



# Autonomous Solar Street Light

## SMARTLIGHT SINGLE - OPERA



Project:

Notes:

| Fixt<br>ure | Temp | Type | Solar | Power<br>Center | Option | Pole | Color<br>(Pole) | Color<br>(Fixt<br>ure) | Tilt<br>Panel |
|-------------|------|------|-------|-----------------|--------|------|-----------------|------------------------|---------------|
| [ OPERA ]   | -    | -    | -     | -               | -      | -    | -               | -                      | -             |

### The Most Reliable Solar Lighting in the World

We keep our solutions simple with Smartlight—one proven, powerful solar light that meets a wide range of needs. Its unique black solar panel looks elegant, day or night. No hanging wires or bulky battery box. No solar panel that looks like a high school science project. We use powerful components and smart controls to provide all the energy you need in a sleek package, so you can count on all-night lighting all year around.

**175,000**  
SmartLight Systems Installed Worldwide

**365**  
Nights of Lighting per Year Guaranteed

**5 Years**  
Warranty, Including the Battery With No Pro-Rating

**\$0**  
Zero Trenching Cost, Zero Electric Bills and Zero Maintenance for 10 Years



# OPERA SINGLE SMARTLIGHT



| LUMINAIRE PRODUCT CODE | COLOR TEMP | DISTRIBUTION               | COLOR  | DIMENSIONS               |
|------------------------|------------|----------------------------|--|--------------------------|
| Opera                  | 2.7K,3K,4K | T2, T3, T4, CW (Crosswalk) | Marble Rose- Rose Gold Fixture, Black Arm and Pasqua Pole        | 19.5" H x 17.5" Diameter |
|                        |            |                            | Marble Blue - Ice Patina Fixture, Black Arm, Sea of Marmara Pole | 18.3LBS/2.34 EPA         |
| Custom                 |            |                            |  |                          |

| SOLAR MODULE ASSEMBLY PRODUCT CODE / DESCRIPTION  | DIMENSIONS SOLAR MODULE | MODULE FRAME & BACK SHEET |
|---|-------------------------|---------------------------|
| <b>P160F</b> 160W PolyCrystalline Solar Module with Steel Mount - Tilt Adjustment (0,10,25 or 45 Degree) Mount Galvanized and Powder Coated. IEC 61730-1:2019 and IEC 61215-2:2017 Includes Hydrophobic Coating | 43.31 x 33.46 x 1.57    | Black                     |
| <b>P270F</b> 270W PolyCrystalline Solar Module with Steel Mount - Tilt Adjustment (0,10,25 or 45 Degree) Mount Galvanized and Powder Coated IEC 61730-1:2019 and IEC 61215-2:2017 Includes Hydrophobic Coating  | 66.93 x 40.55 x 1.81    | Black                     |
| <b>P310F</b> 305W PolyCrystalline Solar Module with Steel Mount - Tilt Adjustment (0,10,25 or 45 Degree) Mount Galvanized and Powder Coated IEC 61730-1:2019 and IEC 61215-2:2017 Includes Hydrophobic Coating  | 66.93 x 42.13 x 1.57    | Black                     |

| Heavy Duty Mount Adder (Required with 45 degree tilt) |   |
|---|---|
| HW-MC   | Heavy Duty Mount Galvanized with Marine Powder Coat Upgrade - Powder Coated Black |

| POWER 365 ASSEMBLY PRODUCT CODE / DESCRIPTION |  |
|---|--|
| <b>2P</b>                                     | Power 365 Power Center with 624 Wh NiMH Battery Capacity-IP65  |
| <b>3P</b>                                     | Power 365 Power Center with 936 Wh NiMH Battery Capacity-IP65  |
| <b>4P</b>                                     | Power 365 Power Center with 1248 Wh NiMH Battery Capacity-IP65 |

| BATTERIES             |  |
|-----------------------|--|
| Chemistry             | Nickel Metal Hydride                                   |
| Operating Temperature | -40°F to +158°F (-40°C to +70°C)                       |
| Warranty              | 5 Year Full Replacement                                |
| Certifications        | EN 550 14-1 ; EN 55014-2 ; EN 61000-6-2 ; EN 61000-6-3 |

