Andre Dickens	Lisa Y. Gordon	Solomon Caviness IV
Mayor	Chief Operating Officer	ATLDOT Commissioner

Street Light Checklist

➢ **Permit Process**: The streetlight plans must be approved through the permit process or before the streetlights are installed. An electrical permit is required from the Department of Planning and Community Development Office of Buildings before the Street Light Division will inspect the lights.

➢ **Review & Approval Process**: Street Lights plans must be approved by the Street Light Division. To assist with review, photometric plans may be required at the request of the Street Light Engineer. *Street Light approvals are not to be confused with other site plan approval or right-of-way approvals (including SAP approval) Street Light Approval must have Street Lights above the approval.* Street Light locations must follow approved plans. If changes are to be made to the plans, then the changes must be re-approved.

➢ **Location, Layout & Type**: Street Lights must be installed as follows:

- **A minimum of 15 feet from the center of the pole to the center of a tree based on the "streetlight and tree spacing alignment".**
- **A minimum of 6 feet on center (OC) driveway apron flare, parking space, and street intersection to the center of the pole.**
- **A minimum of 3 feet OC from American Disability Act (ADA) ramps flare, benches, fire hydrants, and bicycle ramps.**
- **A minimum of four feet (4') from the back of the curb to the center of the pole except in certain zoning districts (MR, MRC, NC, LW, SPI, Beltlines Overlay) where a minimum of two feet six inches (2'- 6") from the back of the curb to the center of the pole is required. o Layouts must begin with a Cobra head (CH) or Type A light at intersections and driveways depending on City of Atlanta codes and/or nearby existing lights. The layout follows: CH/A C C CH/A unless otherwise noted in City codes or RDWY/PENDANT "C" POST TOP, POST TOP, RDWY/PENDANT "C"**
- **Streetlights shall only be installed on hardscape materials or landscaping of a grass or liriope species. No other landscaping can surround streetlight(s).**
- **Georgia Power Company now installs streetlights on the City of Atlanta's Right-of-Way and every stage of streetlight construction must be inspected by the City of Atlanta's Streetlight Engineer/Inspector. A Pre-construction meeting must be scheduled with the City of Atlanta Streetlight Engineer/Inspector before commencing any streetlight construction in the City.**
- **Metered pedestals may not be required.**

Please take into consideration that street lights cannot be installed within 10 feet of overhead power lines and behind-down guides.

➢ **Anchoring**: All Street Lights must use poles with breakaway bolts (Type A and Type C) or bases (for Cobra head only).

➢ **Wiring**: All wiring must be individually fused and follow the City of Atlanta standards as established by the Department of Public Works, Office of Transportation. ***All wiring must be aluminum.***

➢ **Luminaries**: All lights must be City of Atlanta standard LEDs and Holophane. If specifications are needed please contact the City of Atlanta Street Light Division.

➢ **Meters**: **New street light installations cannot be added to any existing circuit, connection, or metered pedestal.**

➢ **Pre-Construction**: A pre-construction meeting must be scheduled with the Street Light Engineer, Street Light Supervisor, and/or Street Light Inspector. ***Exact details of the manufacturer of the street lights, color, model number, and necessary materials for installation of the lights and type will be discussed. Any changes to the street lights including but not limited to the type of lights, the number of lights, and location must be discussed; no changes will be accepted after this meeting.*** *A calendar-based email must be sent for confirmation of the preconstruction meeting.*

➢ **Inspections**: The Street Light Engineer, Street Light Supervisor, and /or Street Light Inspector must complete ***at least 3 inspections***: (1) Before installation(conduits), (2) during installation (rebar and cages or pre-cast pole bases), and (3) before the lights are connected to the City circuit or Georgia Power. An actual inspection must be completed after the lights are powered. Inspections are scheduled between 9 am and 2 pm Tuesdays and Thursdays only. Schedule inspections 48-72 hours in advance. *A calendar-based email must be sent for confirmation of the scheduled inspection.*

➢ A final wiring diagram and street light plan (if changed from the original approval) must be submitted.

➢ The Street Light Division can be contacted for inspections or questions at the following:

- Stephen A Adesanya: asadesanya@atlantaga.gov 470-542-9656 Office 404-658-7862 (Ext. 15)
- Rawle Gibbs: rgibbs@atlantaga.gov 404-831-3507
- Curtis Williams: cuwilliams@atlantaga.gov 470-829-6145

Inspections will include but may not be limited to:
- Pre-construction site visit/meeting
- Before installation – existing street lights and possible conduit (Conduits cannot be cover before inspection(s) – **No pictures will be accepted.**
- During installation – conduit, positions, rebar, and cages or pre-cast pole bases.
- After installations – to complete the following:
  1. Wiring.
  2. Quantity and types of lights.
  3. Spacing and layout of the lights (Light vs. tree & driveway spacing);
  4. Poles and luminaire fixtures for proper installation, functionality, and type of light.
  5. The service points for location and wiring.
  6. Contractor information must be sent to Stephen A Adesanya.

- **Lack of Inspection or Approval**: Any street lights not inspected and/or approved will not be transferred to the City of Atlanta for energy, maintenance, and/or services. The contractor/developer is responsible for the maintenance, energy, and servicing of lights until the new lights will be inspected and approved for service by the City's Street Light Engineer. *Any street lights not inspected, approved, or powered from the building cannot be taken over by the City.*

The following lights will not be accepted:
1. Sternberg
2. Power from the building
3. Conduit and lights on private property

**Inspections are required for relocating lights. Please contact the Street Light Division to schedule an inspection. A calendar-based email must be sent for confirmation. The wiring procedures must be followed and plans are approved.

Removal of Lights and Transfer: *Any street lights* that need to be removed must be approved by the City of Atlanta Street Light Engineer before removal. **The approval of plans does not authorize removals.** Authorization for removal must be in writing. This will occur with a letter from the Street Light Engineer. **All**-**City of Atlanta Street Lights that are removed must be returned to 124 Claire Drive, SW, even if you are installing new street lights.** The accurate return street light return form must be completed and submitted with accurate information. The form must be signed upon return. Please schedule at least 48 - 72 hours in advance. Equipment/Street Light(s) that is damaged and/or broken will not be accepted. This will require replacements and must be delivered before the lights are accepted or transferred to the City of Atlanta. Please do not remove or relocate any City of Atlanta or Georgia Power lights without the written authorization of notice to proceed (NTP). A schedule for removal, plan for temporary lighting, and replacement schedule will be required. Please contact the Street Light Engineer immediately at 404-658-7862 (office), Stephen A Adesanya: asadesanya@atlantaga.gov 470-542-9656.

Andre Dickens	Lisa Y. Gordon	Solomon Caviness IV
Mayor	Chief Operating Officer	ATLDOT Commissioner

Street Light Wiring Procedures

1. All wiring diagrams, relocations, lighting additions or lighting deletions must be submitted to the Department of Transportations, streetlight division for approval by the Senior Street Light Engineer.

2. Trafflc signal ciruts, lighting circults, and Illuminated signs (on private property) must be totally separate from each other.All lights will be fed directly from Georgia power.

3. All lights must be metered.New light installations can not be added to any existing circuits,connection or metered pedestal.

4.The flrst streetlight on each clrcult from Georgia power vault will be considered the service point (this service point must be metered or non-metered) for that cireult and must have a "fuse block" installed overhead and at least 10 feet high.The breakers will be the protection for fault current on the circuit and should be sized according to the load of the cireult.

5. Each light must be individually fused using disconnect breakaway fuse holders installed inside the base of each pole.

6. Each wiring connect must be made using compresslon connection (Burndy "C" connector, or equivalent) fellowed by a heat shrink protective material to protect the connection from weathering elements.

7.The bolt circlepattern must accommodate the pole type.Please refer to the pole specifications.

8. All lights will be LED. Wattage will be determined by the Department of Transportations,Streetlight division and may be determined during a pre-construction meeting.Streetlights must be reviewed at this meeting. Streetlight Poles must be reviewed at this meeting before installation or placing the order for materials and equipment.

9. Use 2-2" pipe condults. Use "2" steel pipes under driveways if not boring,PVC and rigid condults must be used. HDPE pipe can be used during boring.One line should be in and the order line out untll the end of the line or the las pole installed for that system/coming from the metered pedestal.

10.Wlring must be aluminum;copper will not be accepted.

City of Atlanta Phase I

SL #	Category/ Design	Type	Vendor/ Supplier	Color	Description	Vendor Part# / Reference
1	PENDANT "C"	Fixture	Acuity/ Holophane	Black	FIXTURE, LIGHTING, MEMPHIS 3 MPL3 PENDANT STYLE, GLASS OPTIC, 112 W, LED, 4000K; TYPE III, 17120 LM, 120-277 VAC, WITH ARM FITTER, BLACK	MPL3 P3SS 40K MVOLT TG3 QSM BK DL BADF QSM BK RPD
2	POST TOP "A"	Fixture	Cooper	Black	Cooper Lighting Generation Brighton Acorn Base ACN 101W LED post top, classical cage, classical top, architectural finial, type V, black, 9973 lumens, DALI 120-277V, 4000K	ACN-080-LED-SLTD-U-55-1-4-3-VK-4N7-U9OO7
3	RDWY	Fixture	Solais	Black	Solais EnergyLite HawkLite HLL-17H, 127W, Type B, Black, 120-277V, 17917 lumens, DALI-2 dimming, 4000K	HLL-17H-2RM-740-STD-OA-1P5-70-SBK
4	POST TOP	Pole	Hapco	Black	12' MH City of Atlanta A Pole without Medallion	31412-012-P1
5	PENDANT "C"	Pole	Hapco	Black	25' MH City of Atlanta C Pole without Medallion	38399
6	RDWY	Pole	Hapco	Black	28' Aluminum Black round tapered anchor base with 8' arm (2' rise, 30' MH) 10-11" BC for 1" bolts	19763

A = Pendant (Teardrop)
B = Roadway
C = Post Top (PT)

STREETLIGHT POLE FOUNDATION DETAILS

WEATHERPROOF BREAKAWAY WIRING CONNECTORS (TYP ALL CONDUCTORS)

WEATHERPROOF INLINE FUSES WITH 1.0 AMP FUSE IN EACH PHASE CONDUCTOR

LIGHT POLE WITH BASE COVER

AASHTO APPROVED BREAKAWAY COUPLINGS (TYPICAL FOR 4)

2 PIECE 12 GA ALUMINUM COVER W/ FOUR(4) STAINLESS STEEL SCREWS PAINTED SAME COLOR AS POLE.

3/4" RADIUS ALL EDGES.

ANCHOR BOLTS BY POLE MANUFACTURER. INSTALL WITH A MINIMUM PROJECTION ABOVE TOP CONCRETE OF 1 3/8" OR AS DIRECTED BY THE MANUFACTURE

FINISHED GRADE OR FINISHED SIDEWALK TOP ELEVATION

3" MINIMUM CLEARANCE (TYPICAL)

ELECTRICAL CONDUIT 24" BELOW GRADE – SEE DRAWING FOR SIZE AND NUMBER OF CONDUITS ENTERING BASE

8 #5 VERTICAL BARS EVENLY SPACED IN 18" DIAMETER WITH #4 TIES – 12" OC EXCEPT AT ANCHOR BOLTS – 4" OC TO BELOW BOLTS.

AREA DISTURBED SHALL BE COMPACTED TO 95% STANDARD PROCTOR.

3000 PSI CONCRETE

1 #8 GROUND WIRE ATTACH TO POLE BY APPROVED METHODS.

2'-0"

3" MINIMUM CLEARANCE (TYPICAL)

1/2" SCH 40 PVC 12" BELOW GRADE

1"AFG

CURB

STREET

GROUND CLAMP

3/4" X 10' COPPERCLAD GROUND ROD

48"

3" MINIMUM CLEARANCE (TYPICAL)

12" #57 STONE BELOW FOUNDATION

24" DIA

FIXTURE TYPE 'C' FOUNDATION DETAIL

1
23-018 SCALE: NTS
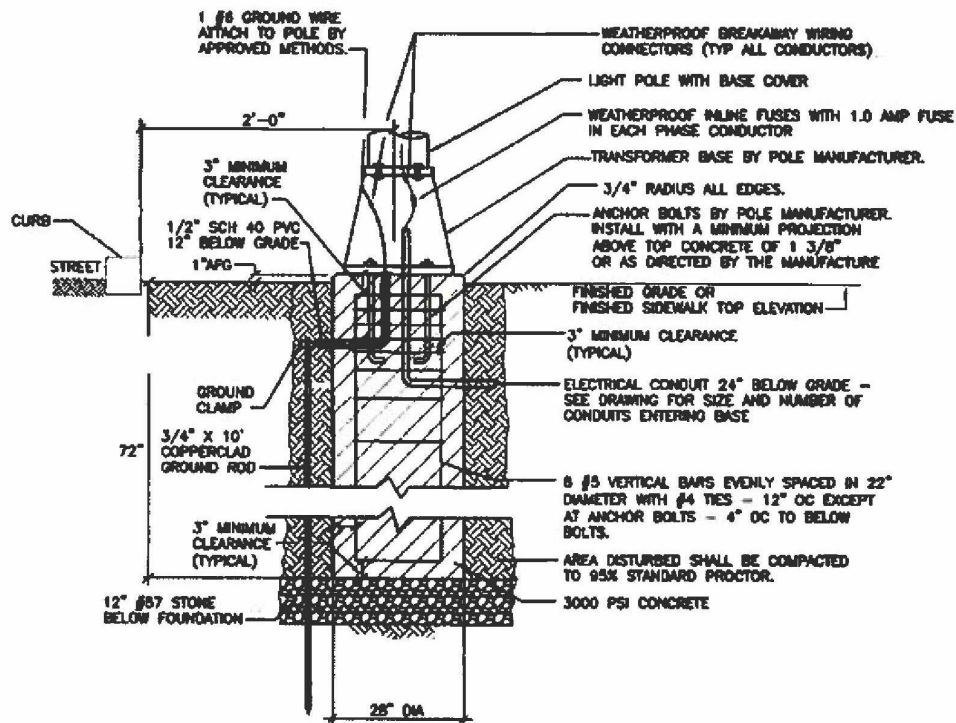
FIXTURE TYPE 'CH' FOUNDATION DETAIL

2
25-015 SCALE: NTS

Callouts (left side):
- 1 #6 GROUND WIRE ATTACH TO POLE BY APPROVED METHODS.
- 2'-0"
- 3" MINIMUM CLEARANCE (TYPICAL)
- 1/2" SCH 40 PVC 12" BELOW GRADE
- 1"AFG
- CURB
- STREET
- GROUND CLAMP
- 3/4" X 10' COPPERCLAD GROUND ROD
- 72"
- 3" MINIMUM CLEARANCE (TYPICAL)
- 12" #87 STONE BELOW FOUNDATION
- 28" DIA

Callouts (right side):
- WEATHERPROOF BREAKAWAY WIRING CONNECTORS (TYP ALL CONDUCTORS)
- LIGHT POLE WITH BASE COVER
- WEATHERPROOF INLINE FUSES WITH 1.0 AMP FUSE IN EACH PHASE CONDUCTOR
- TRANSFORMER BASE BY POLE MANUFACTURER.
- 3/4" RADIUS ALL EDGES.
- ANCHOR BOLTS BY POLE MANUFACTURER. INSTALL WITH A MINIMUM PROJECTION ABOVE TOP CONCRETE OF 1 3/8" OR AS DIRECTED BY THE MANUFACTURE
- FINISHED GRADE OR FINISHED SIDEWALK TOP ELEVATION
- 3" MINIMUM CLEARANCE (TYPICAL)
- ELECTRICAL CONDUIT 24" BELOW GRADE – SEE DRAWING FOR SIZE AND NUMBER OF CONDUITS ENTERING BASE
- 8 #5 VERTICAL BARS EVENLY SPACED IN 22" DIAMETER WITH #4 TIES – 12" OC EXCEPT AT ANCHOR BOLTS – 4" OC TO BELOW BOLTS.
- AREA DISTURBED SHALL BE COMPACTED TO 95% STANDARD PROCTOR.
- 3000 PSI CONCRETE

Design Notes:
1) Shaft Is Heat Treated To –T6 Temper After Welding.
2) Pole Is Designed To Meet AASHTO 2001 (LTS–4 Edition),
   (Excluding Breakaway) For A 90 mph (3 second gust)
   Wind Velocity When Supporting The Following:
   • Maximum Luminaire Size: 2.37 ft² EPA & 66 lbs.
   • Maximum Banner Breakaway Banner Size: 3'–1" x 8'–3"
     Centered At 19'–10 1/2"
3) Banner Arms Designed To Break Away At 60 MPH. Stainless Steel
   Internal Safety Cable Prevents Arm From Flying Away From Pole.

