



PUBLIC NOTICE

INVITATION TO BID

Sealed bids will be received, opened, and read aloud in public session for the purchase of **POLE LIGHTING** for the **CITY OF ORANGE BEACH, ALABAMA**, at **11:00 A.M. CDT on Thursday, July 6, 2017**, at the City Hall Municipal Complex located at 4099 Orange Beach Blvd., Highway 161, Orange Beach, Alabama.

Bid specifications may be obtained from Orange Beach City Hall, 4099 Orange Beach Blvd., Orange Beach, Alabama, Monday through Friday from 8:00 a.m. until 5:00 p.m., or downloaded from the City's website at www.cityoforangebeach.com.

Sealed bids may be mailed or delivered directly to the City of Orange Beach prior to the public opening. All sealed bids must be clearly and legibly marked "SEALED BID," the bidder's name, the name of the bid, and the opening date and time. Contact Renee Eberly at (251) 981-6806 or reberly@cityoforangebeach.com with any questions.

Sealed bids must be mailed to the following address:

City of Orange Beach
Attention: City Clerk
P.O. Box 458
Orange Beach, Alabama 36561

Or hand delivered to:

City of Orange Beach
Attention: City Clerk
4099 Orange Beach Blvd.
Orange Beach, Alabama 36561

Be advised that overnight delivery by express or courier to Orange Beach is not guaranteed. Faxed bids will not be accepted.

The lowest responsive, responsible bid will be accepted with key consideration based upon best value and benefit to the public. The City of Orange Beach reserves the right to reject any and all bids, to waive any irregularity in the bids received, and to accept or reject any items of the bid for the benefit of the public. No conditional bids will be accepted. No bid may be withdrawn for a period of thirty (30) days after the scheduled closing date and time for the receipt of bids.

THE CITY OF ORANGE BEACH, ALABAMA



INVITATION TO BID
Requisition No. 2017-0706

INVITATION TO BID DATE: **June 16, 2017**
BID TITLE: **Pole Lighting**
PLACE OF BID OPENING: **City of Orange Beach, City Hall, 4099 Orange Beach Blvd.**
BIDS MUST BE RECEIVED BEFORE: **July 6, 2017 at 11:00 A.M. (Central)**
BIDS WILL BE PUBLICLY OPENED: **July 6, 2017 at 11:00 A.M. (Central)**

Sealed bids will be received by the City of Orange Beach at the Office of the City Clerk located at Orange Beach City Hall until the above time and date at which time they will be opened as soon thereafter as practicable.

NOTE: For this bid to be considered responsive, all information in this section should be supplied, as appropriate, or the entire bid may be disqualified. Bid response must be in ink or typed with original signature. No errors will be corrected after bids are opened. No prices shall include State or Federal Exercise Taxes; tax exemption certificates furnished upon request. The City of Orange Beach reserves the right to accept or reject all bids or any portion thereof. The City reserves the right to require a bid bond, in which case specific information shall be provided the bid documents.

ALL BIDS MUST BE RETURNED AS FOLLOWS:

All bidders must use the bid form provided in the bid documents and show on the envelope "SEALED BID," the bid title, the bidder's name, and the opening date and time. Each bid must be in a separate envelope.

U.S. Postal Service
City of Orange Beach
Attention: City Clerk
P.O. Box 458
Orange Beach, Alabama 36561

Courier (UPS, FedEx, etc.)
City of Orange Beach
Attention: City Clerk
4099 Orange Beach Blvd.
Orange Beach, Alabama 36561

1. For the purchase or lease of personal property only, a resident person, firm or corporation, whose bid is no more than five percent (5%) greater than the lowest bid, may be the successful bidder and the contract may be awarded to such resident responsible bidder. A resident bidder is defined by the City Council of Orange Beach as any business located within Baldwin County.
2. Contact Tim Tucker at 251-974-5492/ttucker@cityoforangebeach.com for questions concerning the technical specifications.
3. Contact Renee Eberly, City Clerk/Procurement Officer at 251-981-6806/reberly@cityoforangebeach.com for questions concerning technical specifications or general bid procedures.

BID FORM –POLE LIGHTING

<u>Item</u>	<u>Est Qty</u>	<u>Description</u>	<u>Make/Model/Product No.</u>	<u>Unit Price</u>	<u>Extended Price</u>
Coastal Arts Center Site:					
A	9	25' Light Poles, as specified	_____	\$ _____	\$ _____
B	9	Arms, as specified	_____	\$ _____	\$ _____
C	18	Light Fixtures, as specified	_____	\$ _____	\$ _____
Waterfront Park Site:					
D	22	18' Light Poles, as specified	_____	\$ _____	\$ _____
E	22	Light Fixtures, as specified	_____	\$ _____	\$ _____
F.O.B. Destination: City of Orange Beach				\$ _____	
BID TOTAL (Sum of Extended Prices and Delivery)				\$ _____	

Optional Alternate:

<u>Item</u>	<u>Est Qty</u>	<u>Description</u>	<u>Make/Model/Product No.</u>	<u>Unit Price</u>	<u>Extended Price</u>
A-Alt	9	30' Light Poles, as specified	_____	\$ _____	\$ _____

Days to Deliver after Receipt of Purchase Order: _____

Warranty Description: _____

Warranties shall be provided in writing and shall specify any and all exclusions, including products and services. If such warranties are provided at additional cost, the incremental cost must be so specified. The procedure necessary to notify such warranty must be specified. Any additional charges relating to the utilization of the warranty provided must be specified.

Documentation:

Specifications for the proposed equipment must be attached to the bid.

City of
Orange Beach
A L A O B A M A
Life is better here

The bidder acknowledges receipt of the following addenda covering revisions to the bid documents, and states that the costs, if any, of such revisions have been included in the base bid and other prices quoted herein:

Addendum No. _____ Dated: _____
 Addendum No. _____ Dated: _____

Note: If no addenda have been received, write in "none."

