electrical Power Conductors and Cables."
 - Wiring with enclosures: Comply with NECA 1. Separate power-limited and non-power limited conductors according to conductor manufacturer's written instructions.
 - Size conductors according to lighting control device manufacture written instructions unless otherwise indicated.
 - Splices, Taps, and Terminations: Make connections only on numbered terminals strips junction, pull, and outlet boxes; terminal cabinets; and equipment enclosure.

- Label switches and contactors with a unique designation.
- Field Quality Control: Perform the following tests and inspections:
 - Operational Test: After installing time switches and sensors, and after electrical circuitry has been energized, start units to confirm proper unit operation.
 - Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
 - Lighting control devices will be considered defective if they do not pass tests and inspections.
 - Prepare test and inspection reports.

5. REQUEST FOR PROPOSAL AND PROJECT TIMELINE:

Mandatory job walk scheduled for January 3rd, 2018, 3:00 PM, Princeton Joint Unified School District Office, 473 State St. Princeton CA 95970

All proposals in response to this invitation for bid are due no later than January 10th, 2018, 4:00 PM.

Bid proposals will be opened on January 11th, 2018, 9:00 AM. If additional information or discussions are needed with any bidders, the bidder(s) will be notified.

The selection decision for the winning bidder will be made no later than January 11th, 2018, and will be presented at the January 18th, 2018 Princeton Board of Trustees meeting for final approval.

Contract negotiations will begin upon notification of winning bidder and are estimated to be completed by January 12th 2018.

Notifications to bidders who were not selected will be completed by January 12th, 2018.

Project to be completed by June 30, 2018. Installation can begin as soon as February 17th, 2018.

Must carry California minimum Vehicle Insurance when operating on School property.

6. BUDGET:

The budget for this project as specified by the Proposition 39 funding is \$28,415.00.

7. BIDDER QUALIFICATIONS:

Bidders should provide the following items as part of their proposal for consideration:

- Copy of current Department of Industrial Relations (DIR) registration
- Current valid contractor license number

8. PROPOSAL EVALUATION CRITERIA:

Princeton Joint Unified School District will evaluate all proposals based on the following criteria:

- Budget parameters
- Documentation of Licensing, Industrial Insurance, Vehicle Insurance
- Ability to provide a one year warranty on all work
- **Each bidder must submit their proposal to the address below by January 10rd, 2018 4:30 PM:**

Princeton JUSD
PO Box 8 (mailing)
473 State Street (physical)
Princeton, CA 95970
Attn: Lance Swift



maxLite® LED VAPOR TIGHT LINEAR FIXTURES

General Safety Information

To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards read all warnings and instructions included with and on the fixture box and all fixture labels.

Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.

Commercial installation, service and maintenance of luminaires should be performed by a qualified licensed electrician.

For Residential installation: If you are unsure about the installation or maintenance of the luminaires, consult a qualified licensed electrician and check your local electrical code.

DO NOT INSTALL DAMAGED PRODUCT!

This fixture is intended to be connected to a properly installed and grounded UL listed junction box.

WARNING:

AVOID ELECTRICAL SHOCK

Turn off electrical power at fuse or circuit breaker box before wiring fixture to the power supply. Turn off the power when you perform any maintenance. Verify that supply voltage is correct by comparing it with the luminaire label information. Make all electrical and grounded connections in accordance with the National Electrical Code and any applicable local code requirements.

All wiring connections should be capped with UL approved wire connectors.

CAUTION:

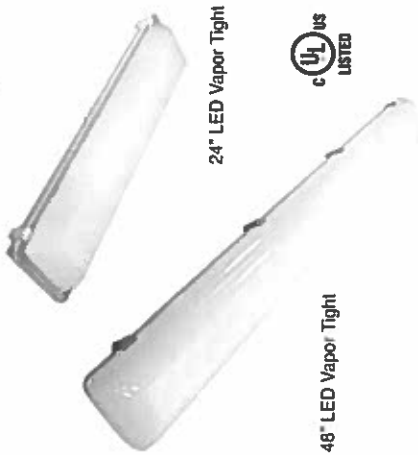
AVOID INJURY

Wear gloves and safety glasses at all times when removing luminaire from carton, installing, servicing or performing maintenance. Avoid direct eye exposure to the light source while it is on. Account for small parts and destroy packing material, as these may be hazardous to children.

CAUTION:

AVOID FIRE

Keep combustible and other materials that can burn away from luminaire and lamp/lens. IN 90°C SUPPLY CONDUCTORS.



24" LED Vapor Tight

48" LED Vapor Tight



Picture is for illustration purposes only. Your model may vary.



MaxLite® LED VAPOR TIGHT LINEAR FIXTURES

General Wiring Diagram

CAUTION:

Turn off electrical power at fuse or circuit breaker box before wiring fixture to the power supply.