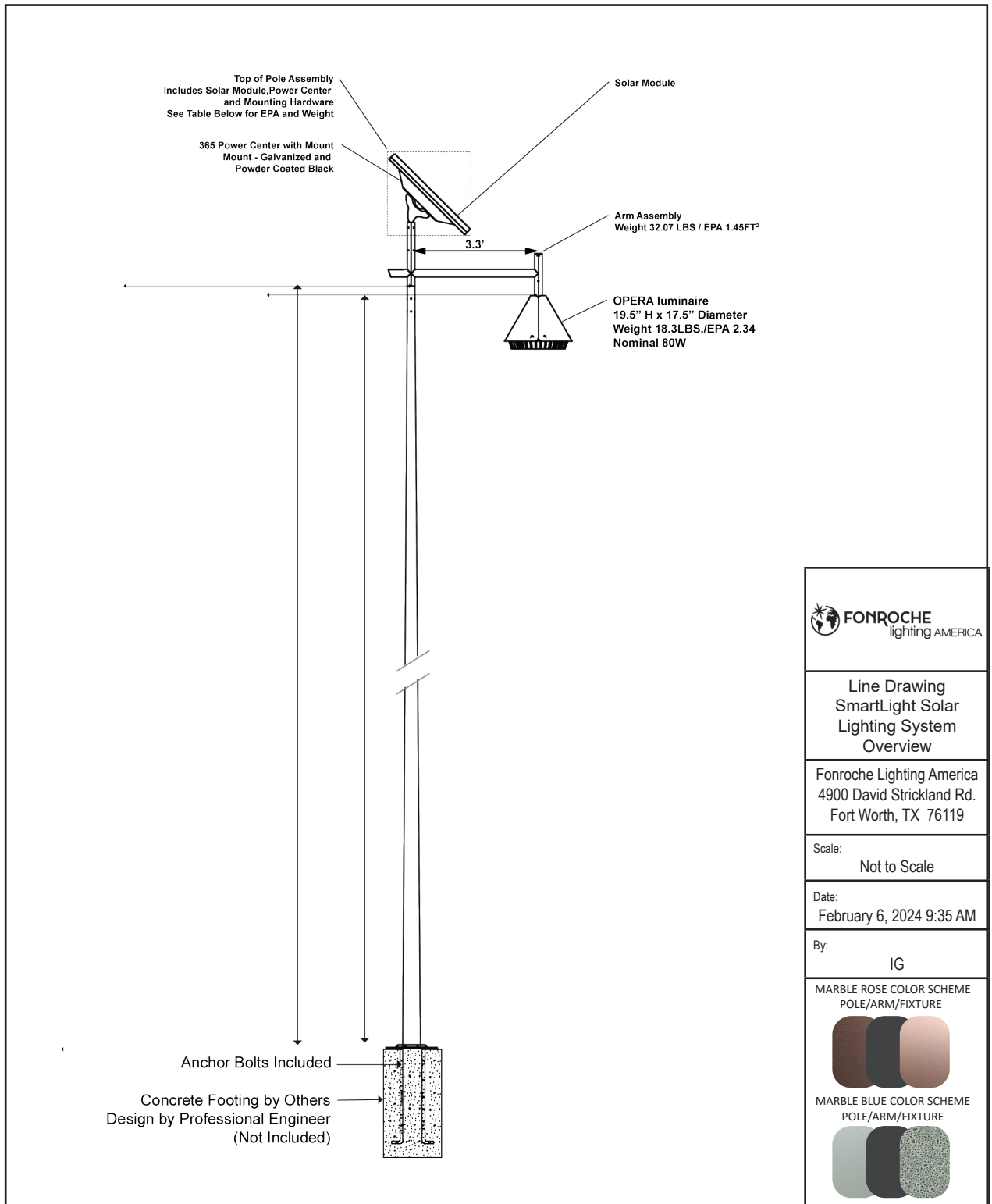
| Controller                             |  |
|--|--|
| Battery Management System (BMS)        |  |
| Anti-Black Out Control                 |  |
| 3-Level Programmable Lighting Profiles |  |