4'–3"
5"
2" NPS Slipfitter
Tapered Alum. Tube
.188" Wall Alloy 6063–T6
R3'–6"
4 1/2" O.D.
4'–10"
5.36" O.D.
1'–0"
1/2"–13NC Stainless Steel
Screws (2 Rows, 3 @ 120°)

3" Sch. 40 Alum. Pipe Tenon
(3 1/2" O.D.) Alloy 6063–T6
8"
6" O.D. x 1/2" Thick Alum
Plate Alloy 6063–T6
Pole Top Detail

8'–3"

1" Sch. 80 Pipe Breakaway Banner
Arm Alloy 6063–T6 With 2" Dia.
Alum. Removable Ball
3'–1"

21'–4"
2" O.D. Alum. Hub Threaded
1 1/4"–7UNC Welded To Pole

Breakaway Couplings
per A85935
7"
Pole Base Detail

Tapered Alum. Fluted Tube
.188" Wall Alloy 6063–T6
16 Flutes at 0.14"/ft Taper

8" O.D.
One Piece Cast Alum. Decorative Structural
Base (30161) Alloy 356–T6 With Door And
Stainless Steel Screws
11" to 16" Dia.
Bolt Circle

2'–5 1/8"
Ground Lug Welded Inside Opposite
Base Door

1 1/2" ±1/8"
1/8" Thick x 8" x 20 1/8" I.D.
Coupling Cover
6" Thread
3'–0"

20" Dia.
(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"

Ref: 32429

B38309

NO.	REVISIONS	DATE

hapco
Abingdon, Va.

TITLE YORK SERIES LIGHTING POLE
CUSTOMER GA POWER
SCALE 32
DATE 09/05/2017
BY TNB
CHK'D
DWG. NO. B38309

8'-0"

8"

2" NPS Slipfitter

2'

Alum. Pole Cap With
Stainless Steel Screws

6"

2'-6"
Rise

30'-0"
Mounting
Height

4 1/2" O.D.

Tapered Alum. Tube (4" O.D.)
.125" Wall Alloy 6063-T6

2 1/2" x 5 1/8" Elliptical Section

Wire Hole With 1" I.D. Rubber Grommet

Extruded Alum. Pole Plate Alloy 6063-T6
With 1/2"-13NC Stainless Stl. Hardware
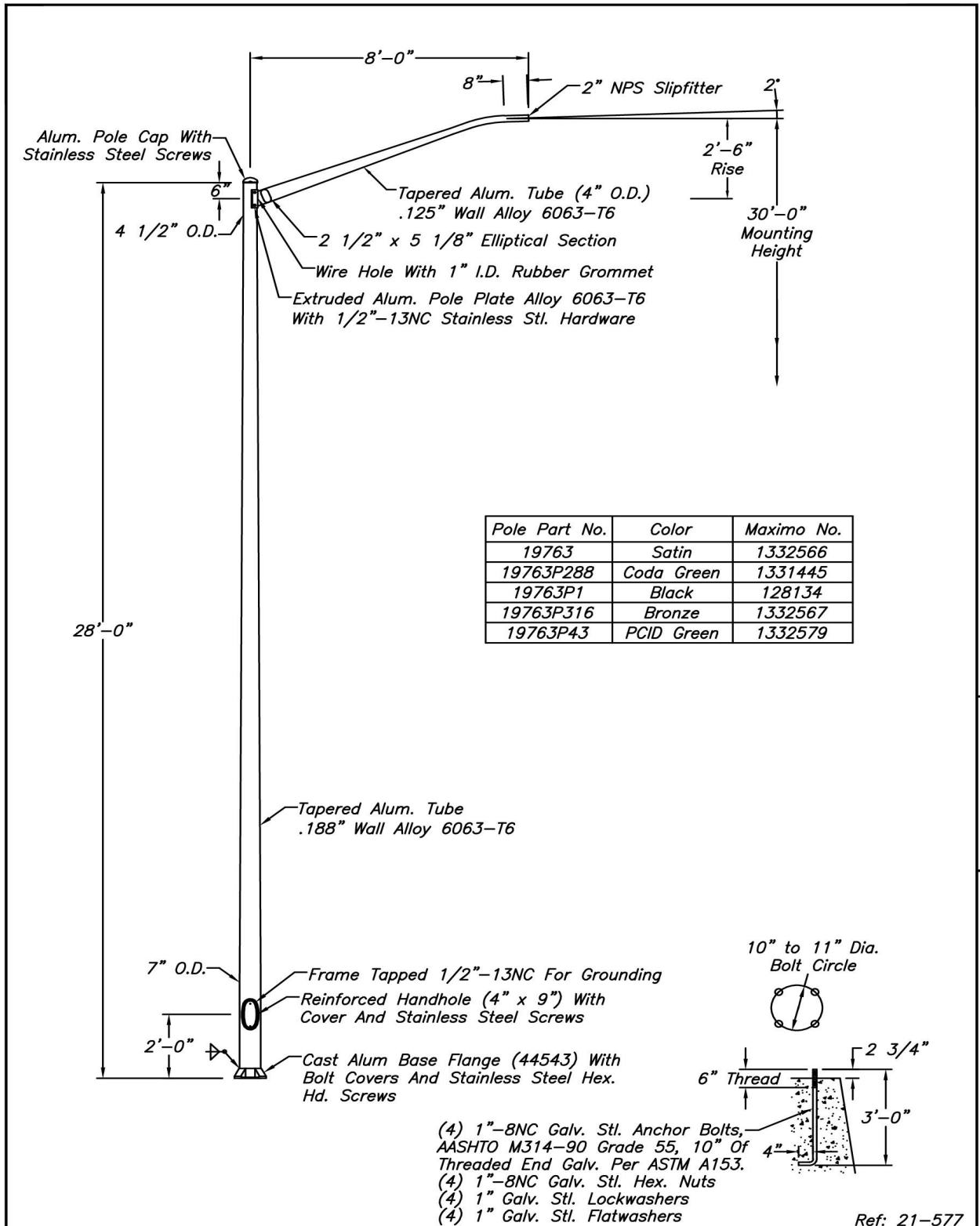
Pole Part No.	Color	Maximo No.
19763	Satin	1332566
19763P288	Coda Green	1331445
19763P1	Black	128134
19763P316	Bronze	1332567
19763P43	PCID Green	1332579

28'-0"

Tapered Alum. Tube
.188" Wall Alloy 6063-T6

10" to 11" Dia.
Bolt Circle

7" O.D.

Frame Tapped 1/2"-13NC For Grounding

Reinforced Handhole (4" x 9") With
Cover And Stainless Steel Screws

2'-0"

Cast Alum Base Flange (44543) With
Bolt Covers And Stainless Steel Hex.
Hd. Screws

2 3/4"

6" Thread

3'-0"

(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

4"

Ref: 21-577

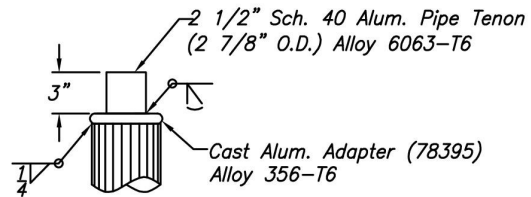**WARNING: DO NOT INSTALL LIGHTING POLES WITHOUT LUMINAIRES**

B19763

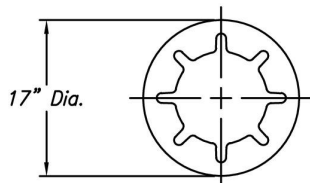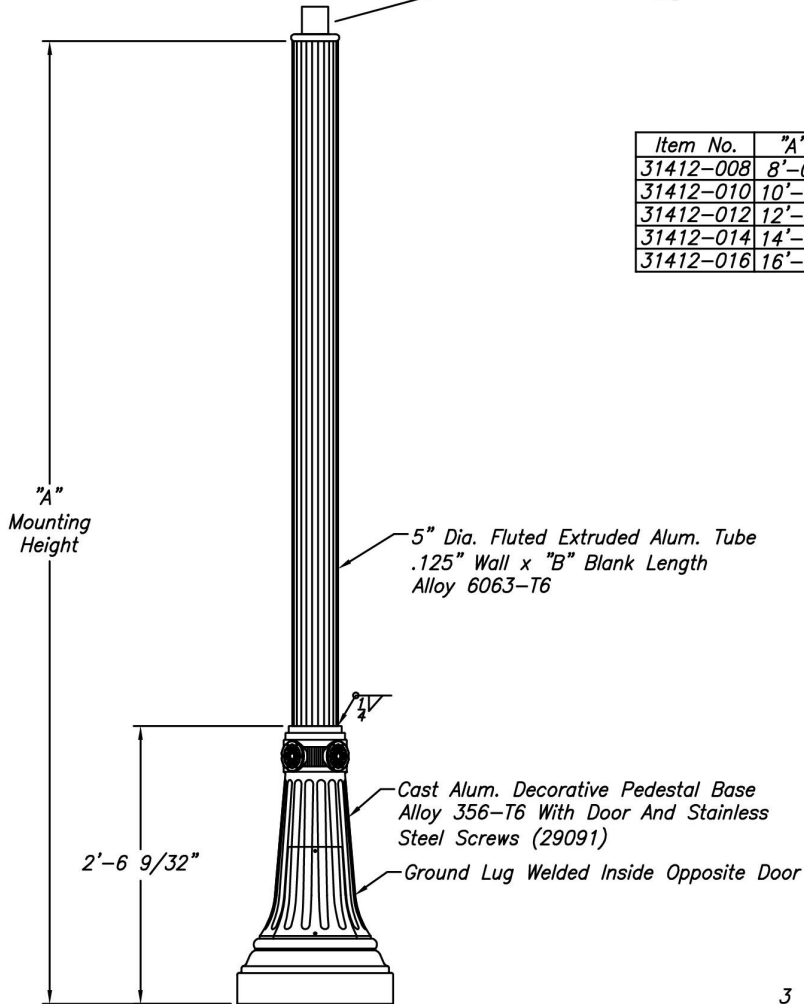| NO.	REVISIONS	DATE
1	Handhole Was At 1'-6" (tnb)	1/12
2	HH Frame Was 66322 & GL Was 85554 (tnb)	5/17

hapco
Abingdon, Va.

TITLE 30' LIGHTING POLE

CUSTOMER GEORGIA POWER

SCALE 32   DATE 10/19/2010

BY TNB   DWG. NO.

CHK'D   B19763

2 1/2" Sch. 40 Alum. Pipe Tenon
(2 7/8" O.D.) Alloy 6063-T6

3"

Cast Alum. Adapter (78395)
Alloy 356-T6

1/4

Item No.	"A"	"B"
31412-008	8'-0"	5'-6"
31412-010	10'-0"	7'-6"
31412-012	12'-0"	9'-6"
31412-014	14'-0"	11'-6"
31412-016	16'-0"	13'-6"

"A"
Mounting
Height

5" Dia. Fluted Extruded Alum. Tube
.125" Wall x "B" Blank Length
Alloy 6063-T6

1/4

Cast Alum. Decorative Pedestal Base
Alloy 356-T6 With Door And Stainless
Steel Screws (29091)

Ground Lug Welded Inside Opposite Door

2'-6 9/32"

12" Dia.
Bolt Circle

3 1/2" Thread

2"

17"

3"

17" Dia.
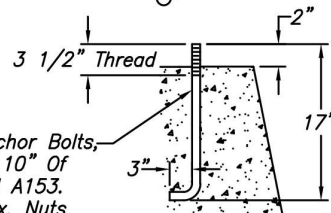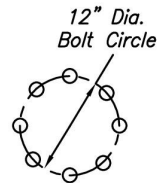
(4) 3/4"-10NC Galv. Stl. Anchor Bolts,
AASHTO M314-90 Grade 55, 10" Of
Threaded End Galv. Per ASTM A153.
(4) 3/4"-10NC Galv. Stl. Hex. Nuts
(4) 3/4" Galv. Stl. Lockwashers
(4) 3/4" Galv. Stl. Flatwashers

B31412

NO.	REVISIONS	DATE
1	Added -016 (tnb)	6/14

TITLE YORK SERIES LIGHT POLES

CUSTOMER

hapco

Abingdon, Va.

SCALE 12   DATE 02/13/2014

BY TNB   DWG. NO.

CHK'D   B31412

②
1"−8NC Galv. Stl. Hex. Nut
(40449)

①
1"−8NC−2A x 4" Long
Galv. Stl. Studbolt
(80391−001)

④
2" Dia. Galv. Stl. Flatwasher
(27177)

③
1" Galv Stl. Lockwasher
(40447)

UP↑
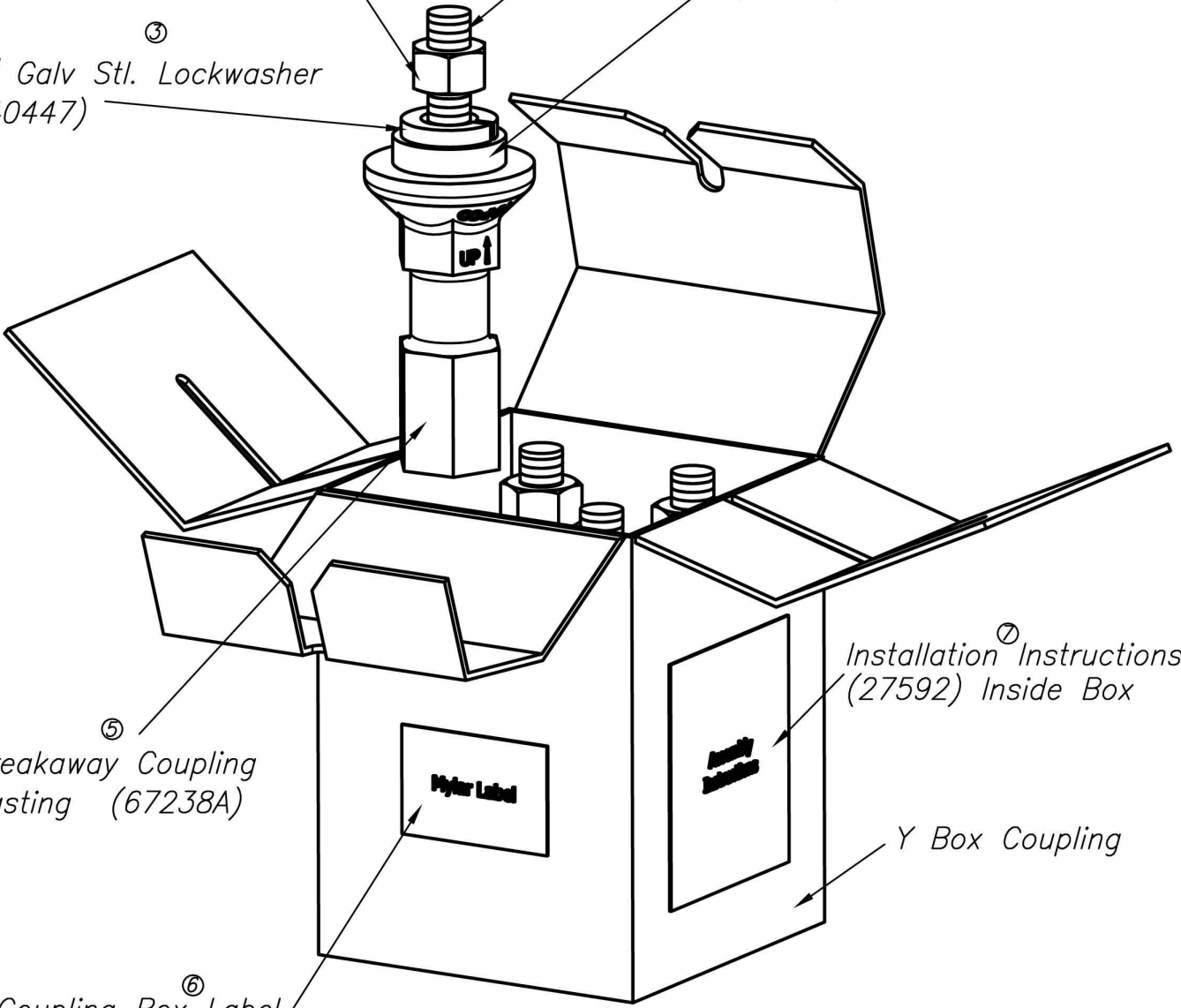
Installation ⑦ Instructions
(27592) Inside Box

⑤
Breakaway Coupling
Casting (67238A)

Mylar Label

Y Box Coupling

⑥
Coupling Box Label
(27591)

NO.	REVISIONS	DATE
1	flipped couplings right−side−up	4/12
2	moved hardware to top	5/12

hapco

Abingdon, Va.