Company Name	Company Representative
Street Address	Title
City, State, Zip	Phone
Federal Employer ID No. <i>(if no FEIN, enter SSN)</i>	Email

I/we agree to furnish at the prices shown and guarantee that each offered will meet or exceed all specifications, terms and conditions, and requirements listed. This is the total price and includes all delivery or freight charges to the City of Orange Beach. Any attachment hereto is made and becomes a part of this inquiry and must be signed by the bidder. I herein affirm that I have not been in any agreement or collusion among bidders in restraint of competition to bid at a fixed price or to refrain from bidding otherwise.

SWORN TO AND SUBSCRIBED BEFORE ME THIS DAY OF _____, 20____.	Company Name	Authorized Signature (INK)
	Mail Address	Typed Authorized Name
Notary Public	City, State, Zip	Title
Commission Expires	Phone Including Area Code	Fax Number

BID SPECIFICATIONS

A. Scope of Work

The successful bidder shall provide Pole Lighting, per the following bid specifications, to be located at the City of Orange Beach's Waterfront Park and Coastal Arts Center. City staff will be performing the installation.

B. Project Description

The City of Orange Beach is seeking to add pole lighting to a new parking lot at the Coastal Arts Center (26389 Canal Road) and to replace existing lighting at Waterfront Park. Lighting for the Coastal Arts Center parking lot shall be 25' tall posts with a bolt base and arm with two light fixtures. Lighting for Waterfront Park shall be 18' tall, single head, direct burial posts.

C. Use of Brand Names in Bid

The use of any brand name and/or product numbers is to establish industry standards and minimum specifications. Other brands may be considered for review if detailed product information and specifications outlining any and all differences are included in the bid.

D. Bid Term

The term of this purchasing agreement will be one (1) year from the date of award with the option to renew for two (2) additional one-year terms.

E. Bid Pricing

Bid total offered shall include the cost of all items including handling and shipping charges, F.O.B. Delivery: City of Orange Beach. The City of Orange Beach is tax exempt. Prices offered shall be firm against any increase for one (1) year from the date of award. Prior to the commencement of subsequent renewal periods, it shall be the successful bidder's responsibility to send written notification thirty (30) days in advance of any requested price change. The City reserves the right to grant or deny the request for a price increase.

F. Estimated Quantities

The items listed on the bid form will be furnished at such time and in such quantities as they are required. The City reserves the right to purchase any varying amounts less or more than the estimated quantities with no change in unit prices. The City's intention is to place a single order for the quantity of materials necessary to complete the project. The City would like the option to place additional orders at the same unit pricing over the term of the purchase agreement for additional items as needed.

G. Minimum Specifications

All items shall be new and unused. Construction materials must be commercial grade suitable for a hot, humid, coastal environment. All equipment shall meet or exceed current industry standards. All integral parts not specifically mentioned in the scope of these specifications that are necessary to provide a complete working unit shall be furnished.

Coastal Arts Center Site

Item A – 25' Light Poles – Hapco B28777-P(1), or equal

1. Estimated Quantity – 9
2. Round Tapered Aluminum 25' Bolt A Base Pole
3. Black Finish
4. Designed and constructed to withstand 140 MPH wind speed

Item B – Arms – Hapco ARM41400, or equal

1. Estimated Quantity – 9
2. Must be compatible with proposed light poles and fixtures

Item C – Decorative Post Top Light Fixtures – Cooper GAR-080-LED-E1-5-V-X-A-BK-R, or equal

1. Estimated Quantity – 18
2. Design – Acorn Base
3. LED

4. Voltage – Universal (120-277V)
5. Refractor Type – Type V
6. Top Type – Victorian
7. Cage Type – None
8. Finial Type – Architectural
9. Color – Black
10. Options – NEMA Photocontrol Receptacle
11. Must be compatible with proposed light poles and arms

Optional Alternate – Item A-Alt – 30’ Light Poles – Hapco B29130-P(1), or equal

1. Estimated Quantity – 9
2. Round Tapered Aluminum 30’ OA (25’ MH) Embedded Pole
3. Black Finish
4. Direct Burial
5. Designed and constructed to withstand 140 MPH wind speed

Waterfront Park Site

Item D – 18’ Light Poles – Hapco B28518-P(1), or equal

1. Estimated Quantity – 22
2. Round Tapered Aluminum 18’ OA (14’ MH) Embedded Pole
3. Black Finish
4. Direct Burial
5. Designed and constructed to withstand 140 MPH wind speed

Item E - Decorative Post Top Light Fixtures – Cooper GAR-080-LED-E1-3-V-X-A-BK-R, or equal

1. Estimated Quantity – 22
2. Design – Acorn Base
3. LED
4. Voltage – Universal (120-277V)
5. Refractor Type – Type III
6. Top Type – Victorian
7. Cage Type – None
8. Finial Type – Architectural
9. Color – Black
10. Options – NEMA Photocontrol Receptacle
11. Must be compatible with proposed light poles and arms

H. Delivery

The successful bidder shall coordinate with City staff for the offloading and delivery of equipment on site. The successful bidder shall be responsible for complying with applicable safety requirements for his workers and others.

Delivery shall be to:

City of Orange Beach
 Public Works Shop
 4400 William Silvers Parkway
 Orange Beach, AL 36561

I. Documentation

The successful bidder shall include all documents, manuals, parts lists, and other printed material relating to the operation and maintenance of the equipment. Documentation shall include installation instructions. Digital format is acceptable.

GENERAL INSTRUCTIONS FOR BIDDERS

1.0 INTRODUCTION

All bidders will be bound to the general conditions and requirements set forth in these general instructions and such instructions shall form an integral part of each purchase contract awarded by the Orange Beach City Council. Applicability of general conditions as stated below shall be determined by the City of Orange Beach. All bids must be submitted on and in accordance with the instructions provided by the City of Orange Beach.

