

# **FEATURES & SPECIFICATIONS**

**INTENDED USE** — Square Straight Steel is a general purpose light pole for up to 39-foot mounting heights. This pole provides a robust yet cost effective option for mounting area lights and floodlights.

**CONSTRUCTION** — **Pole Shaft:** The pole shaft is of uniform dimension and wall thickness and is made of a weldable-grade, hot-rolled, commercial-quality steel tubing with a minimum yield of 55 KSI (11-gauge, .1196"), or 50 KSI (7-gauge, .1793"). Shaft is one-piece with a full-length longitudinal high-frequency electric resistance weld. Uniformly square in cross-section with flat sides, small corner radii and excellent torsional qualities. Available shaft widths are 4", 5" and 6".

**Pole Top:** A top cap is provided for all poles that will receive drilling patterns for side-mount luminaire arm assemblies or when ordered with PT option.

**Handhole:** A reinforced handhole with grounding provision is provided at 18" from the base. Positioning the handhole lower may not be possible and requires engineering review; consult Tech Support-Outdoor for further information. Every handhole includes a cover and cover attachment hardware. The handhole has a nominal dimension of 2.5" x 5".

Base Cover: A durable ABS plastic two-piece full base cover, finished to match the pole, is provided with each pole assembly. Additional base cover options are available upon request.

Anchor Base/ Bolts: Anchor base is fabricated from steel that meets ASTM A36 standards and can be altered to match existing foundations; consult factory for modifications. Anchor bolts are manufactured to ASTM F1554 Standards grade 55, (55 KSI minimum yield strength and tensile strength of 75-95 KSI). Top threaded portion (nominal 12") is hot-dipped galvanized per ASTM A-153.

**HARDWARE** – All structural fasteners are high-strength galvanized carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel or stainless steel.

FINISH – Standard powder-coat finishes include Dark Bronze, White, Black, Medium Bronze and Natural Aluminum colors. Classic finishes include Sandstone, Charcoal Gray, Tennis Green, Bright Red and Steel Blue colors. Architectural Colors and Special Finishes are available by quote and include, but are not limited to Hot-dipped Galvanized, Paint over Hot-dipped Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes. Factory-applied primer paint finish is available for customer field-paint applications.

WARRANTY — 1-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms\_and\_conditions.aspx

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

| ORDER  | ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. <b>Example:</b> SSS 20 5C DM19 D |  |   |  |   |  |  |  |  |
|--------|---|--|---|--|---|--|--|--|--|
| SSS    |   |  |   |  |   |  |  |  |  |
| Series | Nominal fixture<br>mounting height  | Nominal shaft base<br>size/wall thickness <sup>1</sup> | Mounting <sup>2</sup>   |  | Options   | Finish <sup>10</sup>   |  |  |  |
| 555    | (See technical<br>information table.)   | (See technical<br>information table.)                  | Tenon mountingPTOpen top (includes top cap)T20 $2-3/8"$ 0.D. (2" NPS)T25 $2-7/8"$ 0.D. (2-1/2" NPS)T30 $3-1/2"$ 0.D. (3" NPS)T354" 0.D. (3-1/2" NPS)KAC/KAD/KSE/KSF/KVR/KVF Drill mounting <sup>3</sup> DM191 at 90°DM282 at 180°DM282 at 180° with one side pluggedDM292 at 90°DM393 at 90°DM494 at 90°CSX/DSX/AERIS™/OMERO™ Drill mounting <sup>3</sup> DM19AS1 at 90°DM28AS2 at 180°DM39AS3 at 90°DM39AS3 at 90°DM49AS4 at 90° | AERIS™ Suspend drill<br>mounting <sup>3,4</sup> DM19AST_ 1 at 90°   DM28AST_ 2 at 180°   DM29AST_ 3 at 90°   DM39AST_ 3 at 90°   DM49AST_ 4 at 90°   OMERO™ Suspend drill<br>mounting <sup>3,4</sup> DM19MRT_   DM19MRT_ 1 at 90°   DM28MRT_ 2 at 180°   DM29MRT_ 2 at 90°   DM39MRT_ 3 at 90°   DM39MRT_ 3 at 90°   DM49MRT_ 4 at 90° | Shipped installedL/ABLess anchor boltsVDVibration damperTPTamper resistant<br>handhile cover<br>fastenersHAxyHorizontal arm<br>bracket (1 fixture) <sup>5,6</sup> FDLxyFestoon outlet less<br>electrical <sup>5</sup> CPL12/xy1/2" coupling <sup>5</sup> CPL12/xy3/4" coupling <sup>5</sup> CPL12/xy1/2" threaded nipple <sup>5</sup> NPL12/xy1/2" threaded nipple <sup>5</sup> NPL12/xy3/4" threaded nipple <sup>5</sup> NPL1/xy1" threaded nipple <sup>5</sup> EHHxyExtra handhole <sup>5,7</sup> MAEXMatch existiing <sup>8</sup> USPOMUnited States point of<br>manufacture <sup>9</sup> ICInterior coating <sup>10</sup> | Standard colorsDDBDark bronzeDWHWhiteDBLBlackDMBMedium bronzeDNANatural<br>aluminumClassic colorsDSSSandstoneDGCCharcoal grayDTGTennis greenDBRBright redDSBSteel blueArchitectural Colors and<br>Special Finishes111Galvanized, Paint over<br>Galvanized, RAL Colors,<br> |  |  |  |