TITLE
COUPLING KIT

CUSTOMER

SCALE	DATE	3/19/2012
BY CRH	DWG. NO.	
CHK'D		A27593
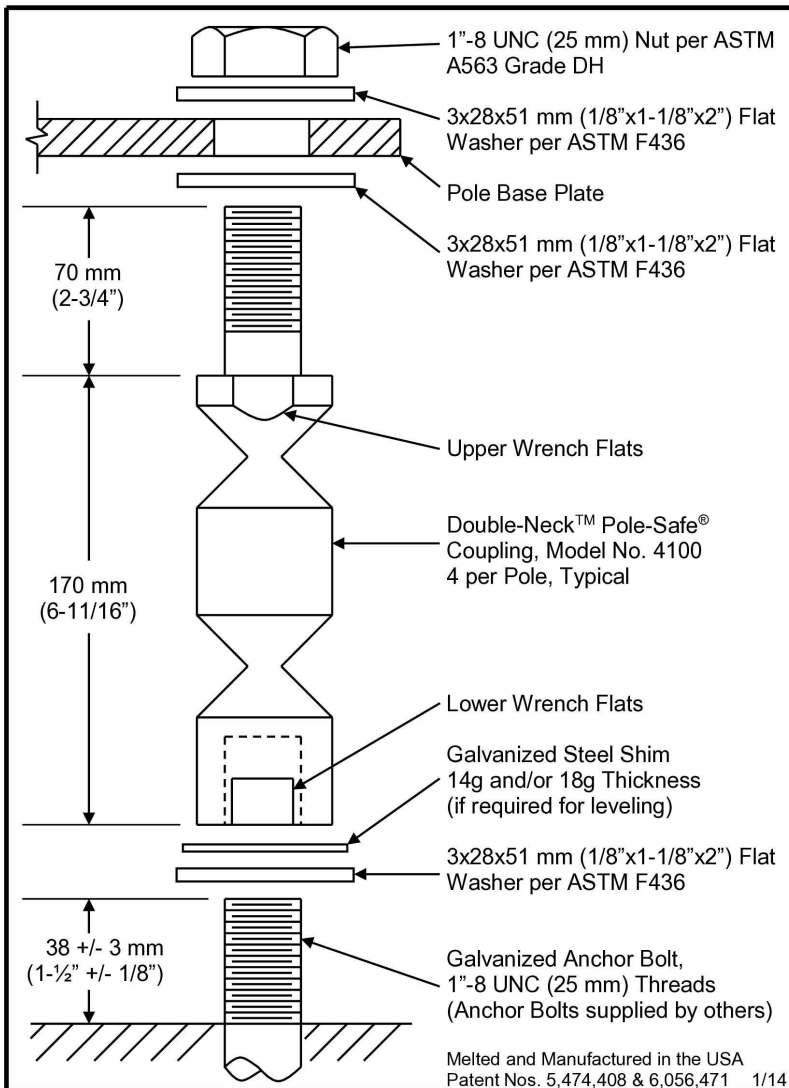
SPECIFICATIONS

Performance Criteria:

1. Double-Neck™ Pole-Safe® conforms to AASHTO "Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals."

2. Double-Neck™ Pole-Safe® has been crash-tested and FHWA approved in accordance with the requirements of NCHRP Report 350, "Recommended Procedures for the Safety Performance Evaluation of Highway Features."

3. Maximum Allowable Pole Mass = 450 kg (992 lb.) (total, including fixtures).

Physical Properties per Coupling:

1. Ultimate Tensile Strength = 221.5 kN (49.8 kips), minimum.

2. Tensile Yield Strength = 192.0 kN (43.2 kips), minimum.

3. Ultimate Restrained Shear Strength = 16.9 kN (3.8 kips), minimum.

4. Ultimate Restrained Shear Strength = 24.4 kN (5.5 kips), maximum.

Corrosion Protection:

1. All Double-Neck™ Pole-Safe® couplings, nuts, bolts, and washers are galvanized after fabrication in accordance with ASTM A153. All leveling shims are galvanized after fabrication in accordance with ASTM A653.

Diagram Labels

- 1"-8 UNC (25 mm) Nut per ASTM A563 Grade DH
- 3x28x51 mm (1/8"x1-1/8"x2") Flat Washer per ASTM F436
- Pole Base Plate
- 3x28x51 mm (1/8"x1-1/8"x2") Flat Washer per ASTM F436
- 70 mm (2-3/4")
- Upper Wrench Flats
- Double-Neck™ Pole-Safe® Coupling, Model No. 4100 4 per Pole, Typical
- 170 mm (6-11/16")
- Lower Wrench Flats
- Galvanized Steel Shim 14g and/or 18g Thickness (if required for leveling)
- 3x28x51 mm (1/8"x1-1/8"x2") Flat Washer per ASTM F436
- 38 +/- 3 mm (1-½" +/- 1/8")
- Galvanized Anchor Bolt, 1"-8 UNC (25 mm) Threads (Anchor Bolts supplied by others)

Melted and Manufactured in the USA
Patent Nos. 5,474,408 & 6,056,471   1/14

Pole-Safe® Model No. 4100
Breakaway Support System for Light Poles

TRANSPO®
INDUSTRIES, Inc.
The Smart Solutions Company

20 Jones Street
New Rochelle, NY 10801
914-636-1000
www.transpo.com

TRANSPO®
INDUSTRIES, Inc.
The Smart Solutions Company

Pole-Safe® Model No. 4100
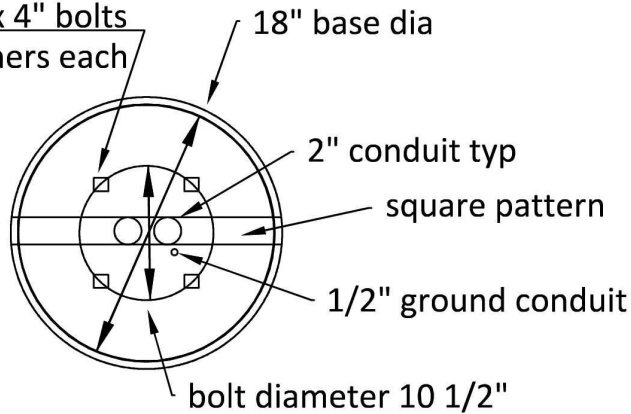## Breakaway Support System for Light Poles

INSTALLATION INSTRUCTIONS

NOTE: Proper Installation is essential for the Pole-Safe Breakaway Support System to function correctly as designed.
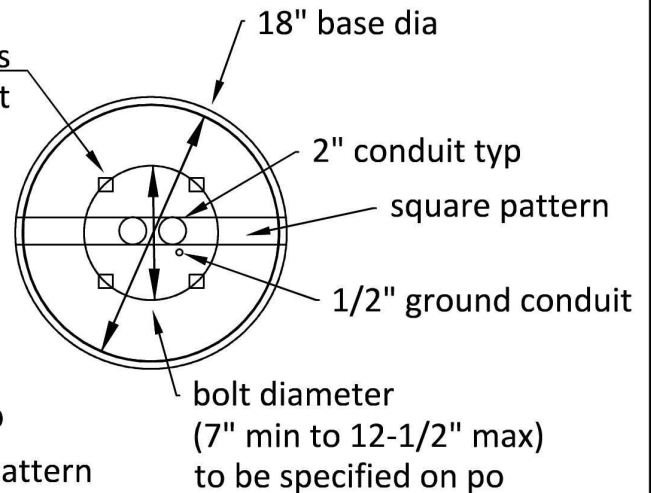
1. Surface of foundation around anchor bolts must be smooth, flat and free of debris.

2. <u>Existing anchor bolts MUST be sized</u> to the proper projection height as shown on the reverse side of these instructions. Then, anchor bolts shall be cleaned, and if necessary, coated with cold galvanizing material prior to installing Pole-Safe couplings.

3. Install lower flat washers, and thread Pole-Safe couplings on to anchor bolts.

4. If needed, shims are provided for leveling of the pole base plate, and may be installed at the base of the coupling(s). <u>No more than 2 shims</u> shall be installed on any one coupling. For larger adjustments that may be required, install <u>no more than one</u> additional flat washer under the base plate, on the top shank of the coupling(s).

5. <u>Use lower wrench flats</u> to tighten Pole-Safe couplings on to the anchor bolts. Secure couplings as tight as possible using conventional wrenches. <u>Do not use a pipe wrench.</u> Couplings must be seated squarely on the washers, and washers must be seated uniformly on top of the foundation. If necessary, remove coupling and reduce the anchor bolt projection height to allow proper seating of the couplings.

6. Install a flat washer on top of each Pole-Safe coupling, and set the pole with base plate on top of the couplings.

7. Install a flat washer and nut on to each Pole-Safe coupling extended through the pole base plate. If pole is not plumb, install shims and/or washers for proper leveling as described in Step 4 above.

8. Tighten each nut on to pole base plate. <u>Pole-Safe couplings must be held with an additional wrench on the upper wrench flats</u> to prevent an induced torque stress across the necked portion of the couplings. Nuts shall be tightened using the turn-of-nut method in accordance with American Institute of Steel Construction (AISC) procedures (for ASTM A325 and A490 anchor bolts, 1/3 rotation past "snug tight").

4 each 1" x 40" x 4" bolts
2 nuts 2 flat washers each

18" base dia

2" conduit typ

square pattern

1/2" ground conduit

bolt diameter 10 1/2"

3/4" x 24" x 3" AB A307 R HDG Bolts
2 nuts 2 flat washers per bolt

18" base dia

2" conduit typ

square pattern

1/2" ground conduit

bolt diameter
(7" min to 12-1/2" max)
to be specified on po

4 each 3/4" x 40" x 4" bolts
2 nuts 2 flat washers each

18" base dia

2" conduit typ

square pattern

1/2" ground conduit

bolt diameter 10 1/2"
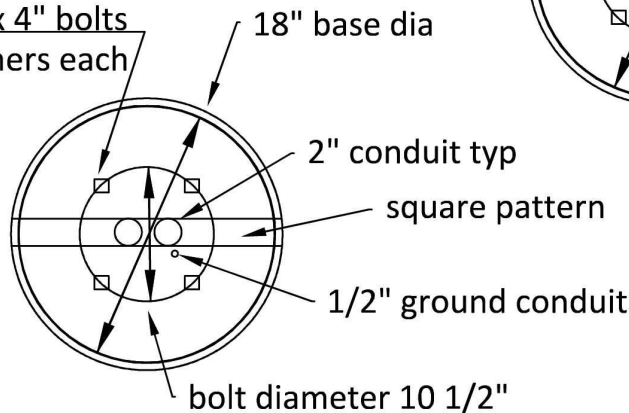
Note:
1. Verify bolt circle needs
    before ordering.

1" x 40" x 4" AB A307 RT HDG bolts
2 nuts 2 flat washers per bolt

18" base dia

2" conduit typ

square pattern

1/2" ground conduit

bolt diameter 12 1/2"
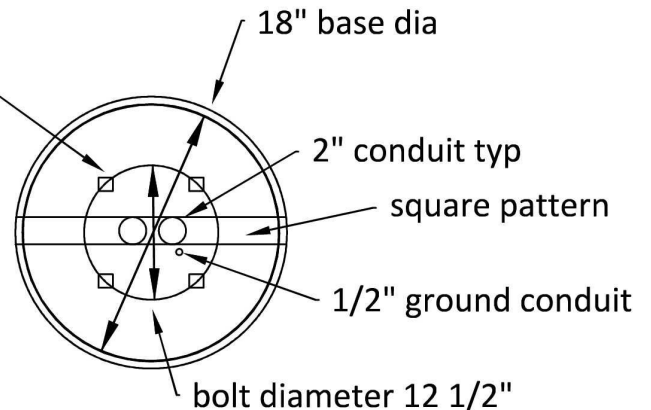
Bolt Circle Diameter	Bolt Size	Base Length	
		60"	96"
12.5	1"	Y	Y
10.5	1"	Y	Y
10.5	3/4"		Y
Variable	1"	Y	Y

BOLT SIZE & BOLT CIRCLE COMBOS

SIZE	BOLT CIRCLE DIA
3/4"	10.5"
1"	10.5"
1"	12.5"
3/4"	7" to 12.5"*

*Specify bolt circle when ordering

Typical
18" Dia.

(4) Bolts
3/4" or 1"

#6 Copper (UCUW-4)
ground lead to grounding
nut on standard

1/2" PVC
ground
cable
conduit

2" PVC
power cable
conduits
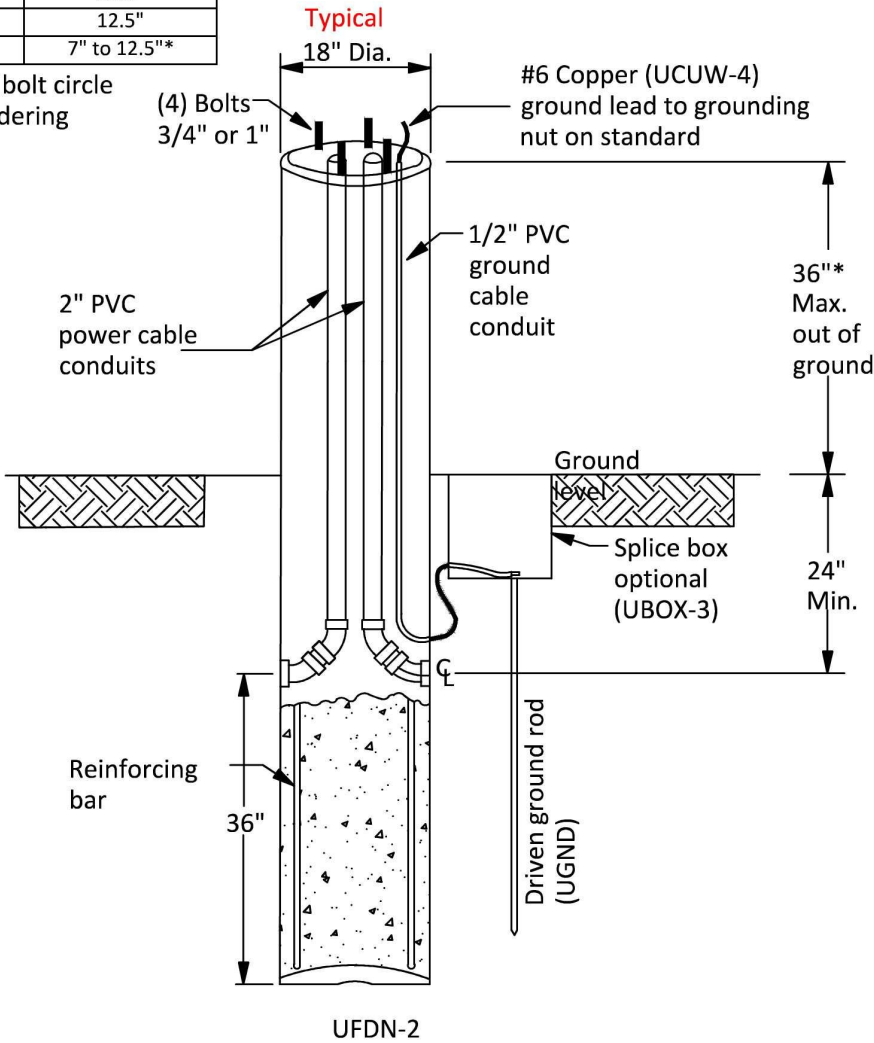
*1. For use in areas accesible
to traffic. - Base must be at a
minimum height of 24" above
ground line.