2.0 BID DOCUMENTS

A complete set of Bid Documents is included herein. The date, time, and place of a bid opening will be given in the Invitation to bidders. Copies of the complete set of Bid Documents may be inspected and/or obtained at the following location:

Orange Beach City Hall
4099 Orange Beach Boulevard
Orange Beach, AL 36561

Or downloaded from the City's website:
www.cityoforangebeach.com, see "Bids"

3.0 EXAMINATION OF DOCUMENTS

- 3.1 Carefully examine the Bid Documents, Specifications, and Drawings.
- 3.2 Bids shall include all costs required to provide the requested materials.
- 3.3 No charge will be allowed for federal, state, or municipal sales and excise taxes since the City is exempt from such taxes.

4.0 INTERPRETATIONS AND ADDENDA

- 4.1 Should a bidder find discrepancies, ambiguities, or omissions in the Specifications, or should he/she be in doubt as to their meaning, he/she shall immediately notify the Procurement Officer (Renee Eberly at 251-981-6806 or reberly@cityoforangebeach.com).
- 4.2 The Procurement Officer will issue Addenda to clarify discrepancies, ambiguities, or omissions in the Specifications.
- 4.3 Addenda will be posted on the City's website at: www.cityoforangebeach.com
- 4.4 Addenda shall become part of the bid and all bidders must acknowledge receipt of Addenda on their Bid Form or their bid will be rejected. Bidders shall be bound by all Addenda.
- 4.5 The City is not responsible for any oral instructions.

5.0 PREPARATION OF BID

- 5.1 The bid must be submitted on the Bid Form furnished. All information required by the Bid Documents must be given to constitute a complete bid.
- 5.2 The Bidder must print, in figures, without interlineations, alterations, or erasures, a Unit Price. The Bidder shall then print the total sum on the line designated as "Bid Total." The City will check the total sum printed by the Bidder, and, in case of error or discrepancy, the total sum printed by the Bidder listed in the bid shall prevail and this shall be the Contract Bid Price.
- 5.3 Prices and all information must be legible. Illegible or vague bids may be rejected.
- 5.4 All signatures must be written. Facsimile, printed, or typewritten signatures are not acceptable.

- 5.5 Under penalty of perjury, the Bidder certifies by signature on the Bid Form that:
- The bid has been arrived at by the Bidder independently and has been submitted without collusion with any other vendor of materials, supplies, equipment, or services for the type described in the Invitation to Bid; and
 - The contents of the bid have not been communicated by the Bidder; nor to his/her best knowledge and belief by any of his/her employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished herewith prior to the official opening of the bid.

6.0 DELIVERY AND SUBMISSION OF BID

- 6.1 Each bid shall be placed, together with the Bid Bond, if applicable, in a sealed envelope. Bid envelopes must be clearly marked "SEALED BID," the Bidder's name, the title of the bid, and the opening date and time.
- 6.2 All bids received after the time stated in the Invitation to Bid will not be considered and will be returned unopened to the Bidder. The Bidder assumes risk of delay in the mail. Whether sent by mail or by means of personal delivery, the bidder assumes responsibility for having bids deposited on time at the place specified.
- 6.3 The submission of a bid will be construed to mean that the Bidder is fully informed as to the extent and character of the supplies, materials, or equipment required, and as a representation that the bidder can furnish the supplies, materials, or equipment satisfactorily in complete compliance with the specifications.

7.0 MODIFICATIONS AND WITHDRAWALS OF BIDS

- 7.1 No alteration, erasure, or addition is to be made in the typewritten or printed matter. Deviations from the specifications must be set forth in the space provided in bid or by attached sheets for this purpose.
- 7.2 Bids may not be modified after submittal.
- 7.3 Bidder may withdraw his/her bid, either personally or by written request, at any time prior to the scheduled bid opening time.
- 7.4 No bidder may withdraw his/her bid for a period of thirty (30) days after the bid opening.

8.0 RIGHT TO REJECT BID

Bids may be rejected if they contain any omissions, alterations of form, additions not called for, conditional bids, alternate bids unless requested by the City, incomplete bids, erasures, or irregularities of any kind. Bids in which the Unit or Lump Sum prices are obviously unbalanced may be rejected. The City reserves the right to reject any and all bids for any reason and to waive any informality or irregularity in the bids received.

9.0 BASIS OF AWARD

All purchases which are based on competitive Invitations to Bids are awarded to the lowest, responsive bidder subject to the City's right to reject any or all bids and to waive informality and irregularity in bids and bidding. In addition to price, consideration will be given to the following items when determining the lowest, responsive bidder:

- The best interests of the City of Orange Beach;
- The quality and performance of the goods or services to be supplied;
- Conformity to specifications;

- Delivery time; and
- Other unique requirements outlined in the bid request.

10.0 CONTRACT

- 10.1 The Bid Form shall constitute a contract with the successful bidder and bind the successful bidder to furnish and deliver at the prices and in accordance with the conditions of the bid.
- 10.2 The placing in the mail a notice of award or purchase order to a successful bidder, to the address given in the bid, will be considered sufficient notice of acceptance of bid.
- 10.3 If the successful bidder fails to deliver within the time specified or within reasonable times as interpreted by the City of Orange Beach, or fails to make replacement of rejected articles when so requested immediately or as directed by the City, the City of Orange Beach may purchase from other sources to take the place of the item rejected or not delivered. The City of Orange Beach reserves the right to authorize immediate purchase from other sources against rejections on any contract when necessary.
- 10.4 A contract may be canceled for non-performance.
- 10.5 No items are to be shipped or delivered until receipt of an official purchase order from the City of Orange Beach.
- 10.6 It is mutually understood and agreed that the successful bidder shall not assign, transfer, convey, sublet, or otherwise dispose of the contract of bidders right, title or interest therein, or bidders power to execute such contract to any other person, company, or corporation without the previous written consent of the City of Orange Beach.

11.0 GUARANTEES BY THE SUCCESSFUL BIDDER

The successful bidder guarantees:

- Products against defective material or workmanship and to repair or replace any damages or marring in transit;
- To furnish adequate protection from damage for all work and to repair damages of any kind for which the bidder or bidder's workers are responsible to the building, grounds, or equipment;
- To carry adequate insurance to protect the City of Orange Beach from loss of property and/or life in cases of accident, fire, or theft;
- That all deliveries will be equal to bid samples.

