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**Supplier:**
- **Name:** William Williams
- **City:** Electric Supply
- **City:**
- **State:**
- **Country:**
- **Phone:**
- **Fax:**
- **Email:**
- **Website:**

**Contractor:**
- **Name:**
- **Address:**
- **City:**
- **State:**
- **Zip Code:**
- **Phone:**
- **Fax:**
- **Email:**
- **Website:**

**Performance Evaluation Score:**
- **Score:**
- **Remarks:**
- **Signature:**
- **Date:**

**Compliance Responses:**
- **Number of Lines:** 2
- **Event Name:** LED Carriage Lights and
- **Event #:** 7030
- **Status:** Pending Award

**Award Quantity:** 4,000

**Line Item Description:**
- **Vendor Item Description:**
- **Unit Price:**
- **Total Price:**
- **Total Line Score:**

**Duration:**
- **Start Date:** 11/07/20
- **End Date:** 09/18/20

**Performance Evaluation Score:**
- **Score:**
- **Remarks:**
- **Signature:**
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Response For Supplier: Wesco Distribution

Event #: 7030-0

Name: LED Carriage Lights and Handrail Lights

Reference: Savannah Hilton Head Airport

Description: The purpose of these specifications is to obtain a new LED Carriage Lights and Handrail Lights for the Savannah Airport Commission. The specifications describe the minimum requirement required by the Savannah Airport Commission.

Preview Date: Q & A Open Date: 03/23/2019 08:00:00 AM
Open Date: 03/22/2019 05:00:00 PM Q & A Close Date: 04/01/2019 12:00:00 PM
Close Date: 04/09/2019 01:30:00 PM Dispute Close Date:

Responded To: 2 out of 2 lines

Total Bid Amount: $39,186.00 USD

Response Attachments

Attachment
lxen.pdf

Line Responses

Line 1: Carriage Light

Description: Carriage Light

Item: CARRIAGE LIGHT Carriage Light
Commodity Code: 931-53 Lighting Fixtures Maintenance and Repair
Quantity: 42.0000 UOM: EA

Bid Quantity: 42.0000 Unit Price: 834.000000 Extended Price: 35,028.00
No Charge: No No Bid: No
Vendor Item: BEACON CARRIAGE LIGHT LAJ20/AC/24NB-27/3K/UNV/DIR/PT
### Line 2: Handrail Vapor Tight Luminaire

**Description:** Handrail Vapor Tight Luminaire  
**Item:** HANDRAIL VAPOR TIGHT LUMINAIRE Handrail Vapor Tight Luminaire  
**Commodity Code:** 285-76 Street and Highway Lighting Luminaires, Accessories and Parts  
**Quantity:** 42.0000  
**UOM:** EA  
**Requested Delivery Date:** 05/31/2019

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<th>42.0000</th>
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<tr>
<td><strong>Vendor Item:</strong></td>
<td>VAPOR TIGHT FIXTURE LXEN4-40LW-RFA-EDU</td>
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</table>

**Comments:** QUOTING A HUBBELL COLUMBIA VAPOR FIXTURE. SPEC SHEET ATTACHED
FEATURES
- Available in 4" length
- Narrow housing design for applications with limited space
- Long life, 60,000 hour LEDs at L80 for reduced maintenance
- Four LED color choices
- IP66 and IP67 Standard
- IP66 all sizes when ordered with standard polycarbonate (POM) latches
- Fiberglass housing with F1 weatherability rating, standard
- Wet label standard
- UL Sanitation certified to NSF standards
- Gasket is non-porous to ensure seal
- Impact modified acrylic lens equivalent to 100% DR
- Lens firmly secured with captive tamper resistance ready polycarbonate latches
- Stainless steel latching optional
- Removable gear tray electrical access
- Includes surface mounting brackets
- Operates from -40°C to +60°C as standard
- Optional elevated ambient on most models
- DLC© (DesignLights Consortium) Qualified - see www.designlights.org
- Five year warranty (Terms and Conditions apply)

CONSTRUCTION
Housing is formed from UL SVA fiberglass. F1 weatherability rating, suitable for indoor or outdoor use with user exposure to UV light. Pour-in-place non-porous gasketing assures seal. LED affixed to removable gear tray. 8 Latches per 4" length. Latches are provided tamper resistance ready, tamper resistant screws by others. Latches are standard polycarbonate (POM), optional in stainless steel. Access openings are provided for electrical connection.