36"*
Max.
out of
ground

Ground
level

Splice box
optional
(UBOX-3)

24"
Min.

Reinforcing
bar

36"

Driven ground rod
(UGND)

UFDN-2

NOTES:
1. See Bill of Material for item numbers for standard bolt circle patterns. Otherwise,
   specify bolt circle when ordering for non-standard designs.
2. 4000 PSI concrete.

SUBJECT: **UNDERGROUND DISTRIBUTION**

DETAIL: LIGHTING - POLE FOUNDATION FOR ANCHOR BASE LIGHTING POLE - PRECAST CONCRETE 18" D x 96" H

Date _____

REVISED 06-15-14, 04-05-16, 04-11-18, 07-13-20

Southern Company

A- SUI21002

SUI-21.002

BOLT SIZE & BOLT CIRCLE COMBOS

SIZE	BOLT CIRCLE DIA
1"	10.5"
1"	12.5"
1"	To be specified on order

*Specify bolt circle
when ordering

Typical
18" Dia.

(4) Bolts
3/4" or 1"

#6 Copper (UCUW-4)
ground lead to grounding
nut on standard

4" max   Ground
level

30"

Splice box
optional
(UBOX-3)

24"
Min.

Reinforcing
bar

30"

Driven ground rod
(UGND)
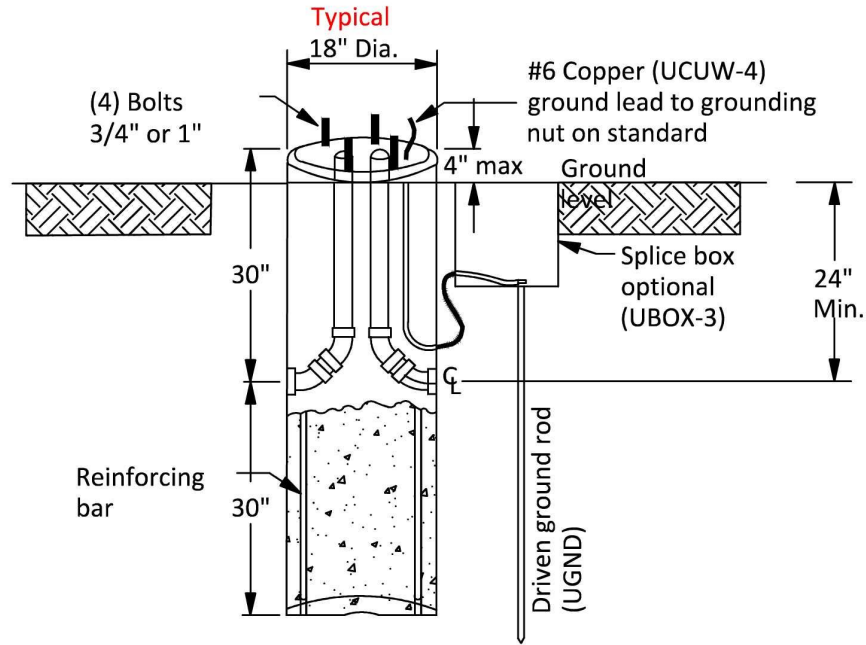
Fork lift
pick up hole
(Min. 41" depth)

UFDN-2

*For use in areas not
accessible to traffic or when
used in conjuction with a break
away base. Must not be more
than 4" above ground line.

NOTES:
1. See Bill of Material for item numbers for standard bolt circle patterns. Otherwise,
   specify bolt circle when ordering for non-standard designs.
2. 4000 PSI concrete.

SUBJECT   UNDERGROUND DISTRIBUTION

DETAIL   LIGHTING - POLE FOUNDATION FOR ANCHOR BASE LIGHTING POLE - PRECAST CONCRETE 18"D x 60" H

Date 04-11-18   REVISED 07-13-20   Southern Company   A- SUI21003

SUI-21.003

ENERGYLITE

PROJECT	TYPE
SPECIFICATION	

HawkLite™ HLL

ROADWAY LED LUMINAIRE

QUICK FACTS

CONSTRUCTION
- Die-cast, low copper aluminum alloy housing for optimal thermal performance and exceptional corrosion resistance
- 100% recycled aluminum

FINISH
- TGIC polyester super durable powder coating with superior gloss, color retention, and weather resistance
- Standard finishes provided at 3 mil nominal thickness with salt-spray tested to 3,000 hours as per ASTM B117
- For marine grade finish, consult factory. Provided at 5 mil nominal thickness with salt-spray tested to 5,000 hours as per ASTM B117

CONTROLS
- 0-10 V dimming standard
- DALI-2 dimming option available
- Receptacle options:
  - ANSI C136.41 3-pin
  - ANSI C136.41 7-pin (for DALI-2 or dimming)
    - Zhaga Book 18 (for next generation ambient light/motion sensing)

OPTICS + PERFORMANCE
- Up to 153 lumens per watt
- 14,000-30,000 lumen packages (93-253W)
- 5 customized distributions available
  - Type II Roadway Medium
  - Type III Roadway Medium
  - Type IV Wide Short
  - Type V Square Short
- Multiple shielding options available

ELECTRICAL
- 120 - 277V Standard; 277-480V option available
- PF>0.90, THD<20%
- Parallel surge protection: enhanced 10kV standard, extreme 20kV optional (ANSI C136.2-2015)
- Heavy-duty UL1059 terminal block rated for 600V/85A and capable of terminating #2 to #14 AWG wire
- For series surge protection, consult factory
- Rated for operation -40°C to 40°C
- For 50°C option, consult factory

MOUNTING
- Integral die cast mounting pipe stop
- Slip fitter with ± 5° tilt adjustment in 2½° steps
- Adjustable for 1½" to 2½" O.D. tenon; Recommended with 2 ⅜" O.D. with >6" length tenon
- Wildlife shield and leveling bubble standard

LISTINGS
- IDA Dark Sky listed ≤3000K
- IP66 rated optical chamber
- 3G Vibration rated (ANSI C136.31)
- DLC + DLC Premium listings
- UL listed for wet locations (E#487976)
- Zhaga D4i listed
- NEMA and distribution labeling standard
- BAA Compliance available; †Consult factory to confirm specific fixture code is compliant if this is a requirement
- **Designed and assembled in U.S.A.**

WARRANTY
- 10 year warranty

DIMENSIONS

20.05"
4.31"
5.06"
10.30"
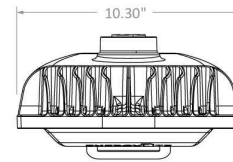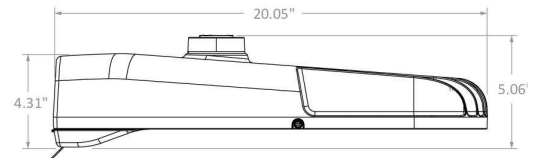
EPA: 0.43 sq. ft.
WEIGHT: 13.9 lbs.

E# 487976

ORDERING INFORMATION

Example: HLL/15H/2RM/740/STD/10/1PS/00/SGY/HS-ZT1

Fixture	Distribution	CRI + CCT	Voltage	Controls	Surge	Photocell Receptacle	Finish	Options + Accessories
HLL	2RM[1] - Type II Roadway Medium	750 - 70+ CRI, 5000K	STD[1] - 120-277V	10[1] - 0-10 V	1PS[1] - 10kV 5kA, 120-277V	00[1] - none	SGY* - Grey (RAL7038)	(Field Installed)
	3RM[1] - Type III Roadway Medium	740[1] - 70+ CRI, 4000K	HVL - 277-480V	DA - DALI-2		30 - 3-pin	MGY[2]* - Marine Grade	HSS[34] - House-side Shield
	4WS[14] - Type IV Wide Short	730[1] - 70+ CRI, 3000K			2PS* - 20kV 10kA, 120-277V	70 - 7 pin	Grey (RAL7038)	CSS[3] - Cul-de-sac Shield
	5QS[1] - Type V Square Short	722 - 70+ CRI, 2200K				0Z - Zhaga		FSS[3] - Front-side Shield
					2PH* - 20kV 10kA, 277-480V	3Z - 3-pin + Zhaga	* Additional finish colors available upon request	SS[56] - Scoop Shield
		* 80 + 90 CRI, as well as additional color temperatures, are available upon request				7Z - 7-pin + Zhaga		(Factory Installed) FAO - Field Adjustable Output 6P - 6 ft. Pigtail NL - No Labeling

Package

- 14H[1] - 14,000 lm; 93W
- 15H[1] - 15,000 lm; 103W
- 16H[1] - 16,000 lm; 113W
- 18H[1] - 18,000 lm; 123W
- 19H[1] - 19,000 lm; 133W
- 20H[1] - 20,000 lm; 143W
- 21H[1] - 21,000 lm; 151W
- 22H[1] - 22,000 lm; 162W
- 23H[1] - 23,000 lm; 171W
- 24H[1] - 24,000 lm; 181W
- 25H[1] - 25,000 lm; 193W
- 26H[1] - 26,000 lm; 213W
- 27H[1] - 27,000 lm; 223W
- 28H[1] - 28,000 lm; 233W
- 29H[1] - 29,000 lm; 243W
- 30H[1] - 30,000 lm; 253W

ZT1 - 0-10 V Zhaga Ambient Light Control (ALC)
ZT3 - 0-10 V Zhaga IR + ALC
ZT4 - 0-10 V Zhaga Occupany + IR + ALC

SC - Shorting Cap
PCL01 - 120-277V Photocell, 640J, IP65
PCL02 - 120-277V Photocell, 1280J, IP66
PCL03 - 347-480V Photocell, 1280J, IP66

* Consult factory for lead time and availability.
[1] Standard offering. Consult factory for lead and availability for other options.
[2] Marine grade finish options available. Consult Factory.
[3] Flat-black, injection molded plastic resin, tool-less, clip-on discrete shield.
[4] HSS not compatible with 4WS optics, instead use SS.

ENERGYLITE

HawkLite™ HLL

ROADWAY LED LUMINAIRE

PERFORMANCE DATA

Performance Package	Wattage Label	Drive Current	Color Temp. (CCT)	Input Power (Watts)	TYPE II ROADWAY MED AT 70 CRI Lumens	Efficacy (lm/W)	B	U	G	TYPE III ROADWAY MED AT 70 CRI Lumens	Efficacy (lm/W)	B	U	G	TYPE IV WIDE SHORT AT 70 CRI Lumens	Efficacy (lm/W)	B	U	G	TYPE V SQUARE SHORT AT 70 CRI Lumens	Efficacy (lm/W)	B	U	G
14H	90	525mA	5000K	93.2	14,186	152	2	0	2	14,250	153	2	0	2	13,418	144	2	0	2	14,220	153	4	0	2
			4000K		14,072	151	2	0	2	14,135	152	2	0	2	13,310	143	2	0	2	14,105	151	4	0	2
			3000K		12,878	138	2	0	2	12,935	139	2	0	2	12,180	131	2	0	2	12,908	138	4	0	2
15H	100	578mA	5000K	102.8	15,428	150	3	0	2	15,497	151	2	0	2	14,593	142	2	0	2	15,465	150	4	0	2
			4000K		15,303	149	3	0	2	15,372	150	2	0	2	14,475	141	2	0	2	15,340	149	4	0	2
			3000K		14,004	136	2	0	2	14,067	137	2	0	2	13,246	129	2	0	2	14,038	137	4	0	2
16H	110	630mA	5000K	112.7	16,662	148	3	0	2	16,737	149	2	0	2	15,760	140	2	0	3	16,702	148	4	0	2
			4000K		16,528	147	3	0	2	16,602	147	2	0	2	15,633	139	2	0	3	16,567	147	4	0	2
			3000K		15,125	134	3	0	2	15,193	135	2	0	2	14,306	127	2	0	3	15,161	135	4	0	2
18H	120	683mA	5000K	122.5	17,785	145	3	0	2	17,865	146	2	0	2	16,823	137	2	0	3	17,828	146	4	0	2
			4000K		17,642	144	3	0	2	17,721	145	2	0	2	16,687	136	2	0	3	17,684	144	4	0	2
			3000K		16,145	132	3	0	2	16,217	132	2	0	2	15,270	125	2	0	3	16,183	132	4	0	2
19H	130	735mA	5000K	132.8	18,983	143	3	0	2	19,068	144	2	0	2	17,955	135	2	0	3	19,028	143	4	0	2
			4000K		18,829	142	3	0	2	18,914	142	2	0	2	17,810	134	2	0	3	18,874	142	4	0	2
			3000K		17,231	130	3	0	2	17,309	130	2	0	2	16,298	123	2	0	3	17,272	130	4	0	2
20H	140	788mA	5000K	142.9	20,089	141	3	0	3	20,179	141	2	0	2	19,001	133	2	0	3	20,137	141	4	0	2
			4000K		19,926	139	3	0	3	20,016	140	3	0	3	18,848	132	2	0	3	19,974	140	4	0	2
			3000K		18,235	128	3	0	2	18,317	128	2	0	2	17,248	121	2	0	3	18,279	128	4	0	2
21H	150	830mA	5000K	151.0	20,916	139	3	0	3	21,010	139	2	0	2	19,783	131	2	0	3	20,966	139	4	0	2
			4000K		20,747	137	3	0	3	20,840	138	2	0	2	19,624	130	2	0	3	20,796	138	4	0	2
			3000K		18,986	126	3	0	3	19,071	126	2	0	2	17,958	119	2	0	3	19,031	126	4	0	2
22H	160	921mA	5000K	161.7	22,044	136	3	0	3	22,143	137	3	0	2	20,850	129	3	0	3	22,096	137	4	0	2
			4000K		21,866	135	3	0	3	21,964	136	3	0	2	20,682	128	3	0	3	21,918	136	4	0	2
			3000K		20,010	124	3	0	3	20,100	124	2	0	2	18,927	117	2	0	3	20,058	124	4	0	2
23H	170	972mA	5000K	171.2	22,960	134	3	0	3	23,063	135	3	0	2	21,717	127	3	0	3	23,015	134	4	0	2
			4000K		22,775	133	3	0	3	22,877	134	3	0	2	21,542	126	3	0	3	22,829	133	4	0	2
			3000K		20,842	122	3	0	3	20,936	122	2	0	2	19,713	115	2	0	3	20,891	122	4	0	2
24H	180	1022mA	5000K	180.5	23,769	132	3	0	3	23,876	132	3	0	3	22,482	125	3	0	3	23,826	132	4	0	2
			4000K		23,577	131	3	0	3	23,683	131	3	0	3	22,301	124	3	0	3	23,633	131	4	0	2
			3000K		21,576	120	3	0	3	21,673	120	3	0	3	20,408	113	3	0	3	21,627	120	4	0	2
25H	190	1089mA	5000K	193.2	24,809	128	3	0	3	24,920	129	3	0	3	23,466	121	3	0	4	24,868	129	5	0	3
			4000K		24,608	127	3	0	3	24,719	128	3	0	3	23,276	120	3	0	4	24,667	128	5	0	3
			3000K		22,520	117	3	0	3	22,621	117	3	0	3	21,301	110	3	0	3	22,574	117	4	0	2
26H	210	1189mA	5000K	213.3	26,688	125	3	0	3	26,808	126	3	0	3	25,243	118	3	0	4	26,751	125	5	0	3
			4000K		26,472	124	3	0	3	26,591	125	3	0	3	25,039	117	3	0	4	26,535	124	5	0	3
			3000K		24,225	114	3	0	3	24,334	114	3	0	3	22,914	107	3	0	4	24,283	114	4	0	2
27H	220	1240mA	5000K	222.9	27,377	123	3	0	3	27,500	123	3	0	3	25,895	116	3	0	4	27,442	123	5	0	3
			4000K		27,156	122	3	0	3	27,278	122	3	0	3	25,686	115	3	0	4	27,221	122	5	0	3
			3000K		24,851	111	3	0	3	24,963	112	3	0	3	23,506	105	3	0	4	24,910	112	5	0	3
28H	230	1290mA	5000K	233.1	28,184	121	3	0	3	28,311	121	3	0	3	26,658	114	3	0	4	28,251	121	5	0	3
			4000K		27,956	120	3	0	3	28,082	120	3	0	3	26,443	113	3	0	4	28,023	120	5	0	3
			3000K		25,584	110	3	0	3	25,699	110	3	0	3	24,199	104	3	0	4	25,645	110	5	0	3
29H	240	1340mA	5000K	243.4	28,754	118	3	0	3	28,883	119	3	0	3	27,197	112	3	0	4	28,823	118	5	0	3
			4000K		28,522	117	3	0	3	28,650	118	3	0	3	26,978	111	3	0	4	28,590	117	5	0	3
			3000K		26,101	107	3	0	3	26,219	108	3	0	3	24,688	101	3	0	4	26,163	107	5	0	3
30H	250	1390mA	5000K	252.5	30,113	119	3	0	3	29,961	119	3	0	3	28,293	112	3	0	4	30,228	120	5	0	3
			4000K		29,870	118	3	0	3	29,719	118	3	0	3	28,064	111	3	0	4	29,984	119	5	0	3
			3000K		27,335	108	3	0	3	27,197	108	3	0	3	25,682	102	3	0	4	27,439	109	5	0	3

SOLAIS LIGHTING GROUP

8655 Corporate Drive
Frisco, TX 75033

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HLL HawkLite
rev 01/2023

LUMEN AMBIENT TEMPERATURE (LAT) MULTIPLIERS

Ambient Temperature		Lumen Multiplier
Celsius	Fahrenheit	
0°C	32°F	1.02
10°C	50°F	1.01
25°C	77°F	1.00
40°C	104°F	0.99
50°C	122°F	0.97

TM-21 LUMEN MAINTENANCE PROJECTION

- Calculated by utilizing the LED manufacturer's LM80 test data in conjunction with third party verified in-situ LED drive current and LED temperature data. Use data below to determine light loss factors.