12.0 PAYMENT

The Bidder may submit an Application for Payment for provided materials in accordance with the accepted Unit Prices. Payment shall be made to the Bidder within thirty (30) days of receipt and approval of Application for Payment.



REQUIREMENTS FOR CONTRACTS AND PURCHASES

Effective January 1, 2012 under the "Beason-Hammon Alabama Taxpayer and Citizen Protection Act," Act No. 2011-535, Alabama Code (1975) Section 31-13-1, Et Seq., before entering into a contract with the City to:

1. Perform a service;
2. Perform work;
3. Provide a product;
4. Accept a grant; and/or
5. Accept an initiative

The State of Alabama requires the business entity to sign a notarized affidavit agreeing:

1. Not to knowingly employ, hire for employment, or continue to employ, any unauthorized aliens in the State of Alabama;
2. To enroll in the E-Verify Program, to verify the immigration status of every employee required to be re-verified through that system and to provide documentation of its enrollment; and
3. To require its subcontractors to comply with the above requirements.

Before any contract can be let, purchase can be made, or payment can be issued by the City of Orange Beach after January 1, 2012, the Affidavit on the reverse side of this document must be completed, notarized, and returned to our offices.

Note: Proof of enrollment in the E-Verify Program must accompany the Affidavit, unless you do not have or hire any employees.

Questions about this process may be directed to Renee Eberly, City Clerk/Procurement Officer, at (251) 981-6806 or via e-mail at reberly@cityoforangebeach.com.

COMPLETED AFFIDAVIT MUST BE RETURNED IN SEALED BID.

AFFIDAVIT OF CONTRACTOR OR DIRECT VENDOR

State of _____

County of _____

Before me, a notary public, personally appeared _____ (print name) who, being duly sworn, says as follows:

As a condition for the award of any contract, grant, or incentive by the City of Orange Beach, Alabama, I hereby attest that in my capacity as _____ (state position) for _____ (state business entity/employer/contractor name) that said business entity/employer/contractor shall not knowingly employ, hire for employment, or continue to employ an unauthorized alien within the State of Alabama.

I further attest that said business entity/employer/contractor is enrolled in the E-Verify program.

(Attach documentation establishing that business entity/employer/contractor is enrolled in the E-Verify Program.)

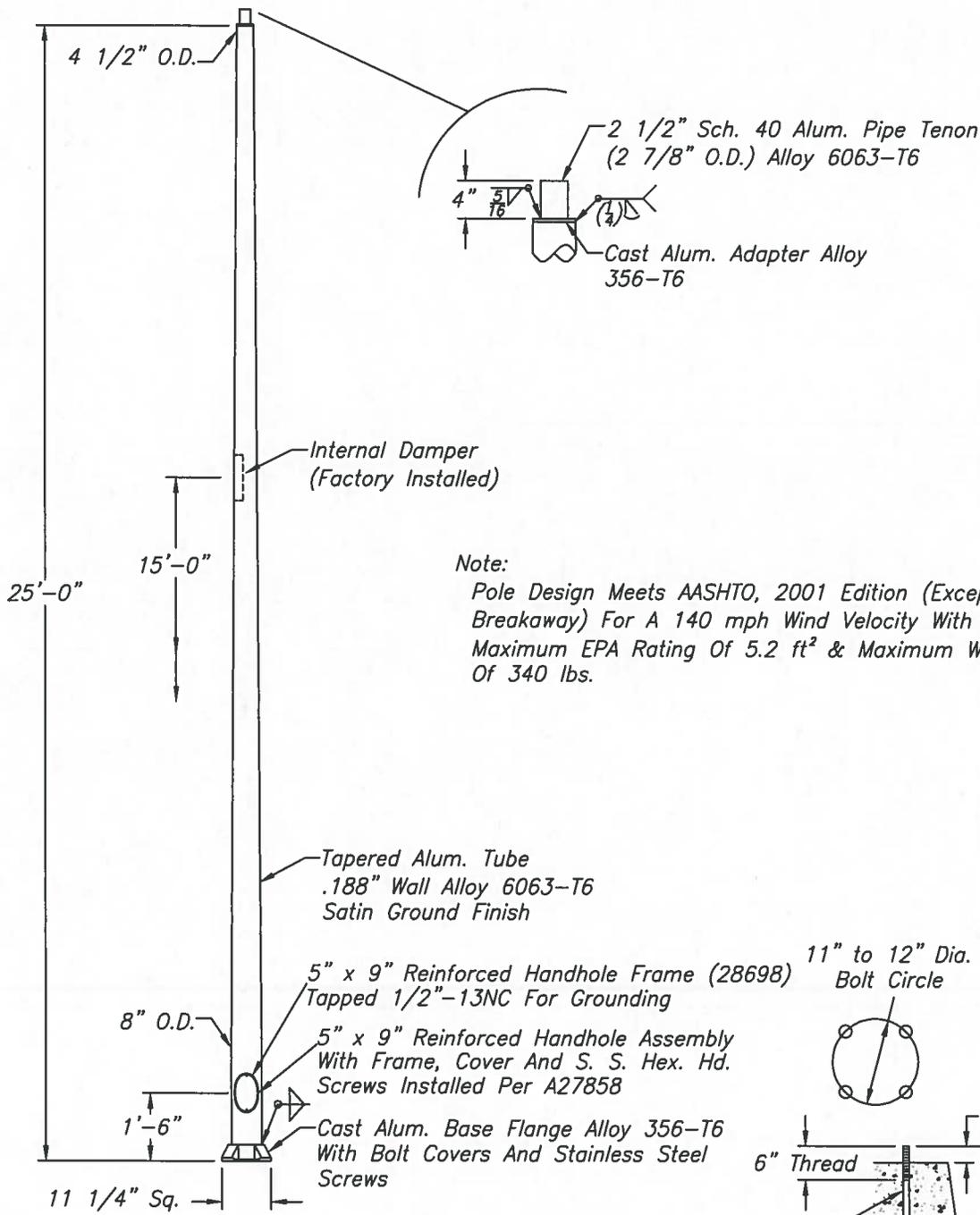
Signature of Affiant

Sworn to and subscribed before me this _____ day of _____, 20_____.