Notes

Catalog

Number

Туре

Anchor Base Poles

SSS

**SQUARE STRAIGHT STEEL** 

See footnotes next page.

#### NOTES:

- 1. Wall thickness will be signified with a "C" (7 Gauge) or a "G" (11-gauge) in nomenclature. "C" - 0.1196" "G" - 0.1793.
- 2. PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, follow this example: DM28/T20. The combination includes a required extra handhole.
- 3. The drilling template pattern to be used for a particular luminaire depends on the luminaire that is used. Refer to the Technical Data Section of the Outdoor Binder for Drilling Templates.

Matrix with Generic Template Link at http://www.acuitybrands.com/-/ media/Files/Acuity/Resources/Tools-and-Documents/Pole%20Resources/ Pole%20Anchorage/Matrix%20Document/AnchorBoltMatrix.pdf?la=en

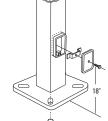
- 4. Insert "1" or "2" to designate fixture size; e.g. DM19AST2.
- Specify location and orientation when ordering option. 5. For "x": Specify the height above the base of pole in feet or feet and inches: separate feet and inches with a "-" *Example:* 5ft = 5 *and* 20ft, 3 *in* = 20-3For "y": Specify orientation from handhole (A,B,C,D) Refer to the Handhole Orientation diaaram below.
  - Example: 1/2" coupling at 5'8", orientation C: SSS 20 5C DM19 CPL12/5-8BC DDB
- Horizontal arm is 18" x 2-3/8" O.D. tenon standard, with radius curve 6. providing 12" rise and 2-3/8" 0.D..
- 7. Combination of tenon-top and drill mount includes extra handhole.

- Must add original order number of existing pole(s).
- 9. Use when mill certifications are required.
- 10. Provides enhanced corrosion resistance.
- 11. Additional colors available; see www.lithonia.com/archcolors or Architectural Colors brochure (Form No. 794.3). Available by formal quote only, consult factory for details.