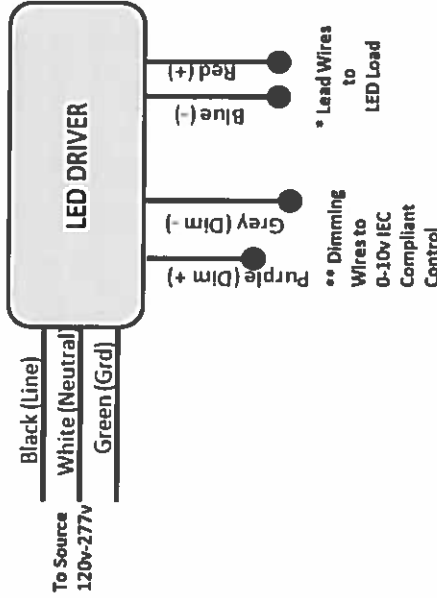
Connecting panels to AC source supply:

All units must be individually connected to the AC supply. (120-277 VAC)
Black = Line
White = Neutral
Green = Ground

Operating characteristic

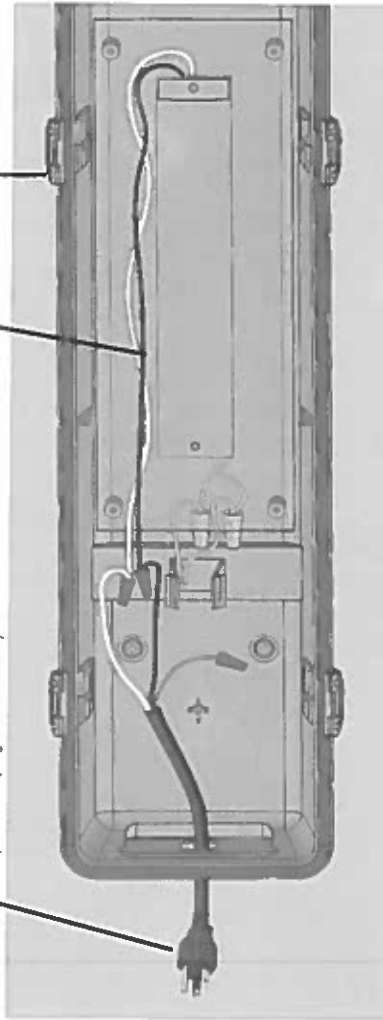
Voltage input: 120-277V 50/60 Hz
Operating temp: -30°F to 104°F

**Consult with dimmer control manufacturer's wiring instructions



Input voltage - cord or conduit according to local electrical codes (cord and plug not included.)

Driver (inside)
Lens buckles



Warning, Cautions and operating instructions

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards read all warnings and instructions included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow the general precautions.
- Commercial installation, service and maintenance of luminaires should be performed by a qualified licensed electrician.
- For The installation: If you are unsure about the installation or maintenance of the luminaires, consult a qualified licensed electrician and check your local electrical code.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

Warning: Risk of fire or electrical shock

- Turn off electrical power at fuse or circuit breaker box before wiring fixture to the power supply.
- Turn off the power when you perform any maintenance.
- Verify that supply voltage is correct by comparing it with the luminaire label information.
- Make all electrical and grounded connections in accordance with the National Electrical Code and any applicable local code requirements.
- All wiring connections should be capped with UL approved wire connectors.
- Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- Risk of fire or electric shock. Install this kit only in the luminaires that have the construction feat and dimensions shown in the photographs and/or drawings and where the input rating of the re kit does not exceed the input rating of the luminaire
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other st
- Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when drillin installation of LED retrofit kit. Check for enclosed wiring and components.

Caution: Risk of injury

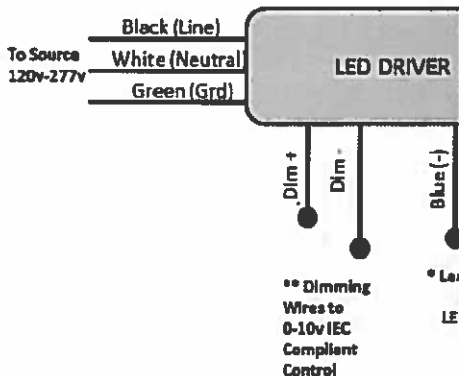
- Avoid direct eye exposure to the light source while it is on.
- Account for small parts and destroy packing material, as these may be hazardous to children.

Suitable for Dry or Damp location

General Wiring Diagram

Component Summary

Part	Qty.
Retrofit housing	1
Installation Bracket	2
Installation instruction	1
Lens	1
Label	1





RVLT

Revolution Lighting Technologies

Dimmable LED Thin Panel Interior Luminaire



SKU: 150321-001

Size: 2ftx4ft

CCT: 4000K

Input Voltage: 120-277VAC

Frequency: 50/60Hz

Input Power: 75W

Recessed Rating: IC Rated

LN: 00005576

WARNING

- Inherently protected
- Vapor barrier must be suitable for 90 degrees Celsius
- Min 90 degrees Celsius supply conductors
- Access above ceiling required
- Suitable for damp locations
- This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazard involved

Seesmart, Inc. | telephone: 805.578.2536 | web: www.seesmartled.com



INPUT

AC-L
AC-L
AC-N
AC-N
NC
FG

JAMES®

LED POWER SUPPLY

MODEL:ZY-SI40B-420090

Input Voltage	Input Current	PF	Output Voltage	Vmax	Output Current	ta(°C)
100-277V~50/60Hz	0.65A	0.9	27-42V	50V	<input type="checkbox"/> 600mA <input type="checkbox"/> 660mA <input type="checkbox"/> 700mA	-20~50
					<input type="checkbox"/> 850mA <input checked="" type="checkbox"/> 900mA <input type="checkbox"/> 1000mA	



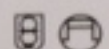
• tc=85°C



Wire preparation
push in

IN 18-16AWG
OUT 18-16AWG

MADE IN CHINA



CE RoHS

OUTPUT

GND
9-12V
LED-
LED+