Performance Package	50,000 hrs	60,000 hrs	100,000 hrs
14H to 23H	99.67%	99.49%	98.77%
24H to 27H	98.95%	98.62%	97.30%
28H to 30H	96.41%	95.66%	92.72%

PHOTOMETRIC DISTRIBUTION

Type II Roadway Medium
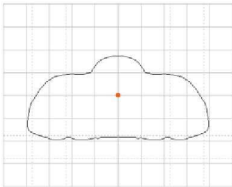
Type III Roadway Medium
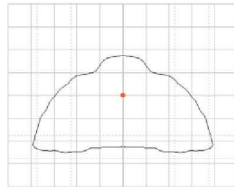
Type IV Wide Short
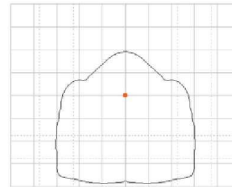
Type V Square Short
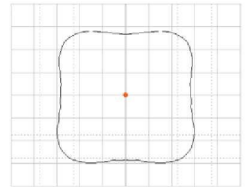
SHIELD ACCESSORY DETAILS

HOUSE SIDE SHIELD
- Flat-black, injection molded plastic resin
- Tool-less, clip-on discrete shield

CUL-DE-SAC SHIELD
- Flat-black, injection molded plastic resin
- Tool-less, clip-on discrete shield
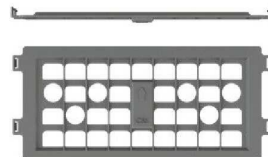
FRONT SIDE SHIELD
- Flat-black, injection molded plastic resin
- Tool-less, clip-on discrete shield
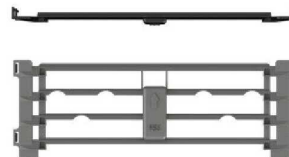
SCOOP SHIELD
- Flat-black, injection-molded plastic resin
- Tool-less, clip-on discrete shield

SOLAIS
LIGHTING GROUP

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Frisco, TX 75033

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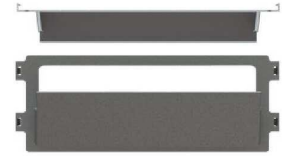
CONTROLS

0-10 V ZHAGA OPTIONS
- ZT1: Ambient Light Control
- ZT3: IR + Ambient Light Control
- ZT4: Occupancy + IR + Ambient Light Control

PHOTOCELL OPTIONS
- PCLO1: 120-277 V Photocell (640J, IP65); Blue
- PCLO2: 120-277 V Photocell (1280J, IP66); Blue
- PCLO3: 277-480 V Photocell (1280J, IP66); Yellow

FIELD ADJUSTABLE OUTPUT (FAO)

FAO Setting	Output
A	100%
B	90%
C	85%
D	80%
E	75%
F	65%
G	60%
H	55%
J	50%

SOLAIS
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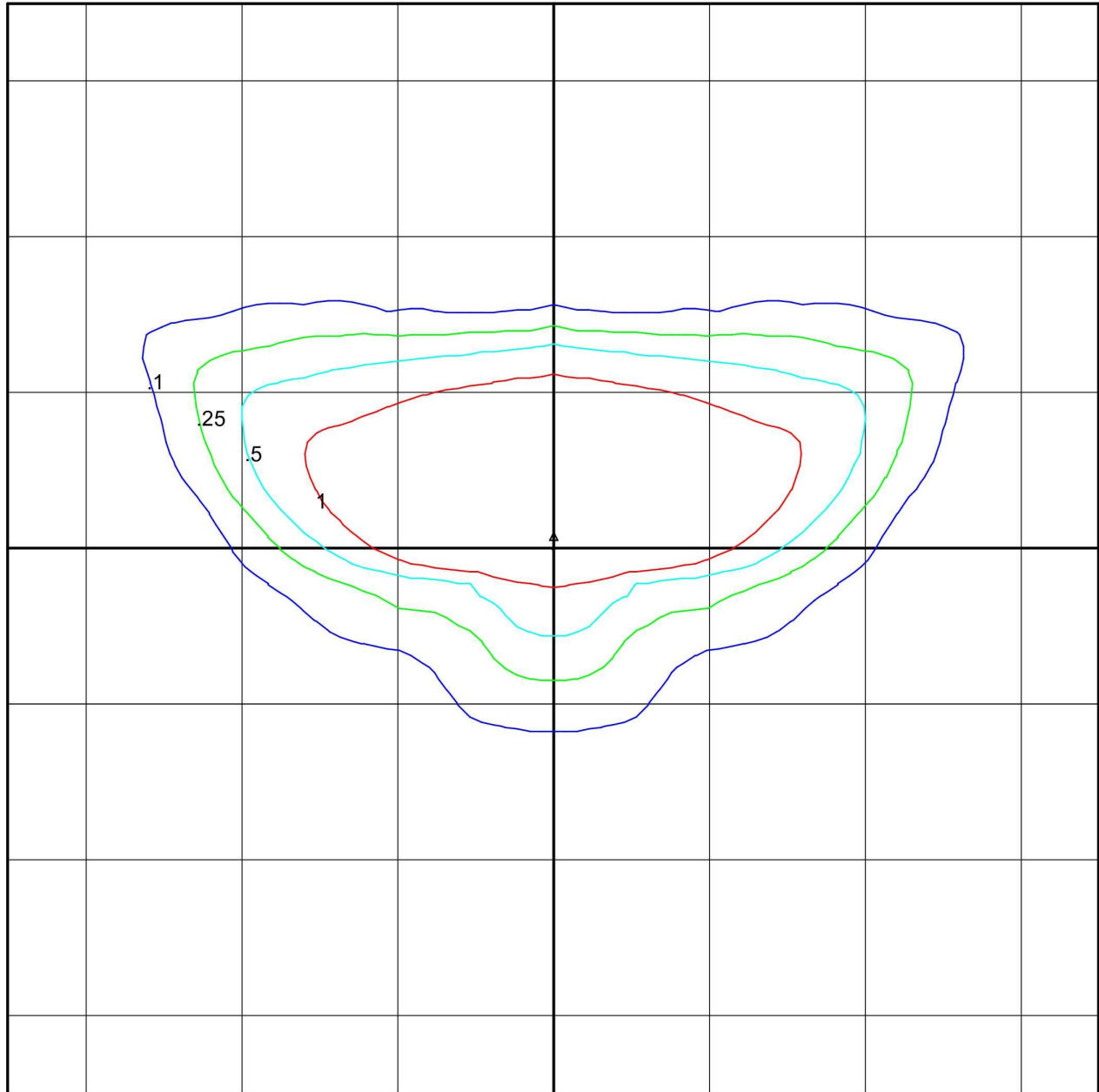
EnergyLite, a Solais Lighting Group brand
HLL-18H-3RM-740-STD-DA-1PS-70-SGY
HawkLite Large, 18H Lumen Package,
120W, Type III Roadway Medium, 4000K, 70CRI,
120-277V, DALI-2 Controls, 10kV Surge Protection, 7-pin
Receptacle, Gray

Horizontal Footcandles
Scale: 1 Inch = 40 Ft.
Light Loss Factor = 1.00
Lumens Per Lamp = N.A. (absolute photometry)
Luminaire Lumens = 17721
Mounting Height = 30.00 Ft
Maximum Calculated Value = 6.37 Fc
Arrangement: Specify_Location(s)

SOLAIS®
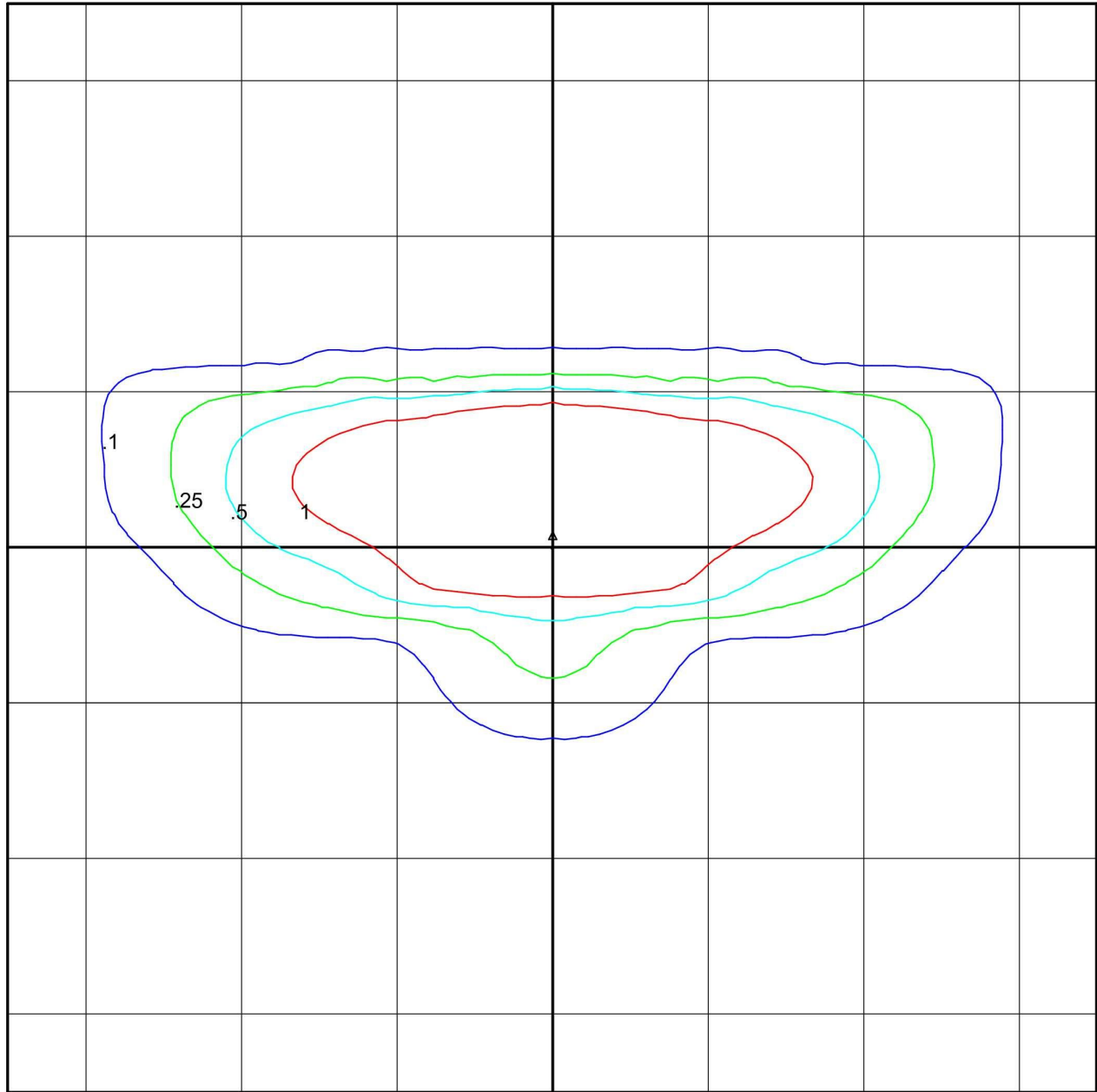
EnergyLite, a Solais Lighting Group brand
HLL-18H-2RM-740-STD-DA-1PS-70-SGY
HawkLite Large, 18H Lumen Package,
120W, Type II Roadway Medium, 4000K, 70CRI,
120-277V, DALI-2 Controls, 10kV Surge Protection, 7-pin
Receptacle, Gray

Horizontal Footcandles
Scale: 1 Inch = 40 Ft.
Light Loss Factor = 1.00
Lumens Per Lamp = N.A. (absolute photometry)
Luminaire Lumens = 17641
Mounting Height = 30.00 Ft
Maximum Calculated Value = 6.34 Fc
Arrangement: Specify_Location(s)

MPL3
Memphis® Tear Drop Large
Roadway LED Pendant

Description
The Memphis luminaire is styled to replicate the "teardrop" luminaires that lighted boulevards in the first half of the 1900s. Designed for light control and ease of installation and maintenance, the Esplanade has a precision optical system for true street lighting performance.

Mechanical
The luminaire housing:
- Heavy grade A360 cast aluminum (aluminum with <1% copper)
- IP65 rated housing provides a spring-loaded latch for toolless access and a hinge for easy installation and servicing
- Optic door incorporates a hinge and wing nut enabling toolless access to install and service
- EEI- NEMA twist lock photocontrol receptacle can be mounted in electrical housing or externally; housing contains a tempered glass window to allow light to reach the cell for internally mounting

Electrical
- Certified by UL or CSA for wet locations
- A factory programmable electronic driver with 0-10V dimming control leads meets maximum total harmonic distortion (THD) of 20%, >0.90 Power Factor and are ROHS compliant.
- Minimum operating temperature is -40°C. Electronic driver has an estimated minimum life of 100,000 hours at 25°C.
- Optional DALI driver available
- 20kV/10kA surge protection, fail off, with indicator light meets ANSI/IEEE C62.41.2
- Quick disconnect connectors for ease of installation and maintenance.
- Three pole terminal block is standard, with optional prewired leads for ease of installation
- Configurable with CCT options of 2700K, 3000K, 4000K and 5000K, 70 CRI minimum

Finish
- Rigorous multi-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 5,000 hours exposure to salt fog chamber (operated per ASTM B117) on standard and RAL finish options.
- RAL (RALxxxxSDCR) paint colors are Super Durable Corrosion Resistant, 80% gloss.

Optical
The optical system is IP66 rated and consists of a precisely molded thermal resistant borosilicate glass refractor mounted within the borosilicate refractor Teardrop, Bowl, Sag shaped glass optic or the tempered Flat glass retained by the cast aluminum door. Designed for Type 2, 3, 4 & 5 distribution, see performance data table for configurations. For zero uplight options the flat glass option or the decorative shallow or deep skirt used with the bowl or sag glass.