SHIELDING
Linear ribbed frosted acrylic lens impact modified equivalent to 100% DR; modification adds flexibility to reduce impact breakage compared to standard acrylic formulations.

FINISH
White painted parts are treated with a five-stage phosphate bonding process and finished with high reflectance baked enamel.

ELECTRICAL
Long-life LEDs are rated for 60,000 hours at L80 lumen maintenance. Driver options include fixed output for on/off function or continuous 0-10V dimming. QR code label affixed to housing for easy traceability.

MOUNTING
Use flexible conduit only.

CERTIFICATION
All luminaires are built to UL 1598 and 2108 standards, and bear appropriate CSA labels. Ingress protection IP65, IP66, and IP67 standard. UL Sanitation Certified per NSF Standards. Wet location labeling is standard. DLC© (DesignLights Consortium) Qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org. The DTS, Dimming Bypass Module, is for emergency circuit control loads including sensors and wireless systems listed to UL 924. See page 3 for wiring diagram. Link to Dimming Bypass Module Specification sheet.

WARRANTY
Five year warranty (Terms and Conditions Apply).

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SIZE</th>
<th>COLOR TEMP</th>
<th>LUMEN OUTPUT</th>
<th>LENS</th>
<th>DRIVER</th>
<th>VOLTAGE</th>
<th>OPTIONS</th>
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<tbody>
<tr>
<td>LXEN</td>
<td>4&quot;</td>
<td>30 3000K</td>
<td>XW Extra Low Watt</td>
<td>RFA Recessed Acrylic</td>
<td>E Fixed Output</td>
<td>120V-277V</td>
<td>GLR Fast Blow Fuse</td>
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<td></td>
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<td>35 3500K</td>
<td>LW Low Watt</td>
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<td>DTS Dimming Bypass Module</td>
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<td></td>
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<td>40 4000K</td>
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<td></td>
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<td>SSL Stainless Steel Tamper Resistance Ready Latches</td>
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<td>50 5000K</td>
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<td>TP Tamper Proof Latches</td>
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<th>Size</th>
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<td>3000 - 2200</td>
<td>18</td>
<td>111-112</td>
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<td></td>
<td>LW</td>
<td>1800 - 4300</td>
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Standard input resistance equivalent to 100% DR.
* For emergency circuit control loads including sensors and wireless systems listed to UL 924. Only available with 0-10V driver. See page 3 for wiring diagram.
PHOTOMETRIC DATA

LUMINAIRE DATA

Luminaire
LXEN4-40KW-RFA-EU
LXEN LED Narrow Enclosed and Gasketed, Extreme Environment 7" x 51" LED with Ribbed Frosted Acrylic Diffuser

Ballast
X10020056V054B5T1

Ballast Factor
1.00

Lamp
LED

Fixture Lumens
2095

Watts
17.70

Mounting
Surface

Shielding Angle
θ = 90°  Φ = 90°

Spacing Criteria
θ = 1.19°  Φ = 1.18°

Luminous Opening in Feet
Length: 4.25
Width: 0.31
Height: 0.17

ZONAL LUMEN SUMMARY

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<th>Zone</th>
<th>Lumens</th>
<th>% Lamp</th>
<th>% Fxt</th>
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ENERGY DATA

Total Luminous Efficiency: 100%
Total Lumens per Watt: 118
ANSI/IESNA RP-1-2004 Compliance: Noncompliant

Comparative Yearly Lighting Energy Cost per 1000 Lumens: $2.07 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT

---

LUMINAIRE DATA

Luminaire
LXEN4-40LU-WF-RFA-EU
LXEN LED Enclosed and Gasketed, Extreme Environment 7" x 51" LED with Ribbed Frosted Acrylic Diffuser

Ballast
X1040C1100V054BPT1

Ballast Factor
1.00

Lamp
LED

Fixture Lumens
4085

Watts
36.60

Mounting
Surface

Shielding Angle
θ = 90°  Φ = 90°

Spacing Criteria
θ = 1.19°  Φ = 1.26°

Luminous Opening in Feet
Length: 4.13
Width: 0.29
Height: 0.00

ZONAL LUMEN SUMMARY

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<td>0-180</td>
<td>4085</td>
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ENERGY DATA

Total Luminous Efficiency: 100%
Total Lumens per Watt: 112
ANSI/IESNA RP-1-2004 Compliance: Noncompliant

Comparative Yearly Lighting Energy Cost per 1000 Lumens: $2.18 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT
DIMENSIONAL DATA

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

DTS WIRING DIAGRAM

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<td>EMERGENCY LINE</td>
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<td>BLACK</td>
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<td>UTILITY NEUTRAL</td>
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<td>DIMMING</td>
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<td>GRAY</td>
<td>DIMMING</td>
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Response For Supplier: CITY ELECTRIC SUPPLY

Event #: 7030-0
Name: LED Carriage Lights and Handrail Lights
Reference: Savannah Hilton Head Airport
Description: The purpose of these specifications is to obtain a new LED Carriage Lights and Handrail Lights for the Savannah Airport Commission. The specifications describe the minimum requirement required by the Savannah Airport Commission.

Preview Date: 03/22/2019 05:00:00 PM
Q & A Open Date: 03/23/2019 08:00:00 AM
Open Date: 03/22/2019 05:00:00 PM
Q & A Close Date: 04/01/2019 12:00:00 PM
Close Date: 04/09/2019 01:30:00 PM
Dispute Close Date:
Responded To: 2 out of 2 lines
Total Bid Amount: $34,860.00 USD

Response Attachments

Attachment
LAI_20_LED_spec_sheet.pdf
Vapor-Tight-Strip_Spec-Sheet.pdf

Line Responses

Line 1: Carriage Light

Description: Carriage Light
Item: CARRIAGE LIGHT Carriage Light
Commodity Code: 931-53 Lighting Fixtures Maintenance and Repair
Quantity: 42.0000 UOM: EA

Bid Quantity: 42.0000 Unit Price: 790.00000 Extended Price: 33,180.00
No Charge: No No Bid: No
Vendor Item: PCPTT-27-2-GN-AC BEACON CARRIAGE LIGHT
Comments: AS SPECIFIED
### Line 2: Handrail Vapor Tight Luminaire

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<th>Handrail Vapor Tight Luminaire</th>
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<td><strong>Item</strong></td>
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<tr>
<td>Commodity Code</td>
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<td></td>
<td>Street and Highway Lighting Luminaires, Accessories and Part</td>
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<tr>
<td>Quantity</td>
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<td>UOM</td>
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<td>Requested Delivery</td>
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| Bid Quantity         | 42.0000                       |
| Unit Price           | 40.00000                      |
| Extended Price       | 1,680.00                      |

No Charge: No  
No Bid: No  
Vendor Item: VT30US440P SLIM VAPORTIGHT  
Comments: MEETS SPECS
**A. MODEL**
LAJ20  La Jolla 20" 

**B. LENS OPTIONS**
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<td>PC</td>
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<tr>
<td>PF</td>
<td>polycarbonate, frosted</td>
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**C. ENGINE - WATTS**
24NB-27  27 Watts - LED array