I certify that the affiant is known (or made known) to me to be the identical party he or she claims to be.

Signature and Seal of Notary Public

My Commission Expires: _____



Note:
 Pole Design Meets AASHTO, 2001 Edition (Except Breakaway) For A 140 mph Wind Velocity With A Maximum EPA Rating Of 5.2 ft² & Maximum Weight Of 340 lbs.

- (4) 1"-8NC Galv. Stl. Anchor Bolts, AASHTO M314-90 Grade 55, 10" Of Threaded End Galv. Per ASTM A153.
- (4) 1"-8NC Galv. Stl. Hex. Nuts
- (4) 1" Galv. Stl. Lockwashers
- (4) 1" Galv. Stl. Flatwashers

B28777

WARNING: DO NOT INSTALL LIGHTING POLES WITHOUT LUMINAIRES

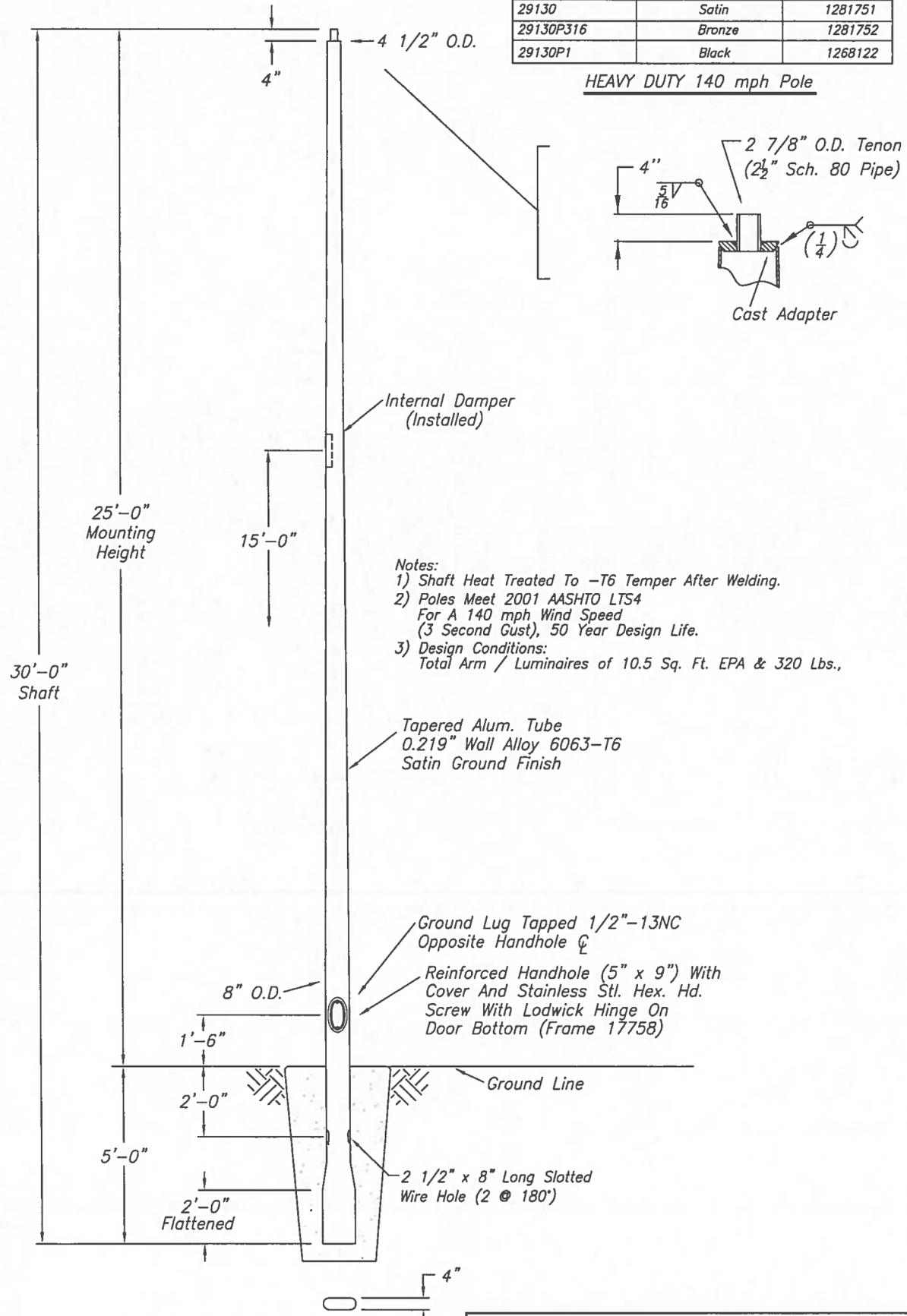
NO.	REVISIONS	DATE
1	Handhole Frame Was Tapped 3/8"-16NC (prs)	10/14

hapco
 Abingdon, Va.