Control Options
The control options shall include, but not limited to, the following:
- Field adjustable output to adjust output to luminaire - AO
- Long life photocontrol, 20 years – PCLL, P34 and P48 with DTL
- 3 and 7 pin receptacles internally in housing (PR3, PR7) or externally mounted on the leveling fitter (PR3E, PR7E)
- On externally mounted options, the photocontrol or shorting cap are selected with the leveling fitter

Mounting Style (Leveling Fitter Options)
Three mounting versions are available.
- An arm mount version which is provided with two U-bolts with washers and nuts and two leveling set screws that lock the housing to a 2 inch nominal (2-3/8" O.D.) horizontal arm and allow a +/- 5 degree adjustment from horizontal to the cover.
- A pendant mount version (either 1.25NPT or 1.5NPT) which threads to a vertical NPT male threaded pipe fitting and is locked in place by a stainless-steel set screw.
- A QSM (Quick Lock Stem Mounting), which consists of a vertical stem with flared top that mounts into a matching QSM fitter or arm. The QSM mount can aid in installation speed as it is a quicker installation than the other mounting methods.
Note: the QSM style is compatible with the following leveling fitters:
- Boston Harbor Decorative Arm Fitter (BHDF)
- GlasWerks Decorative Arm Fitter (GWDF)
- West Liberty Decorative Arm Fitter (WLDF)
- Ball Style Decorative Arm Fitter (BADF)

Certification
CSA listing suitable for wet location up to 40°C. Consult factory for details.
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 to confirm which versions are qualified.

BUY AMERICAN ACT
This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/resources/buyamerican for additional information.

Warranty
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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.

DIMENSIONAL DATA

Teardrop Glass — 1'-5" wide, 2'-10" tall

Bowl Glass — 1'-5" wide, 2'-3" tall

Sag Glass — 1'-5" wide, 2' tall

Flat Glass — 1'-5" wide, 1'-9" tall

1'-7" (Teardrop), 1'-7" (Bowl), 1'-7" (Sag), 1'-7" (Flat)

1'-8" (Teardrop), 1'-8" (Bowl), 1'-8" (Sag), 1'-8" (Flat)

1'-2" / 7" / 4" / 1" dimensions shown on lower row

Tool-less latch
Wiring Chamber
1.50" NPT Pendant Mount (P)
Quick Lock Stem Mount (S)
Hinge
Uplight Refractor (Optional)
Stainless Steel Latch
Sag Glass
Hinge
Teardrop Glass
Optional NEMA Turn-Lock Photocontrol Receptacle
Electrical/Reflector Assembly
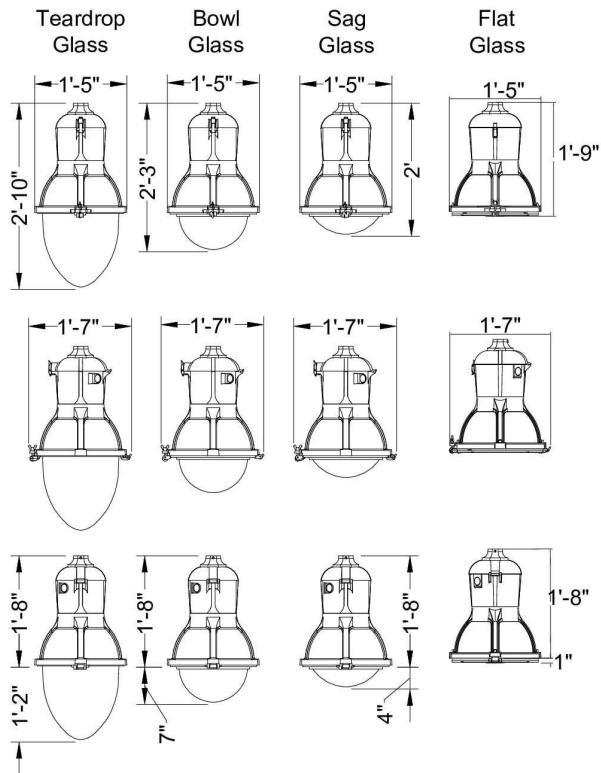
Maximum Weight – 69 lbs (Up Light Version)
Maximum Weight – 69 lbs (Down Light Version)
Maximum Effective Projected Area - MPL3 2.62 ft^2, MPL3 SS 2.86 ft^2, MPL3 DS 3.06 ft^2
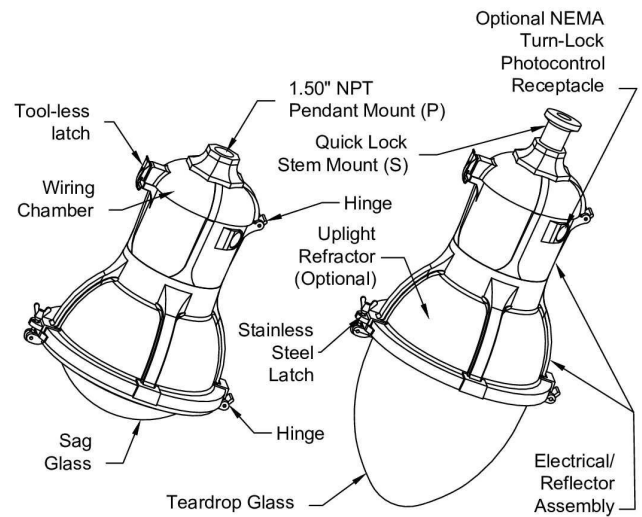
ORDERING INFORMATION

Example: MPL3 P30S 30K MVOLT TG3 QSM BK

Series		Lumen/Wattage Package				Color Temperature		Voltage	
MPL3	Memphis style housings	P10S	Standard housing, 44W	P35S	Standard housing, 112W	27K	2700 series CCT	MVOLT	Auto-sensing voltage (120 thru 277) 50/60 HZ
		P15S	Standard housing, 54W	P40S	Standard housing, 132W	30K	3000 series CCT		
		P20S	Standard housing, 73W	P45S	Standard housing, 153W	40K	4000 series CCT	HVOLT	Auto-sensing voltage (347 thru 480) 50/60 HZ
		P20U	Uplight housing, 94W	P50S	Standard housing, 173W	50K	5000 series CCT		
		P25S	Standard housing, 82W	P55S	Standard housing, 193W				
		P25U	Uplight housing, 109W	P60S	Standard housing, 215W				
		P30S	Standard housing, 92W	P65S	Standard housing, 247W				
		P30U	Uplight housing, 122W						

Optic				Mounting	
TG2	Teardrop Glass & Door: Type 2 application	BG4	Bowl Glass & Door: Type 4 application	NPT	Threaded top opening - 1.50" NPT
TG3	Teardrop Glass & Door: Type 3 application	BG5	Bowl Glass & Door: Type 5 application	QSM	Quick Lock Stem mount
TG4	Teardrop Glass & Door: Type 4 application	SG2	Sag Glass & Door: Type 2 application		
FG3	Flat Glass & Door: Type 3 application	SG3	Sag Glass & Door: Type 3 application		
FG5	Flat Glass & Door: Type 5 application	SG4	Sag Glass & Door: Type 4 application		
BG2	Bowl Glass & Door: Type 2 application	SG5	Sag Glass & Door: Type 5 application		
BG3	Bowl Glass & Door: Type 3 application				

Finish			Options				
BK	Black		A0	Field Adjustable Output		**Prewire Lead Options**	
DB	Dark Blue		PR3	NEMA twistlock photocontrol receptacle - 3 pin		L1H	1.5 ft. prewired leads
GR	Grey					L03	3 ft. prewired leads
GH	Graphite		PR7	NEMA twistlock dimming photocontrol receptacle - 7 pin		L10	10 ft. prewired leads
GN	Green					L20	20 ft. prewired leads
PP	Prime Paint		PR3E	NEMA twistlock photocontrol receptacle - 3 pin (Externally mounted to Fitter)		L25	25 ft. prewired leads
SL	Silver					L30	30 ft. prewired leads
WH	White					L35	35 ft. prewired leads
BZ	Bronze		PR7E	NEMA twistlock dimming photocontrol receptacle - 7 pin (Externally mounted to Fitter)		**NEMA Label Options**	
CMC	Custom Match Color Finish					NL1X1	1X1 NEMA Label
RALxxxxSDCR	RAL Super Durable Corrosion Resistant, 80% Gloss Paint, replace xxxx with RAL number.		PCLL	Long Life DTL Twistlock Photocontrol for Solid State, Fail Off, MVOLT		NL3X3	3X3 NEMA Label
						Shielding Options	
			P34	Long Life DTL Twistlock Photocontrol for Solid State, Fail Off, 347V		DS	Deep Skirt, 30" diameter
CTBS	Standard Finish to be determined					SS	Shallow Skirt, 30" diameter
			P48	Long Life DTL Twistlock Photocontrol for Solid State, Fail Off, 480V		HSS90	Factory installed Large TearDrop, Bowl & Flat Glass House Side Shield 90 degrees
						HSS120	Factory installed Large TearDrop, Bowl & Flat Glass House Side Shield 120 degrees
			SH	Shorting cap		HSS180	Factory installed Large TearDrop, Bowl & Flat Glass House Side Shield 180 degrees
						HSG90	Factory installed Large Sag Glass House Side Shield 90 degrees
						HSG120	Factory installed Large Sag Glass House Side Shield 120 degrees
						HSG180	Factory installed Large Sag Glass House Side Shield 180 degrees

Accessories: *Order as separate catalog number, ships separately & field installed.*

Shielding Options

LTD3HSS90	Large TearDrop, Bowl & Flat Glass House side shield 90 degree
LTD3HSS120	Large TearDrop, Bowl & Flat Glass House side shield 120 degree
LTD3HSS180	Large TearDrop, Bowl & Flat Glass House side shield 180 degree
LTD3HSG90	Large Sag Glass House side shield 90 degree
LTD3HSG120	Large Sag Glass House side shield 120 degree
LTD3HSG180	Large Sag Glass House side shield 180 degree
LTDSxx	Deep Skirt, 30" Diameter, replace xx with Finish option
LTSSxx	Shallow Skirt, 30" Diameter, replace xx with Finish option

OPTIONS MATRIX

OPTIONS		P10S	P15S	P20S	P20U	P25S	P25U	P30S	P30U	P35S	P40S	P45S	P50S	P55S	P60S	P65S	MVOLT	HVOLT	AO	PR3	PR7	PR3E	PR7E	PCLL	P34	P48	SH
								Performance Package									**Voltage**					**Options**					
Performance Package	P10S		N	N	N	N	N	N	N	N	N	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P15S	N		N	N	N	N	N	N	N	N	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P20S	N	N		N	N	N	N	N	N	N	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P20U	N	N	N		N	N	N	N	N	N	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P25S	N	N	N	N		N	N	N	N	N	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P25U	N	N	N	N	N		N	N	N	N	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P30S	N	N	N	N	N	N		N	N	N	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P30U	N	N	N	N	N	N	N		N	N	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P35S	N	N	N	N	N	N	N	N		N	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P40S	N	N	N	N	N	N	N	N	N		N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P45S	N	N	N	N	N	N	N	N	N	N		N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P50S	N	N	N	N	N	N	N	N	N	N	N		N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P55S	N	N	N	N	N	N	N	N	N	N	N	N		N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P60S	N	N	N	N	N	N	N	N	N	N	N	N	N		N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P65S	N	N	N	N	N	N	N	N	N	N	N	N	N	N		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Voltage	MVOLT	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		N	Y	Y	Y	Y	Y	Y	N	N	
	HVOLT	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N		Y	Y	Y	Y	Y	N	Y	Y	Y
Options	AO	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
	PR3	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		N	N	N	Y	Y	Y	Y
	PR7	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N		N	N	Y	Y	Y	Y
	PR3E	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N		N	N	N	N	N
	PR7E	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N		N	N	N	N
	PCLL	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	N	N		N	N	N
	P34	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	N	N	N		N	N
	P48	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	N	N	N	N		N
	SH	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N	N	

OPTICS by PERFORMANCE PACKAGE		TG2	TG3	TG4	FG3	FG5	BG2	BG3	BG4	BG5	SG2	SG3	SG4	SG5
							Performance Package							
Performance Package	P10S	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P15S	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P20S	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P20U	Y	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y
	P25S	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P25U	Y	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y
	P30S	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P30U	Y	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y
	P35S	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P40S	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P45S	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P50S	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P55S	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P60S	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P65S	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

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MARK APPROPRIATE BOX FOR TRIM OPTIONS

	STANDARD	SHALLOW SKIRT	DEEP SKIRT

TEARDROP GLASS
(Asymmetric)

BOWL GLASS
(Asymmetric)
(Symmetric)

SAG GLASS
(Asymmetric)
(Symmetric)

FLAT GLASS
(Asymmetric)
(Symmetric)

SKIRT DIMENSIONS

(For Teardrop, Bowl, and Sag Glass)

4"   Ø2'-7"

7"   Ø2'-7"

MPL3

Memphis® Tear Drop Large Roadway LED Pendant

PERFORMANCE DATA. FOR SKIRT AND HOUSE SIDE SHIELD OPTIONS, CONSULT FACTORY OR WEBSITE.