**D. CCT - COLOR TEMP**
- 3000K
- 4000K
- 5000K (std.)

**E. VOLTAGE**
UNV  120-277V

**F. OPTICS**
- DIR2  direct, type II
- DIR3  direct, type III
- DIR4  direct, type IV
- DIR5  direct, type V

**G. ELECTRICAL OPTIONS**
- PEC  photocell, button
- PEC  button, button

**H. CONTROL OPTIONS**
- GENI-XX  energen 1

**I. MOUNTING OPTIONS**
- PT  post top
- PM  pendant mount, arm/stem/chain available 2

**J. COLOR**
- BBT  basic black textured
- BMT  black matte textured
- WHT  white textured
- MBT  metallic bronze textured
- BZT  bronze textured
- DBT  dark bronze textured
- GYS  gray smooth
- DPS  dark platinum smooth
- GNT  green textured
- MST  metallic silver textured
- MTT  metallic titanium textured
- OWI  old world iron
- RAL  __________

---

1 When ordering Energeni, specify the routine setting code (example GENI-04). See Energeni brochure and instructions for setting table and options. Not available with sensor options.

2 Consult factory regarding mounting options and additional information required regarding the mounting in your application.
Housing: All cast aluminum parts shall be low copper alloy A356. All extruded aluminum parts shall be alloy 6061-T6, 6063-T5 or equal.

Construction: The upper chamber/rid shall be topped by a decorative cast aluminum finial/cap and mechanically fastened to the optical chamber. The cast multi-sided cage shall accommodate UV stabilized acrylic or polycarbonate lenses (side panels) which shall be sealed for weather tight operation. The electrical chamber/rider shall be aluminum, decorative filter designed to accommodate the ballast assembly and shall mount to 3 C0D x 3" H tenon and secured by three stainless steel set screws.

Fasteners: All fasteners shall be Corrosion Resistant. When tamper resistant fasteners are required, spanner HD (snake eye) style shall be provided (special tool required, available at additional cost).

Finish: Finish shall be a Beacote V polyester powder-coat electro-statically applied and thermocured. Beacote V finish shall consist of a five-stage iron phosphate chemical pretreatment regimen with a polymer primer seal, oven dry off, and top coated with a thermoset super TGIC polyester powdercoat finish. The finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM C522 and resists surface impacts of up to 160 inch-pound.

Bezel Optical System: Each luminaire is supplied with an optical one piece cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel. The cartridge is held together with internal brass standoff soldered to the board so that it can be field replaced as a one piece optical system. Two-piece silicone and polycarbonate foam gasket ensures a weather-proof seal around each individual LED and allows the luminaire to be rated for high-pressure hose down applications. The optical cartridge is sealed to the extruded housing with fasteners and a heat pad to ensure thermal conductivity. The optics are held in place without the use of adhesives and the complete assembly is gasketed for high pressure hose down cleaning. The cartridge assembly is available in various lighting distributions using a specially designed acrylic optical lens over each LED.

Power Supply/Driver Requirements: U.L. UL1310, Class 2 and UL46 compliant

Color Rendering Index (CRI): Luminaire shall have a minimum CRI of 67 at 5000K.

Operating Environment: Shall be able to operate normally in ambient temperatures from -40°C to 40°C

LifeShield Circuit: Thermal circuit shall protect the luminaire from excessive temperature by interfacing with its 0-10V dimmable drivers to reduce drive current as necessary. The factory-preset temperature limits shall be designed to ensure maximum hours of operation to assure L70 rated lumen maintenance. The device shall activate at a specific, factory-preset temperature, and progressively reduce power over a finite temperature range in recognition of the effect of reduced current on the internal temperature and longevity of the LEDs and other components. A luminaire equipped with the device may be reliably operated in any ambient temperature up to 55°C (131°F). The thermal circuit will allow higher maximum Wattages than would be permissible on an unregulated luminaire (if some variation in light output is permissible), without risk of premature LED failure. Operation shall be smooth and undetectable to the eye. Thermal circuit shall directly measure the temperature at the LED solder point.

Thermal circuit shall consist of surface mounted components mounted on the LED engine (printed circuit board). For maximum simplicity and reliability, the device shall have no dedicated enclosure, circuit board, wiring harness, gaskets, or hardware. Device shall have no moving parts, and shall operate entirely at low voltage (NEC Class 2). The device shall be located in an area of the luminaire that is protected from the elements.