TITLE 25' LIGHTING POLE
 CUSTOMER MS Power
 SCALE 3/2 DATE 11/21/2012
 BY TNB DWG. NO.
 CHK'D B28777

Pole Part#	Color	SC ITEM #
29130	Satin	1281751
29130P316	Bronze	1281752
29130P1	Black	1268122

HEAVY DUTY 140 mph Pole



- Notes:
- 1) Shaft Heat Treated To -T6 Temper After Welding.
 - 2) Poles Meet 2001 AASHTO LTS4 For A 140 mph Wind Speed (3 Second Gust), 50 Year Design Life.
 - 3) Design Conditions: Total Arm / Luminaires of 10.5 Sq. Ft. EPA & 320 Lbs.,

Tapered Alum. Tube
0.219" Wall Alloy 6063-T6
Satin Ground Finish

Ground Lug Tapped 1/2"-13NC
Opposite Handhole ϕ
Reinforced Handhole (5" x 9") With
Cover And Stainless Stl. Hex. Hd.
Screw With Lodwick Hinge On
Door Bottom (Frame 17758)

2 1/2" x 8" Long Slotted
Wire Hole (2 @ 180°)

B29130

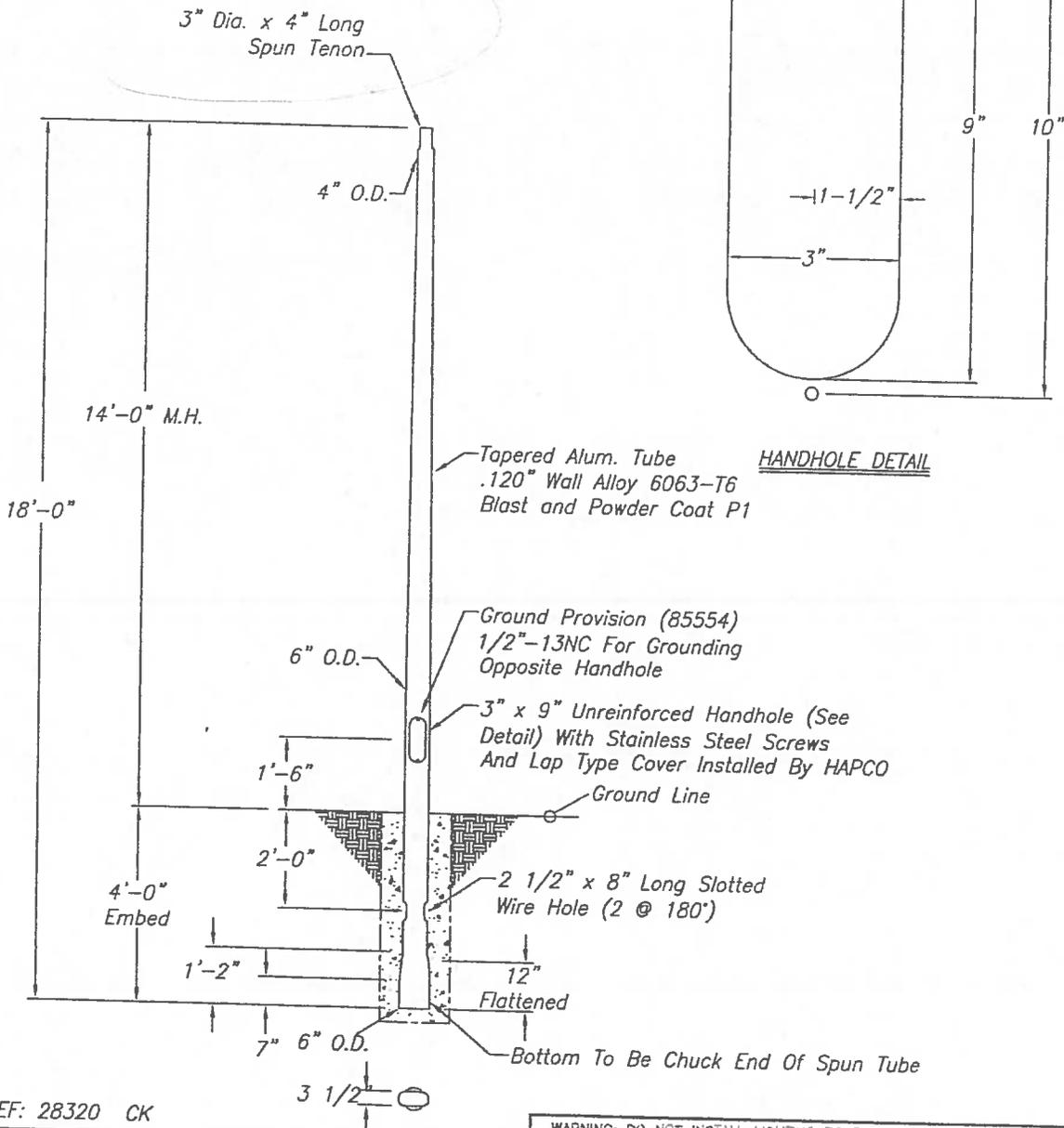
NO.	REVISIONS	DATE
1	Added satin and Bronze SC#'s GM	1/13
2	Added Heavy Duty Note GM	1/13

WARNING: DO NOT INSTALL LIGHTING POLES WITHOUT LUMINAIRES

hapco
Abingdon, Va.

TITLE 25' MH LIGHT POLE 30' O.A.L.	
CUSTOMER Southern Company	
SCALE NTS	DATE 10/1/2012
BY GM	DWG. NO.
CHK'D	B29130

Note:
 Poles Meet 2001 AASHTO LTS4 For 140 mph Wind
 With A 25 Year Design Life And
 With A Maximum Loading Of 2.0 ft2 EPA and
 50 Lbs. Located On Top Of Pole



HANDHOLE DETAIL

B28518

REF: 28320 CK

WARNING: DO NOT INSTALL LIGHTING POLES WITHOUT LUMINAIRES

NO.	REVISIONS	DATE
1	Top Dia. was 3" for 1'-6" Long GM	11/12

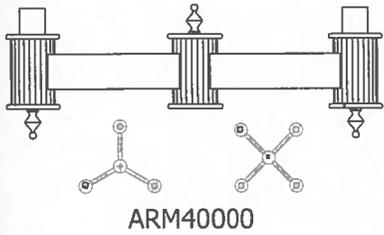
hapco
 Abingdan, Va.