LED Package	Glass / Optic	System Watts	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P10S	TG2	44	6,013	137	1	3	3	6,490	148	2	3	3	6,609	150	2	3	3	6,705	152	2	3	3
	TG3		6,033	137	1	3	3	6,511	148	2	3	3	6,630	151	2	3	3	6,727	153	2	3	3
	TG4		5,671	129	1	3	3	6,121	139	1	3	3	6,233	142	1	3	3	6,324	144	1	3	3
	FG3		3,912	89	1	0	1	4,222	96	1	0	1	4,300	98	1	0	1	4,362	99	1	0	1
	FG5		3,846	87	2	0	1	4,150	94	2	0	1	4,227	96	2	0	1	4,288	97	2	0	1
	BG2		5,750	131	2	3	3	6,206	141	2	3	3	6,320	144	2	3	3	6,412	146	2	3	3
	BG3		5,692	129	2	3	3	6,143	140	2	3	4	6,256	142	2	3	4	6,347	144	2	3	4
	BG4		5,389	122	1	3	3	5,816	132	1	3	3	5,923	135	1	3	3	6,009	137	1	3	4
	BG5		6,004	136	3	3	3	6,480	147	3	3	3	6,599	150	3	3	3	6,695	152	3	3	3
	SG2		5,778	131	1	3	3	6,236	142	1	3	3	6,350	144	1	3	3	6,443	146	1	3	3
	SG3		5,773	131	1	3	3	6,231	142	1	3	3	6,346	144	1	3	3	6,438	146	1	3	3
	SG4		5,452	124	1	3	3	5,884	134	1	3	3	5,992	136	1	3	3	6,079	138	1	3	3
	SG5		6,041	137	3	3	2	6,520	148	3	3	2	6,640	151	3	3	2	6,737	153	3	3	2
P15S	TG2	54	7,487	139	2	3	3	8,080	150	2	3	3	8,229	152	2	3	3	8,348	155	2	3	3
	TG3		7,511	139	2	3	3	8,106	150	2	3	3	8,255	153	2	3	3	8,375	155	2	3	3
	TG4		7,061	131	1	3	3	7,621	141	2	3	3	7,761	144	2	3	3	7,874	146	2	3	3
	FG3		4,871	90	1	0	1	5,257	97	2	0	1	5,353	99	2	0	1	5,431	101	2	0	1
	FG5		4,788	89	2	0	1	5,167	96	2	0	1	5,262	97	2	0	1	5,339	99	2	0	1
	BG2		7,159	133	2	3	4	7,727	143	2	3	4	7,869	146	2	3	4	7,983	148	2	3	4
	BG3		7,086	131	2	3	4	7,648	142	2	3	4	7,789	144	2	3	4	7,902	146	2	3	4
	BG4		6,710	124	1	3	4	7,241	134	2	3	4	7,375	137	2	3	4	7,482	139	2	3	4
	BG5		7,475	138	3	3	3	8,068	149	3	3	3	8,216	152	3	3	3	8,335	154	3	3	3
	SG2		7,193	133	2	3	3	7,763	144	2	3	3	7,906	146	2	3	3	8,021	149	2	3	3
	SG3		7,188	133	2	3	3	7,758	144	2	3	3	7,900	146	2	3	3	8,015	148	2	3	3
	SG4		6,788	126	1	3	3	7,326	136	1	3	3	7,460	138	1	3	3	7,569	140	1	3	3
	SG5		7,522	139	3	3	2	8,118	150	3	3	2	8,267	153	3	3	2	8,387	155	3	3	2
P20S	TG2	73	10,290	141	2	3	3	11,106	152	2	3	3	11,310	155	2	3	3	11,474	157	2	3	3
	TG3		10,323	141	2	3	3	11,141	153	2	3	4	11,346	155	2	3	4	11,511	158	2	3	4
	TG4		9,705	133	2	3	3	10,474	143	2	3	3	10,667	146	2	3	3	10,822	148	2	3	3
	FG3		6,694	92	2	0	1	7,225	99	2	0	2	7,358	101	2	0	2	7,465	102	2	0	2
	FG5		6,581	90	2	0	1	7,102	97	2	0	1	7,233	99	2	0	1	7,338	101	2	0	1
	BG2		9,840	135	2	3	4	10,620	145	2	3	5	10,816	148	2	3	5	10,973	150	3	3	5
	BG3		9,740	133	2	3	5	10,512	144	2	3	5	10,705	147	2	3	5	10,861	149	2	3	5
	BG4		9,222	126	2	3	5	9,953	136	2	3	5	10,136	139	2	3	5	10,283	141	2	3	5
	BG5		10,274	141	3	3	4	11,089	152	3	3	4	11,293	155	4	3	4	11,457	157	4	3	4
	SG2		9,887	135	2	3	3	10,671	146	2	3	3	10,867	149	2	3	3	11,025	151	2	3	3
	SG3		9,879	135	2	3	3	10,662	146	2	3	4	10,859	149	2	3	4	11,016	151	2	3	4
	SG4		9,329	128	2	3	3	10,069	138	2	3	3	10,254	140	2	3	3	10,403	143	2	3	3
	SG5		10,338	142	3	3	3	11,158	153	3	3	3	11,363	156	4	3	3	11,528	158	4	3	3
P20U	TG2	94	12,937	138	2	5	3	13,962	149	2	5	3	14,219	151	2	5	3	14,426	153	2	5	3
	TG3		12,978	138	2	5	4	14,006	149	2	5	4	14,264	152	2	5	4	14,471	154	2	5	4
	TG4		12,201	130	2	5	3	13,168	140	2	5	4	13,410	143	2	5	4	13,605	145	2	5	4
	BG2		12,371	132	2	5	4	13,351	142	3	5	5	13,597	145	3	5	5	13,794	147	3	5	5
	BG3		12,245	130	2	5	5	13,216	141	2	5	5	13,459	143	2	5	5	13,654	145	2	5	5
	BG4		11,594	123	2	5	5	12,513	133	2	5	5	12,744	136	2	5	5	12,929	138	2	5	5
	BG5		12,917	137	3	5	4	13,941	148	4	5	4	14,198	151	4	5	4	14,404	153	4	5	4
	SG2		12,430	132	2	5	3	13,415	143	2	5	3	13,662	145	2	5	3	13,861	147	2	5	3
	SG3		12,421	132	2	5	4	13,405	143	2	5	4	13,652	145	2	5	4	13,850	147	2	5	4
	SG4		11,729	125	2	5	3	12,658	135	2	5	4	12,891	137	2	5	4	13,078	139	2	5	4
	SG5		12,997	138	3	5	3	14,028	149	4	5	3	14,286	152	4	5	3	14,493	154	4	5	3

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PERFORMANCE DATA. FOR SKIRT AND HOUSE SIDE SHIELD OPTIONS, CONSULT FACTORY OR WEBSITE.

LED Package	Glass / Optic	System Watts	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P25S	TG2	82	11,665	142	2	3	4	12,590	154	3	3	4	12,821	156	3	3	4	13,008	159	3	3	4
	TG3		11,703	143	2	3	4	12,630	154	3	3	4	12,862	157	3	3	4	13,049	159	3	3	4
	TG4		11,002	134	2	3	3	11,874	145	2	3	4	12,092	147	2	3	4	12,268	150	2	3	4
	FG3		7,589	93	2	0	2	8,190	100	2	0	2	8,341	102	2	0	2	8,462	103	2	0	2
	FG5		7,460	91	2	0	1	8,051	98	3	0	1	8,199	100	3	0	1	8,319	101	3	0	1
	BG2		11,155	136	3	3	5	12,039	147	3	3	5	12,261	150	3	3	5	12,439	152	3	3	5
	BG3		11,042	135	2	3	5	11,917	145	3	3	5	12,136	148	3	3	5	12,312	150	3	3	5
	BG4		10,454	127	2	3	5	11,283	138	2	3	5	11,491	140	2	3	5	11,658	142	2	3	5
	BG5		11,647	142	4	3	4	12,570	153	4	3	4	12,802	156	4	3	4	12,988	158	4	3	4
	SG2		11,208	137	2	3	3	12,096	148	2	3	4	12,319	150	2	3	4	12,498	152	2	3	4
	SG3		11,200	137	2	3	4	12,087	147	2	3	4	12,310	150	2	3	4	12,488	152	2	3	4
	SG4		10,576	129	2	3	4	11,414	139	2	3	4	11,624	142	2	3	4	11,793	144	2	3	4
	SG5		11,720	143	4	3	3	12,649	154	4	3	3	12,881	157	4	3	3	13,069	159	4	3	3
P25U	TG2	109	14,701	135	2	5	4	15,866	146	3	5	4	16,158	148	3	5	4	16,393	150	3	5	4
	TG3		14,747	135	2	5	4	15,916	146	3	5	4	16,209	149	3	5	4	16,445	151	3	5	4
	TG4		13,865	127	2	5	4	14,964	137	2	5	4	15,239	140	2	5	4	15,460	142	2	5	4
	BG2		14,058	129	3	5	5	15,172	139	3	5	5	15,451	142	3	5	5	15,675	144	3	5	5
	BG3		13,915	128	3	5	5	15,018	138	3	5	5	15,294	140	3	5	5	15,516	142	3	5	5
	BG4		13,176	121	2	5	5	14,220	130	2	5	5	14,481	133	2	5	5	14,692	135	2	5	5
	BG5		14,679	135	4	5	4	15,842	145	4	5	4	16,134	148	4	5	4	16,368	150	4	5	4
	SG2		14,125	130	2	5	4	15,245	140	2	5	4	15,525	142	2	5	4	15,751	145	2	5	4
	SG3		14,115	129	2	5	4	15,233	140	2	5	4	15,514	142	2	5	4	15,739	144	2	5	4
	SG4		13,328	122	2	5	4	14,384	132	2	5	4	14,649	134	2	5	4	14,862	136	2	5	4
	SG5		14,770	136	4	5	3	15,941	146	4	5	3	16,234	149	4	5	3	16,470	151	4	5	3
P30S	TG2	92	12,968	141	3	3	4	13,996	152	3	3	4	14,254	155	3	3	4	14,461	157	3	3	4
	TG3		13,010	141	3	3	4	14,041	153	3	3	4	14,300	155	3	3	4	14,507	158	3	3	4
	TG4		12,231	133	2	3	4	13,201	143	2	3	4	13,443	146	2	3	4	13,639	148	2	3	4
	FG3		8,437	92	2	0	2	9,106	99	2	0	2	9,273	101	2	0	2	9,408	102	2	0	2
	FG5		8,294	90	3	0	1	8,951	97	3	0	1	9,116	99	3	0	1	9,248	101	3	0	2
	BG2		12,402	135	3	3	5	13,385	145	3	3	5	13,631	148	3	3	5	13,829	150	3	3	5
	BG3		12,275	133	3	3	5	13,248	144	3	3	5	13,492	147	3	3	5	13,688	149	3	3	5
	BG4		11,623	126	2	3	5	12,544	136	2	3	5	12,774	139	2	3	5	12,960	141	2	3	5
	BG5		12,949	141	4	3	4	13,975	152	4	3	4	14,232	155	4	3	4	14,439	157	4	3	4
	SG2		12,460	135	2	3	4	13,448	146	2	3	4	13,695	149	2	3	4	13,894	151	2	3	4
	SG3		12,451	135	2	3	4	13,438	146	2	3	4	13,685	149	2	3	4	13,884	151	3	3	4
	SG4		11,758	128	2	3	4	12,690	138	2	3	4	12,923	140	2	3	4	13,111	143	2	3	4
	SG5		13,029	142	4	3	3	14,062	153	4	3	3	14,321	156	4	3	3	14,529	158	4	3	3
P30U	TG2	122	16,481	135	3	5	4	17,787	146	3	5	4	18,115	148	3	5	4	18,378	151	3	5	4
	TG3		16,533	136	3	5	4	17,843	146	3	5	4	18,172	149	3	5	5	18,436	151	3	5	5
	TG4		15,543	127	2	5	4	16,775	138	2	5	4	17,084	140	2	5	4	17,332	142	2	5	4
	BG2		15,760	129	3	5	5	17,009	139	3	5	5	17,322	142	3	5	5	17,573	144	3	5	5
	BG3		15,600	128	3	5	5	16,836	138	3	5	5	17,146	141	3	5	5	17,395	143	3	5	5
	BG4		14,771	121	2	5	5	15,942	131	2	5	5	16,235	133	2	5	5	16,471	135	3	5	5
	BG5		16,456	135	4	5	4	17,760	146	4	5	5	18,087	148	4	5	5	18,350	150	4	5	5
	SG2		15,836	130	2	5	4	17,091	140	3	5	4	17,405	143	3	5	4	17,658	145	3	5	4
	SG3		15,824	130	2	5	4	17,078	140	3	5	4	17,392	143	3	5	4	17,645	145	3	5	4
	SG4		14,942	122	2	5	4	16,126	132	2	5	4	16,423	135	2	5	4	16,661	137	2	5	4
	SG5		16,558	136	4	5	3	17,871	146	4	5	3	18,199	149	4	5	3	18,464	151	4	5	3

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Memphis® Tear Drop Large Roadway LED Pendant

PERFORMANCE DATA. FOR SKIRT AND HOUSE SIDE SHIELD OPTIONS, CONSULT FACTORY OR WEBSITE.

LED Package	Glass / Optic	System Watts	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P35S	TG2	112	15,526	139	3	3	4	16,757	150	3	3	4	17,065	152	3	3	4	17,313	155	3	3	4
	TG3		15,576	139	3	3	4	16,810	150	3	3	5	17,120	153	3	3	5	17,368	155	3	3	5
	TG4		14,643	131	3	3	4	15,804	141	3	3	4	16,095	144	3	3	4	16,328	146	3	3	4
	FG3		10,101	90	3	0	2	10,901	97	3	0	2	11,102	99	3	0	2	11,263	101	3	0	2
	FG5		9,929	89	3	0	2	10,716	96	3	0	2	10,913	97	3	0	2	11,072	99	3	0	2
	BG2		14,847	133	3	3	5	16,024	143	3	3	5	16,319	146	3	3	5	16,556	148	3	3	5
	BG3		14,696	131	3	3	5	15,861	142	3	4	5	16,153	144	3	4	5	16,388	146	3	4	5
	BG4		13,915	124	2	3	5	15,018	134	3	3	5	15,294	137	3	3	5	15,516	139	3	3	5
	BG5		15,502	138	4	3	5	16,731	149	4	3	5	17,039	152	4	3	5	17,286	154	4	3	5
	SG2		14,918	133	3	3	4	16,100	144	3	3	4	16,396	146	3	3	4	16,634	149	3	3	4
	SG3		14,906	133	3	3	4	16,088	144	3	3	5	16,384	146	3	3	5	16,622	148	3	3	5
	SG4		14,076	126	2	3	4	15,192	136	2	3	4	15,472	138	2	3	4	15,696	140	2	3	4
	SG5		15,599	139	4	3	3	16,835	150	4	3	3	17,145	153	4	3	3	17,394	155	4	3	3
P40S	TG2	132	18,148	137	3	3	5	19,586	148	3	3	5	19,947	151	3	3	5	20,236	153	3	3	5
	TG3		18,206	138	3	3	5	19,649	149	3	3	5	20,011	152	3	3	5	20,301	154	3	3	5
	TG4		17,116	130	3	3	4	18,473	140	3	3	5	18,812	143	3	3	5	19,086	145	3	3	5
	FG3		11,806	89	3	0	2	12,742	97	3	0	2	12,977	98	3	0	2	13,165	100	3	0	2
	FG5		11,606	88	3	0	2	12,526	95	3	0	2	12,756	97	3	0	2	12,941	98	3	0	2
	BG2		17,355	131	3	4	5	18,730	142	3	4	5	19,075	145	3	4	5	19,352	147	3	4	5
	BG3		17,178	130	3	4	5	18,539	140	3	4	5	18,880	143	3	4	5	19,155	145	3	4	5
	BG4		16,264	123	3	3	5	17,553	133	3	4	5	17,876	135	3	4	5	18,136	137	3	4	5
	BG5		18,120	137	4	3	5	19,556	148	4	4	5	19,916	151	4	4	5	20,205	153	4	4	5
	SG2		17,437	132	3	3	5	18,819	143	3	3	5	19,165	145	3	3	5	19,443	147	3	3	5
	SG3		17,424	132	3	3	5	18,805	142	3	3	5	19,151	145	3	3	5	19,429	147	3	3	5
	SG4		16,453	125	2	3	5	17,758	135	3	3	5	18,084	137	3	3	5	18,347	139	3	3	5
	SG5		18,233	138	4	3	3	19,678	149	4	3	3	20,040	152	4	3	3	20,331	154	4	3	3
P45S	TG2	153	20,508	134	3	3	5	22,134	145	3	3	5	22,541	147	3	3	5	22,868	149	3	3	5
	TG3		20,574	134	3	3	5	22,205	145	3	3	5	22,613	148	3	3	5	22,942	150	3	3	5
	TG4		19,342	126	3	3	5	20,875	136	3	3	5	21,259	139	3	3	5	21,568	141	3	3	5
	FG3		13,342	87	3	0	2	14,399	94	3	0	3	14,664	96	3	0	3	14,877	97	3	0	3
	FG5		13,115	86	3	0	2	14,155	93	3	0	2	14,415	94	3	0	2	14,625	96	3	0	2
	BG2		19,612	128	3	4	5	21,166	138	3	4	5	21,555	141	3	4	5	21,869	143	3	4	5
	BG3		19,412	127	3	4	5	20,951	137	3	4	5	21,336	139	3	4	5	21,646	141	3	4	5
	BG4		18,380	120	3	4	5	19,836	130	3	4	5	20,201	132	3	4	5	20,495	134	3	4	5
	BG5		20,477	134	4	4	5	22,100	144	4	4	5	22,506	147	5	4	5	22,833	149	5	4	5
	SG2		19,705	129	3	3	5	21,266	139	3	3	5	21,658	142	3	3	5	21,972	144	3	3	5
	SG3		19,690	129	3	3	5	21,250	139	3	3	5	21,641	141	3	3	5	21,956	144	3	3	5
	SG4		18,593	122	3	3	5	20,067	131	3	3	5	20,436	134	3	3	5	20,733	136	3	3	5
	SG5		20,604	135	4	3	3	22,238	145	4	3	3	22,647	148	5	3	3	22,976	150	5	3	4
P50S	TG2	173	22,698	131	3	3	5	24,497	142	3	3	5	24,948	144	3	4	5	25,310	146	3	4	5
	TG3		22,771	132	3	3	5	24,576	142	3	3	5	25,028	145	3	3	5	25,392	147	3	4	5
	TG4		21,408	124	3	3	5	23,104	134	3	3	5	23,529	136	3	3	5	23,871	138	3	3	5
	FG3		14,767	85	3	0	3	15,937	92	3	0	3	16,230	94	3	0	3	16,466	95	3	0	3
	FG5		14,516	84	3	0	2	15,666	91	3	0	2	15,955	92	3	0	2	16,186	94	3	0	2
	BG2		21,706	125	3	4	5	23,426	135	3	4	5	23,857	138	3	4	5	24,204	140	3	4	5
	BG3		21,485	124	3	4	5	23,188	134	3	4	5	23,615	137	3	4	5	23,958	138	3	4	5
	BG4		20,342	118	3	4	5	21,955	127	3	4	5	22,359	129	3	4	5	22,684	131	3	4	5
	BG5		22,663	131	5	4	5	24,460	141	5	4	5	24,910	144	5	4	5	25,272	146	5	4	5
	SG2		21,809	126	3	3	5	23,537	136	3	3	5	23,970	139	3	3	5	24,319	141	3	3	5
	SG3		21,792	126	3	3	5	23,520	136	3	3	5	23,952	138	3	3	5	24,300	140	3	3	5
	SG4		20,579	119	3	3	5	22,210	128	3	3	5	22,619	131	3	3	5	22,947	133	3	3	5
	SG5		22,805	132	5	3	4	24,612	142	5	3	4	25,065	145	5	3	4	25,429	147	5	3	4

HOLOPHANE® — LEADER IN LIGHTING SOLUTIONS

PERFORMANCE DATA. FOR SKIRT AND HOUSE SIDE SHIELD OPTIONS, CONSULT FACTORY OR WEBSITE.