Thermal circuit shall be designed to “fail on”, allowing the luminaire to revert to full power in the event of an interruption of its power supply, or faulty wiring connection to the driver.

Device shall be able to co-exist with other 0-10V control devices (occupancy sensors, external dimmers, etc). The device will effectively control the solder point temperature as needed; otherwise it will allow the other control device(s) to function unimpeded.

Surge Protector: The on-board surge protector shall be a UL recognized component for the United States and Canada and have a surge current rating of 20,000 Amps using the industry standard 8/20 μsec wave. The LSP shall have a clamping voltage of 825V and surge rating of 540J. The case shall be a high-temperature, flame resistant plastic enclosure.

Electrical: Luminaires are equipped with LED driver(s) that accept 90 through 305 VAC, 50 Hz to 60 Hz (UNIV). Power factor is .92 at full load. All electrical components are rated at 50,000 hours at full load and 25°C ambient conditions per MIL-217F Notice 2. All driver components supplied are component-to-component wiring within the luminaire will carry no more than 80% of rated current and is listed by UL for use at 600VAC at 50°C or higher. Plug disconnects are listed by UL for use at 600 VAC, 15A or higher.

Agency Certification: The luminaire shall bear an NRTL label and be marked suitable for wet locations.

Limited Warranty: Beacon luminaires feature a 5 year limited warranty. Beacon LED luminaires with LED arrays feature a 5 year limited warranty covering the LED arrays. LED drivers are covered by a 5 year limited warranty. PIR sensors carry a 5 year limited warranty from the sensor manufacturer. See Warranty Information on www.beaconproducts.com for complete details and exclusions.

Due to our continued efforts to improve our products, product specifications are subject to change without notice.
LED VAPOR TIGHT STRIP

IP67 and IK10 ratings plus corrosion resistance make this the toughest fixture around.

Uniquely rugged and slim, the Litetronics LED Vapor Tight Slim Strip Light works where few other lighting products can. Only 1.5 inches in diameter, this DLC Premium product is both IP67 and IK10 rated. Suitable for both indoor and outdoor use, this corrosion-resistant fixture is well-suited for harsh industrial environments like food-service and factory environments as well as warehouses.

Offering 130 lumens per watt, and a beam angle of 120°, the Vapor Tight Slim Strip Light features a highly transparent cover. With compact stainless steel hardware for mounting the fixture on walls or ceilings, the product is well suited for applications where only limited space is available.

<table>
<thead>
<tr>
<th>KEY FEATURES</th>
<th>MARKETS</th>
<th>APPLICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>• IP67 Rated</td>
<td>• Commercial</td>
<td>• Corridor Lighting</td>
</tr>
<tr>
<td>• DLC Premium listed</td>
<td>• Warehouse</td>
<td>• Halls</td>
</tr>
<tr>
<td>• IK10 Rated</td>
<td>• Retail</td>
<td>• Storage Areas</td>
</tr>
<tr>
<td>• Connectability</td>
<td>• Schools</td>
<td>• Stairways</td>
</tr>
<tr>
<td>between fixtures</td>
<td>• Health Care</td>
<td>• Parking Lots</td>
</tr>
<tr>
<td>• 4’ &amp; 8’ models</td>
<td>• Gas Stations</td>
<td>• Car Washes</td>
</tr>
<tr>
<td>• 130 Ipw</td>
<td>• Factories</td>
<td></td>
</tr>
<tr>
<td>• 5 year warranty</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Corrosion resistant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Non-dimmable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• 5’ cable attached</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• 100-277V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Stainless steel wall/ceiling</td>
<td></td>
<td></td>
</tr>
<tr>
<td>mount accessories standard</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

![DLC Premium, C-UL-US, FCC, RoHS Compliant](image-url)
LED VAPOR TIGHT STRIP

SPECIFICATIONS
Average Rated Life: 50,000H
CRI: 80
Mounting: Stainless steel brackets
Power Factor: ≥0.91
Volts: 120-277
Beam Angle: 120°
IP Rating: 67
IK Rating: 10
Operating Temperature: -22°F to 113°F

CONNECTABILITY
The 4' model can be daisy chained, enabling coverage of a larger area from one power source.