TITLE 14' M.H. EMBED POLE	
CUSTOMER Utility 18' OAL Embed	
SCALE 28	DATE 09/24/2012
BY GM	DWG. NO.
CHK'D	B28518

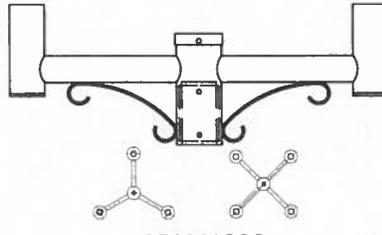
BALDWIN

Decorative Arms

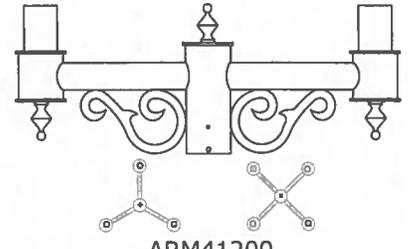
Decorative Lamp Posts - Arms



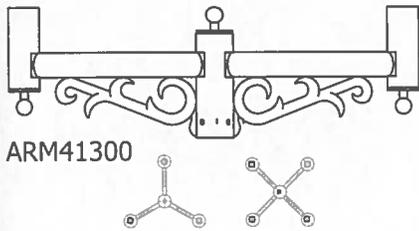
ARM40000



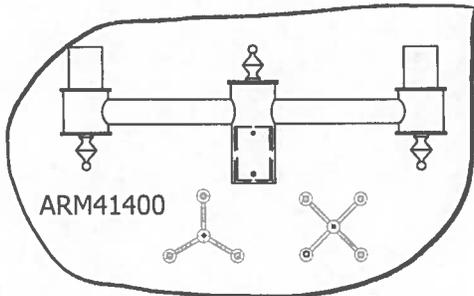
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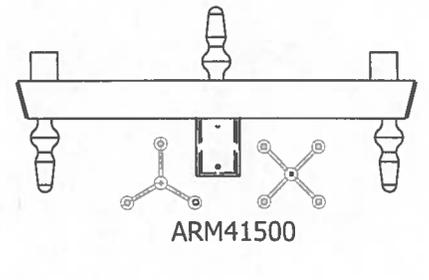
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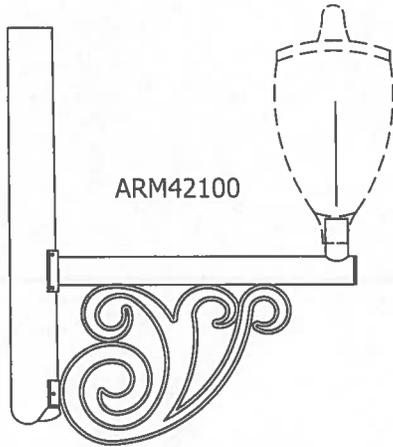
ARM41300



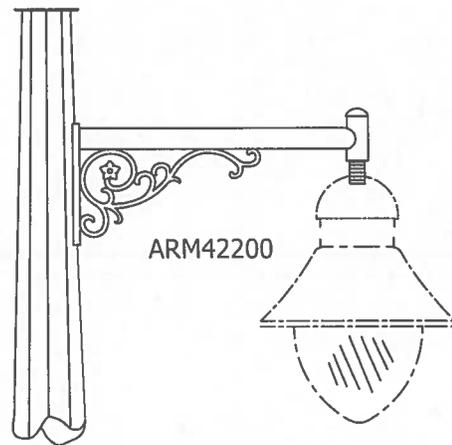
ARM41400



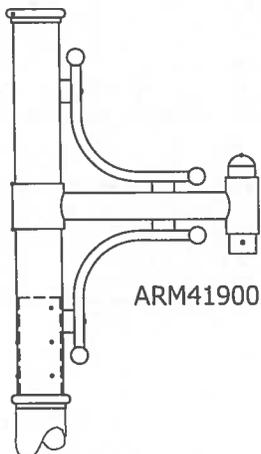
ARM41500



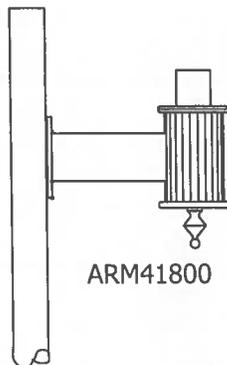
ARM42100



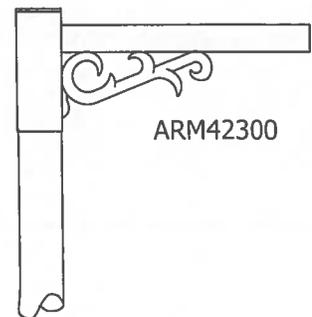
ARM42200



ARM41900



ARM41800



ARM42300

DESCRIPTION

The GAR/GAT/GLC Generation Series LED is a marriage of traditional shapes and contemporary styling. Its superior photometrics offer excellent illumination and uniformity for many of today's applications. Its styling blends well in many settings – historic districts, downtown streetscapes, roadways, residential neighborhoods, as well as city parks and educational campuses. The Generation Series LED sets a new standard for decorative post top luminaires.

Catalog #		Type	
Project			
Comments		Date	
Prepared by			

SPECIFICATION FEATURES

Construction

HOUSING: Heavy-duty cast aluminum housing and removable door. A single quarter turn fastener on the removable door provides tool-less access to wiring compartment. **CAGE ASSEMBLIES:** Cage assembly uprights and medallions are manufactured of heavy-duty cast aluminum and mounted to the exterior of the base housing via four stainless steel fasteners. Cage rings constructed of extruded aluminum and finished to match housing. **TOPS AND FINIALS:** Choose from multiple spun aluminum or acrylic tops and cast aluminum finials for customized fixture style. All solid tops are made of heavy-duty spun aluminum. **TWISTLOCK GLOBE:** The optional twistlock assembly offers ease of maintenance through instant access to both the LED and wiring compartment by twisting the top refractor assembly and lifting it from the mating lock plate.

Optical

REFRACTIVE GLOBE: High efficiency refractive optical systems are precisely designed utilizing a combination of refractive and reflective prisms. Available in Type III or Type V distributions. Lighting grade acrylic ensures long lasting optical clarity and resistance to discoloration.