LED Package	Glass / Optic	System Watts	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P55S	TG2	193	24,807	129	3	3	5	26,773	139	3	4	5	27,266	141	3	4	5	27,662	143	3	4	5
	TG3		24,887	129	3	3	5	26,859	139	3	4	5	27,353	142	3	4	5	27,751	144	3	4	5
	TG4		23,397	121	3	3	5	25,251	131	3	3	5	25,716	133	3	3	5	26,089	135	3	4	5
	FG3		16,139	84	3	0	3	17,418	90	3	0	3	17,738	92	3	0	3	17,996	93	3	0	3
	FG5		15,865	82	3	0	2	17,122	89	3	0	2	17,437	90	3	0	2	17,690	92	3	0	2
	BG2		23,723	123	3	4	5	25,603	133	3	4	5	26,074	135	3	4	5	26,453	137	3	4	5
	BG3		23,481	122	3	4	5	25,342	131	3	4	5	25,809	134	3	4	5	26,184	136	3	4	5
	BG4		22,232	115	3	4	5	23,995	124	3	4	5	24,436	127	3	4	5	24,791	128	3	4	5
	BG5		24,769	128	5	4	5	26,732	139	5	4	5	27,224	141	5	4	5	27,620	143	5	4	5
	SG2		23,835	123	3	3	5	25,724	133	3	3	5	26,198	136	3	3	5	26,578	138	3	3	5
	SG3		23,817	123	3	3	5	25,705	133	3	3	5	26,178	136	3	3	5	26,558	138	3	3	5
	SG4		22,491	117	3	3	5	24,274	126	3	3	5	24,720	128	3	3	5	25,079	130	3	3	5
	SG5		24,924	129	5	3	4	26,899	139	5	3	4	27,394	142	5	3	4	27,792	144	5	3	4
P60S	TG2	215	27,208	127	3	4	5	29,364	137	3	4	5	29,905	139	3	4	5	30,339	141	3	4	5
	TG3		27,295	127	3	4	5	29,459	137	3	4	5	30,001	140	3	4	5	30,437	142	3	4	5
	TG4		25,661	119	3	3	5	27,695	129	3	4	5	28,204	131	3	4	5	28,614	133	3	4	5
	FG3		17,701	82	3	0	3	19,104	89	3	0	3	19,455	90	3	0	3	19,738	92	3	0	3
	FG5		17,400	81	3	0	2	18,779	87	4	0	2	19,124	89	4	0	2	19,402	90	4	0	2
	BG2		26,019	121	3	4	5	28,081	131	4	4	5	28,597	133	4	4	5	29,013	135	4	4	5
	BG3		25,754	120	3	4	5	27,795	129	4	4	5	28,306	132	4	4	5	28,718	134	4	4	5
	BG4		24,384	113	3	4	5	26,317	122	3	4	5	26,801	125	3	4	5	27,190	126	3	4	5
	BG5		27,166	126	5	4	5	29,319	136	5	4	5	29,859	139	5	4	5	30,293	141	5	4	5
	SG2		26,142	122	3	3	5	28,214	131	3	3	5	28,733	134	3	3	5	29,150	136	3	3	5
	SG3		26,122	121	3	3	5	28,193	131	3	3	5	28,711	134	3	3	5	29,128	135	3	3	5
	SG4		24,668	115	3	3	5	26,623	124	3	3	5	27,113	126	3	3	5	27,506	128	3	3	5
	SG5		27,336	127	5	3	4	29,502	137	5	3	4	30,045	140	5	3	4	30,481	142	5	3	4
P65S	TG2	247	30,354	123	3	4	5	32,760	133	4	4	5	33,363	135	4	4	5	33,848	137	4	4	5
	TG3		30,452	123	3	4	5	32,866	133	4	4	5	33,470	136	4	4	5	33,956	137	4	4	5
	TG4		28,629	116	3	4	5	30,898	125	3	4	5	31,466	127	3	4	5	31,923	129	3	4	5
	FG3		19,748	80	3	0	3	21,313	86	3	0	3	21,705	88	3	0	3	22,020	89	3	0	3
	FG5		19,412	79	4	0	2	20,951	85	4	0	3	21,336	86	4	0	3	21,646	88	4	0	3
	BG2		29,028	118	4	4	5	31,328	127	4	4	5	31,905	129	4	4	5	32,368	131	4	4	5
	BG3		28,732	116	4	4	5	31,009	126	4	5	5	31,580	128	4	5	5	32,039	130	4	5	5
	BG4		27,204	110	3	4	5	29,360	119	3	4	5	29,900	121	3	4	5	30,335	123	3	4	5
	BG5		30,308	123	5	4	5	32,710	132	5	4	5	33,312	135	5	4	5	33,796	137	5	4	5
	SG2		29,165	118	3	3	5	31,477	127	3	3	5	32,056	130	3	4	5	32,522	132	3	4	5
	SG3		29,143	118	3	3	5	31,453	127	3	4	5	32,032	130	3	4	5	32,497	132	3	4	5
	SG4		27,520	111	3	3	5	29,702	120	3	3	5	30,248	122	3	3	5	30,688	124	3	3	5
	SG5		30,497	123	5	3	4	32,914	133	5	3	4	33,520	136	5	3	4	34,007	138	5	3	4

LUMEN AMBIENT TEMPERATURE (LAT) MULTIPLIERS

Use the factors to determine relative lumen output for average ambient temperatures from 0-40℃ (32-104℉)

Ambient Temp.		Lumen Multiplier (by Performance Package)			
℃	℉	P10S, P15S, P20S, P20U, P25S, P25U, P30S, P30U, P35S, P40S, P45S & P50S	P55S	P60S	P65S
0	32	1.03	1.04	1.04	1.04
5	41	1.03	1.03	1.03	1.04
10	50	1.02	1.02	1.03	1.03
15	59	1.01	1.02	1.02	1.02
20	68	1.01	1.01	1.01	1.01
25	77	1.00	1.00	1.00	1.00
30	86	0.99	0.99	0.99	0.99
35	95	0.99	0.98	0.98	0.98
40	104	0.98	0.97	0.97	0.97

PROJECTED LED LUMEN MAINTENANCE

Data references the extrapolated performance projections for the platforms noted in 25℃ ambient, based on 6,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11). To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

	Lumen Maintenance - LLD (by Performance Package)							
	Hours	0	25,000	36,000	50,000	60,000	67,500	75,000	100,000
Factor for:	P10S, P15S, P20S, P20U, P25S, P25U, P30S, P30U, P35S, P40S, P45S & P50S	1.00	0.95	0.94	0.91	0.90	0.89	0.88	0.84
	P55S	1.00	0.95	0.93	0.91	0.90	0.89	0.87	0.84
	P60S & P65S	1.00	0.95	0.93	0.90	0.89	0.87	0.86	0.82

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FIELD ADJUSTABLE OUTPUT (AO option)
The data is the same for MVOLT & HVOLT.

Performance Package	FAO Position	% Lumen Output	% Wattage
P10S	8	100%	100%
	7	94%	94%
	6	80%	80%
	5	68%	68%
	4	55%	55%
	3	41%	42%
	2	28%	29%
	1	13%	15%
P15S	8	100%	100%
	7	94%	94%
	6	80%	80%
	5	68%	68%
	4	55%	55%
	3	42%	42%
	2	28%	29%
	1	14%	15%
P20S	8	100%	100%
	7	94%	94%
	6	81%	80%
	5	69%	68%
	4	56%	54%
	3	42%	41%
	2	29%	29%
	1	14%	15%
P20U	8	100%	100%
	7	94%	94%
	6	81%	80%
	5	69%	68%
	4	56%	55%
	3	43%	42%
	2	29%	29%
	1	15%	15%
P25S	8	100%	100%
	7	94%	94%
	6	81%	80%
	5	69%	67%
	4	56%	54%
	3	43%	41%
	2	29%	28%
	1	15%	15%

Performance Package	FAO Position	% Lumen Output	% Wattage
P25U	8	100%	100%
	7	94%	94%
	6	81%	80%
	5	69%	68%
	4	56%	54%
	3	43%	41%
	2	30%	29%
	1	15%	15%
P30S	8	100%	100%
	7	94%	94%
	6	81%	80%
	5	69%	67%
	4	56%	54%
	3	43%	41%
	2	30%	28%
	1	15%	15%
P30U	8	100%	100%
	7	94%	94%
	6	81%	80%
	5	70%	67%
	4	57%	54%
	3	44%	41%
	2	30%	29%
	1	15%	15%
P35S	8	100%	100%
	7	94%	94%
	6	81%	79%
	5	70%	67%
	4	57%	54%
	3	44%	41%
	2	30%	28%
	1	15%	15%
P40S	8	100%	100%
	7	95%	94%
	6	82%	79%
	5	70%	67%
	4	57%	54%
	3	44%	41%
	2	31%	28%
	1	16%	15%

Performance Package	FAO Position	% Lumen Output	% Wattage
P45S	8	100%	100%
	7	95%	94%
	6	82%	79%
	5	71%	67%
	4	58%	54%
	3	45%	41%
	2	31%	28%
	1	16%	14%
P50S	8	100%	100%
	7	95%	94%
	6	82%	79%
	5	71%	67%
	4	59%	54%
	3	45%	41%
	2	32%	28%
	1	16%	14%
P55S	8	100%	100%
	7	95%	94%
	6	83%	79%
	5	72%	67%
	4	59%	54%
	3	46%	41%
	2	32%	28%
	1	17%	14%
P60S	8	100%	100%
	7	95%	94%
	6	83%	79%
	5	72%	67%
	4	60%	54%
	3	47%	41%
	2	33%	28%
	1	17%	14%
P65S	8	100%	100%
	7	95%	94%
	6	84%	79%
	5	73%	67%
	4	61%	53%
	3	48%	40%
	2	33%	28%
	1	18%	14%

Catalog Number	
Notes	Type

BADF SERIES
BALL STYLE
Decorative Arm Fitter
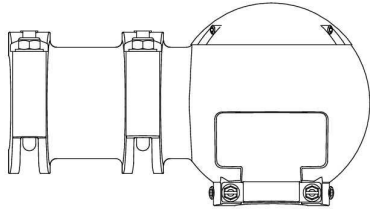
Specifications

General Description
The Ball style decorative arm fitter is designed to replicate the look of period cast arm mounts.

Materials
The fitter body, top cover, and door assembly shall be heavy wall cast aluminum. All mounting and locking hardware shall be stainless steel.

Function
The fitter is designed to be used on 2" horizontal arms with pendant luminaires having either a quick stem mount (QSM) or a 1.5NPT (NPT) as the selected mounting method.

Mounting Options
• QSM: The quick stem mount significantly simplify installation, ensures that the luminaire is hanging properly and does not require pipe dope. The swivel action on the stem allows for +/- 4 degree adjustment from vertical. The contoured door (with integral lanyard) is removed to allow the stem to engage inside the fitter. The door is replaced to the capture the luminaire stem.
• NPT15S or NPT15R: The 1.5NPT requires pipe dope. There are two NPT mounting options, the swivel (NPT15S) and the rigid (NPT15R)

Installation
The fitter is provided with (2) U-bolts, washers and nuts and (2) leveling set screws that lock the fitter to a nominal 2" horizontal arm and allow a +/- 5 degree adjustment from horizontal to the fitter. (3) set screws lock either the QSM stem or NPT15S threaded male connector in place. The cast top cover can be removed to allow access to the inside of the fitter to facilitate wire connections. (3) set screws lock the cover to the fitter.
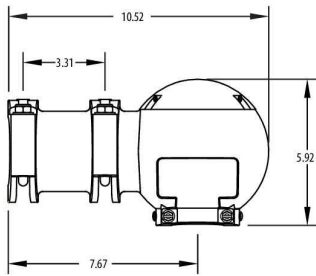
Finish
• Utilize a polyester powder coat paint to ensure maximum durability.
• Rigorous multi-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 5,000 hours exposure to salt fog chamber (operated per ASTM B117) on standard and RAL finish options.
• RAL (RALxxxxSDCR) paint colors are Super Durable Corrosion Resistant, 80% gloss.

Warranty
1-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.
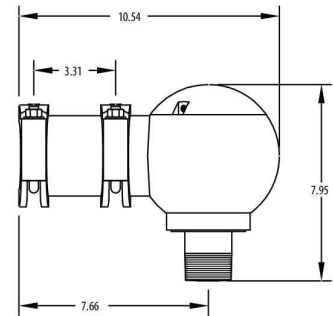Specifications subject to change without notice.
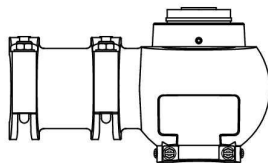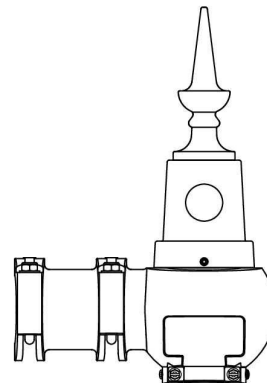
DIMENSIONAL DATA

QSM Mounting
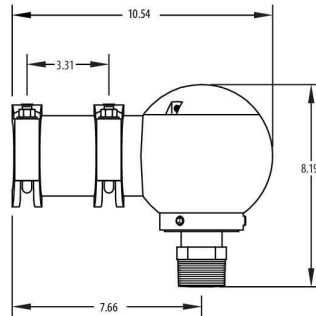
NPT15S Mounting

NPT15R Mounting

QSM Mounting with PR3E or PR7E option

TPRCSXX Accessory

ORDERING INFORMATION   **Example:** BADF QSM BK PR7E PCLL

Series		Size		Finish		Options	
BADF	Ball Style Decorative Arm Fitter	NPT15S	Pendant 1.50 NPT Swivel	BK	Black	PR3E	External Mounted NEMA Twist Lock Photocontrol Receptacle - 3 PIN
		NPT15R	Pendant 1.50 NPT Rigid	BZ	Bronze	PR7E	External Mounted NEMA Twist Lock Dimming Photocontrol Receptacle - 7 PIN
		QSM	Quick Stem Mount	DB	Dark Blue	SH	Shorting cap
				GH	Graphite	PCLL	Long Life DTL Twistlock Photocontrol for Solid State, MVOLT
				GN	Green	P34	Long Life DTL Twistlock Photocontrol for Solid State, 347V
				GR	Gray	P48	Long Life DTL Twistlock Photocontrol for Solid State, 480V
				PP	Prime Painted		
				SL	Silver		
				WH	White		
				CMC	Customer matching color		
				CTBS	Standard color to be selected		
				RALxxxxSDCR	RAL Super Durable Corrosion Resistant, 80% Gloss Paint, replace xxxx with RAL number.		

Accessories	
TPRCSXX	Twistlock Photocontrol Cover Assembly with Spike Finial
	Note: Cover will only work with PR3E or PR73 with Acuity's PCLL, P34, P48, SH or other like devices equal in dimension.

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