Max number of fixtures that can be connected:

<table>
<thead>
<tr>
<th>WATTS</th>
<th>MAX QUANTITY IN DAISY CHAIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>33</td>
</tr>
</tbody>
</table>

Above: The stock end cap has been removed and replaced with the connectable end cap, facilitating the connection between two fixtures while maintaining the same protection from the elements.

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>TYPE</th>
<th>WATTS</th>
<th>VOLTS</th>
<th>ORDERING CODE</th>
<th>DESCRIPTION</th>
<th>CCT (K)</th>
<th>LUMENS</th>
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</thead>
<tbody>
<tr>
<td>4'</td>
<td>30</td>
<td>120-277</td>
<td>VT30US440P</td>
<td>30W 4' LED VAPOR TIGHT 120-277V 4000K PREM</td>
<td>4000</td>
<td>3,900</td>
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<td></td>
<td></td>
<td></td>
<td>VT30US450P</td>
<td>30W 4' LED VAPOR TIGHT 120-277V 5000K PREM</td>
<td>5000</td>
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<tr>
<td>8'</td>
<td>55</td>
<td></td>
<td>VTSSUS840P</td>
<td>55W 8' LED VAPOR TIGHT 120-277V 4000K PREM</td>
<td>4000</td>
<td>7,150</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>VTSSUS850P</td>
<td>55W 8' LED VAPOR TIGHT 120-277V 5000K PREM</td>
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<td></td>
</tr>
</tbody>
</table>

ACCESSORIES

VTAM01

VTAM02

A

B

<table>
<thead>
<tr>
<th>IMAGE</th>
<th>ORDERING CODE</th>
<th>DESCRIPTION</th>
<th>ACCESSORY USE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>VTAM01</td>
<td>4' VAPOR TIGHT SUSPENSION MOUNT KIT</td>
<td>Used to suspend 4' Vapor Tight Light</td>
</tr>
<tr>
<td>B</td>
<td>VTAM02</td>
<td>8' VAPOR TIGHT SUSPENSION MOUNT KIT</td>
<td>Used to suspend 8' Vapor Tight Light</td>
</tr>
</tbody>
</table>
Response For Supplier: Grainger

Event #: 7030-0

Name: LED Carriage Lights and Handrail Lights

Reference: Savannah Hilton Head Airport

Description: The purpose of these specifications is to obtain a new LED Carriage Lights and Handrail Lights for the Savannah Airport Commission. The specifications describe the minimum requirement required by the Savannah Airport Commission.

Preview Date: 
Open Date: 03/22/2019 05:00:00 PM
Close Date: 04/09/2019 01:30:00 PM

Q & A Open Date: 03/23/2019 08:00:00 AM
Q & A Close Date: 04/01/2019 12:00:00 PM
Dispute Close Date: 

Responded To: 2 out of 2 lines
Total Bid Amount: $11,071.20 USD

Line Responses

Line 1: Carriage Light

Description: Carriage Light

Item: CARRIAGE LIGHT Carriage Light
Commodity Code: 931-53 Lighting Fixtures Maintenance and Repair
Quantity: 42.0000 UOM: EA

No Charge: No No Bid: Yes

Line 2: Handrail Vapor Tight Luminaire

Description: Handrail Vapor Tight Luminaire

Item: HANDRAIL VAPOR TIGHT LUMINAIRE Handrail Vapor Tight Luminaire
Commodity Code: 285-76 Street and Highway Lighting Luminaire, Accessories and Part
Quantity: 42.0000 UOM: EA
Requested Delivery Date: 05/31/2019

Bid Quantity: 42.0000 Unit Price: 263.600000 Extended Price: 11,071.20
No Charge: No No Bid: No
Event # 7030-0: LED Carriage Lights and Handrail Lights

**Vendor Item:** 53XH25  Lithonia Vapor Tight Fixture