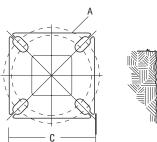
| TECHNICAL INFORMATION — EPA (ft <sup>2</sup> ) WITH 3-SECOND GUST PER AASHTO 2013 |                         |                    |        |                |         |                |         |                |         |                |         |                |         |                |         |                |
|---|-------------------------|--------------------|--------|----------------|---------|----------------|---------|----------------|---------|----------------|---------|----------------|---------|----------------|---------|----------------|
| Series  | Mounting<br>Height (ft) | Shaft Base<br>Size | 90 MPH | Max.<br>weight | 100 MPH | Max.<br>weight | 110 MPH | Max.<br>weight | 120 MPH | Max.<br>weight | 130 MPH | Max.<br>weight | 140 MPH | Max.<br>weight | 150 MPH | Max.<br>weight |
| SSS   | 10                      | 4C                 | 20     | 500            | 16      | 400            | 13      | 325            | 10.5    | 263            | 8.5     | 213            | 7       | 175            | 6       | 150            |
| SSS   | 12                      | 4C                 | 16     | 400            | 13      | 325            | 10      | 250            | 8       | 200            | 6.5     | 163            | 5       | 125            | 4       | 100            |
| SSS   | 14                      | 4C                 | 13.5   | 338            | 10      | 250            | 7.5     | 188            | 6       | 150            | 4.5     | 113            | 3.5     | 88             | 2.5     | 63             |
| SSS   | 16                      | 4C                 | 10.5   | 263            | 7.5     | 188            | 5.5     | 138            | 4       | 100            | 3       | 75             | 1.5     | 38             | 1       | 25             |
| SSS   | 18                      | 4C                 | 8      | 200            | 5.5     | 138            | 4       | 100            | 2.5     | 63             | 1.5     | 38             | 0.5     | 13             | -       | -              |
| SSS   | 20                      | 4C                 | 6      | 150            | 4       | 100            | 2.5     | 63             | 1       | 25             | -       | -              | -       | -              | -       | -              |
| SSS   | 20                      | 5C                 | 10     | 250            | 7       | 175            | 4.5     | 113            | 2.5     | 63             | 1       | 25             | -       | -              | -       | -              |
| SSS   | 20                      | 5G                 | 14     | 350            | 10      | 250            | 7       | 175            | 5       | 125            | 3       | 75             | 1.5     | 38             | 0.5     | 13             |
| SSS   | 25                      | 4C                 | 2      | 50             | 0.5     | 13             | -       | -              | -       | -              | -       | -              | -       | -              | -       | -              |
| SSS   | 25                      | 4G                 | 5.5    | 138            | 3       | 75             | 1.5     | 38             | -       | -              | -       | -              | -       | -              | -       | -              |
| SSS   | 25                      | 5C                 | 4.5    | 113            | 2       | 50             | -       | -              | -       | -              | -       | -              | -       | -              | -       | -              |
| SSS   | 25                      | 5G                 | 7.5    | 188            | 4.5     | 113            | 2       | 50             | 0.5     | 13             | -       | -              | -       | -              | -       | -              |
| SSS   | 30                      | 4G                 | 1.5    | 38             | -       | -              | -       | -              | -       | -              | -       | -              | -       | -              | -       | -              |
| SSS   | 30                      | 5C                 | -      | -              | -       | -              | -       | -              | -       | -              | -       | -              | -       | -              | -       | -              |
| SSS   | 30                      | 5G                 | 2.5    | 63             | -       | -              | -       | -              | -       | -              | -       | -              | -       | -              | -       | -              |
| SSS   | 30                      | 6G                 | 11     | 275            | 6       | 150            | 2.5     | 63             | -       | -              | -       | -              | -       | -              | -       | -              |
| SSS   | 35                      | 5G                 | -      | -              | -       | -              | -       | -              | -       | -              | -       | -              | -       | -              | -       | -              |
| SSS   | 35                      | 6G                 | 4      | 100            | -       | -              | -       | -              | -       | -              | -       | -              | -       | -              | -       | -              |
| SSS   | 39                      | 6G                 | -      | -              | -       | -              | -       | -              | -       | -              | -       | -              | -       | -              | -       | -              |

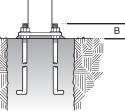
AASHTO 2013 criteria is the most conservative existing EPA calculation. For poles not showing EPA values under AASHTO 2013, EPA values may exist under commercial criteria. Consult Outdoor Tech support to obtain these values.

## **BASE DETAIL**

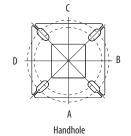


| POLE DATA          |                     |                         |                     |                      |                            |                                 |  |  |  |  |  |
|--------------------|---------------------|-------------------------|---------------------|----------------------|----------------------------|---------------------------------|--|--|--|--|--|
| Shaft base<br>size | Bolt<br>circle<br>A | Bolt<br>projection<br>B | Base<br>square<br>C | Template description | Anchor bolt<br>description | Anchor bolt and template number |  |  |  |  |  |
| 4"C                | 8" – 9"             | 2-3/4"-4"               | 8"                  | ABTEMPLATE PJ50004   | AB18-0                     | ABSSS-4C                        |  |  |  |  |  |
| 4"G                | 8" - 9"             | 2-3/4"-4"               | 8"                  | ABTEMPLATE PJ50004   | AB30-0                     | ABSSS-4G                        |  |  |  |  |  |
| 5"                 | 10" – 12"           | 3-3/8"-4"               | 11"                 | ABTEMPLATE PJ50010   | AB36-0                     | ABSSS-5                         |  |  |  |  |  |
| 6"                 | 11" – 13"           | 3-3/8"-4"               | 12-1/2"             | ABTEMPLATE PJ50011   | AB36-0                     | N/A                             |  |  |  |  |  |





### HANDHOLE ORIENTATION



### IMPORTANT INSTALLATION NOTES:

Do not erect poles without having fixtures installed

 Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

- · If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.

· Lithonia Lighting is not responsible for the foundation design.

#### IMPORTANT:

• These specifications are intended for general purposes only. Lithonia reserves the right to change material or design, without prior notice, in a continuing effort to upgrade its products.



POLE-SSS