Electrical

120-277V 50/60Hz operation. 10kV /10kA common- and differential mode surge protection standard. Thermal management transfers heat rapidly away from the LED source for optimal efficiency and light output. Ambient operating temperature from -40°C to 40°C. Standard three-position tunnel type compression terminal block.

Mounting

Base casting slipfits over a standard 3" O.D. tenon and secured via four stainless steel allen head fasteners. 3G vibration tested.

Finish

Cast and spun components finished in a five-stage premium TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Consult the McGraw-Edison Architectural Color brochure for a complete selection of standard colors including black, bronze, grey, white, dark platinum, graphite metallic and hartford green. RAL and custom color matches available.

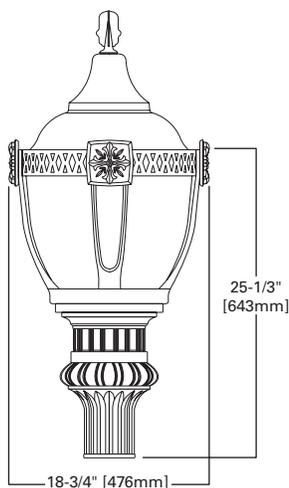
Warranty

Five-year warranty.

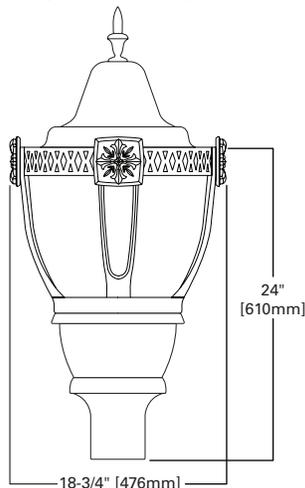


DIMENSIONS

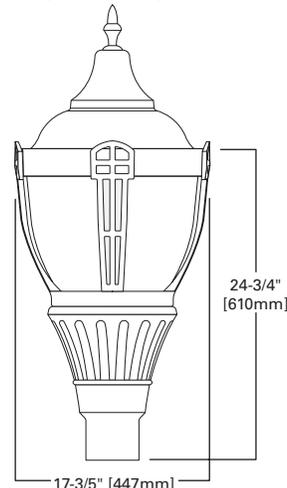
GAR (Acorn Base)



GAT (Architectural Base)



GLC (Classical Base)



GAR/GAT/GLC GENERATION SERIES LED

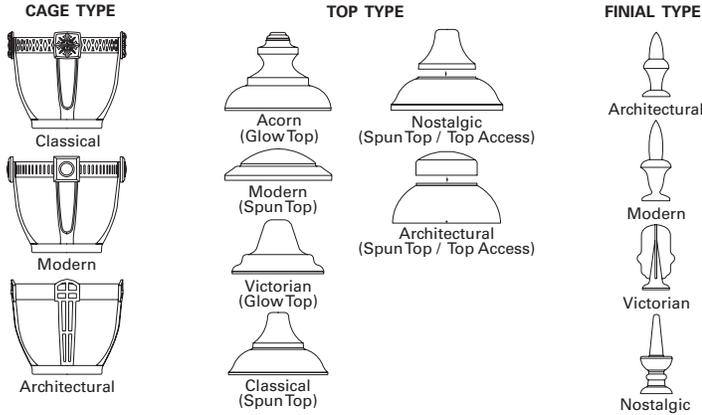
LED

DECORATIVE POST TOP
LUMINAIRE

EPA
Effective Projected Area: (Sq. Ft.)
2.1

SHIPPING DATA
Approximate Net Weight:
50 lbs. (23 kgs.)

CONFIGURATIONS



LUMEN TABLE

Distribution	Correlated Color Temperature (CCT)	Cage Type	Top Type	Total Lumens (Full Brightness)	Luminaire Wattage (Nominal)
Type III	4000K	None	Glow	11,060	99W
Type III	4000K	None	Solid	8,467	99W
Type III	4000K	Any	Glow	7,776	99W
Type III	4000K	Any	Solid	5,778	99W
Type V	4000K	None	Glow	10,571	99W
Type V	4000K	None	Solid	9,365	99W
Type V	4000K	Any	Glow	7,537	99W
Type V	4000K	Any	Solid	6,087	99W

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (36,000 Hours)	Theoretical L70 (Hours)
15°C	>93%	240,000
25°C	>92%	210,000
40°C	>89%	117,000

ORDERING INFORMATION

Sample Number: GAR-080-LED-E1-3-CXA-BK

Product Family ¹	LED Series	Lamp Type	Voltage	Refractor Type	Top Type	Cage Type	Finial Type	Color ²
GAR=Acorn Base GAT=Architectural Base GLC=Classical Base	080-LED=080 Series	LED=Solid State Light Emitting Diodes	E1=Electronic (120-277V)	3=Type III 5=Type V	A=Acorn C=Classical M=Modern V=Victorian N=Nostalgic (Top Access) R=Architectural (Top Access)	A=Architectural C=Classical M=Modern X=None	A=Architectural M=Modern N=Nostalgic V=Victorian X=None	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GN=Hartford Green GM=Graphite Metallic WH=White
Options (Add as Suffix)		Accessories (Order Separately)						
A=Twistlock Refractor B=Decorative Brass Banding ^{3,4} G=Gold Cage and Finial D=Downlight Reflector P=Polycarbonate Refractor R=NEMA Photocontrol Receptacle 2L=Two Circuits SH=Street Side / House Side Switching		MA1252=10kV Surge Module Replacement GLR-080-E1=080 Series LED Series LED Replacement Module with 120-277V Universal Driver GLR-080-E1-2L=080 Series LED Series LED Replacement Module with 120-277V Universal Driver and Bi-Level Switching Capable GLR-080-E1-SH=080 Series LED Series LED Replacement Module with 120-277V Universal Driver and Street Side / House Side Switching Capable						

NOTES:

- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
- Other finish colors available, including a full line of RAL color matches. Consult your lighting representative at Eaton for more information.
- When brass banding is chosen, finial finished in gold.
- Not available with cage.