| TOTAL TOP OF POLE ASSEMBLY - PANEL, MOUNTING, 365 POWER CENTER |        |        |        |          |          |          |
|--|--------|--------|--------|----------|----------|----------|
| Solar Assembly   | 2P     | 3P     | 4P     | 10° Tilt | 25° Tilt | 45° Tilt |
| P160F-HW-MC  | 113.31 | 123.89 | 134.48 | 2.36     | 4.99     | 7.67     |
| P270F-HW-MC  | 130.95 | 141.53 | 152.12 | 4.62     | 9.99     | 16.02    |
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| System Warranty and Certification |          |
|-----------------------------------|----------|
| System Warranty                   | 5 Years  |
| Solar Performance Warranty        | 25 Years |
| System Certification              | CE       |

| POLE SELECTED BASED ON PROJECT CONDITIONS |                                   | ARM                     |            |         |
|---|-----------------------------------|-------------------------|------------|---------|
| PRODUCT CODE / DESCRIPTION                | NOMINAL HEIGHT AG/MOUNTING HEIGHT | ARM LENGTH/FINISH       | ARM WEIGHT | ARM EPA |
| 14Ft. Round Tapered Pole-Anchor Base      | 14'/13'                           | 3.3'/ Black Powder Coat | 32.07 LBS  | 1.45    |
| 20Ft. Round Tapered Pole-Anchor Base      | 20'/19'                           | 3.3'/ Black Powder Coat | 32.07 LBS  | 1.45    |
| 25Ft. Round Tapered Pole-Anchor Base      | 25'/24'                           | 3.3'/ Black Powder Coat | 32.07 LBS  | 1.45    |
| 30Ft. Round Tapered Pole-Anchor Base      | 30'/29'                           | 3.3'/ Black Powder Coat | 32.07 LBS  | 1.45    |
| 14Ft. Round Tapered Pole-Direct Burial    | 14'/13'/Embed Depth 3' 9-1/4"     | 3.3'/ Black Powder Coat | 32.07 LBS  | 1.45    |
| 20Ft. Round Tapered Pole-Direct Burial    | 20'/19'/Embed Depth 4' 5-1.4"     | 3.3'/ Black Powder Coat | 32.07 LBS  | 1.45    |
| 25Ft. Round Tapered Pole-Direct Burial    | 25'/24'/Embed Depth 5' 0"         | 3.3'/ Black Powder Coat | 32.07 LBS  | 1.45    |
| 30Ft. Round Tapered Pole-Direct Burial    | 30'/29'/Embed Depth Contact Rep.  | 3.3'/Black Powder Coat  | 32.07 LBS  | 1.45    |
| CST - Pole                                |                                   |                         |            |         |

| [ OPERA - _____ ]-[ _____ ]- | _____ | _____ | _____ | _____        | _____  | _____ | _____        | _____           | _____      |
|------------------------------|-------|-------|-------|--------------|--------|-------|--------------|-----------------|------------|
| Fixture                      | Temp  | Type  | Solar | Power Center | Option | Pole  | Color (Pole) | Color (Fixture) | Tilt Panel |



**FONROCHE**  
lighting AMERICA

Line Drawing  
SmartLight Solar  
Lighting System  
Overview

Fonroche Lighting America  
4900 David Strickland Rd.  
Fort Worth, TX 76119

Scale:  
Not to Scale

Date:  
February 6, 2024 9:35 AM

By:  
IG

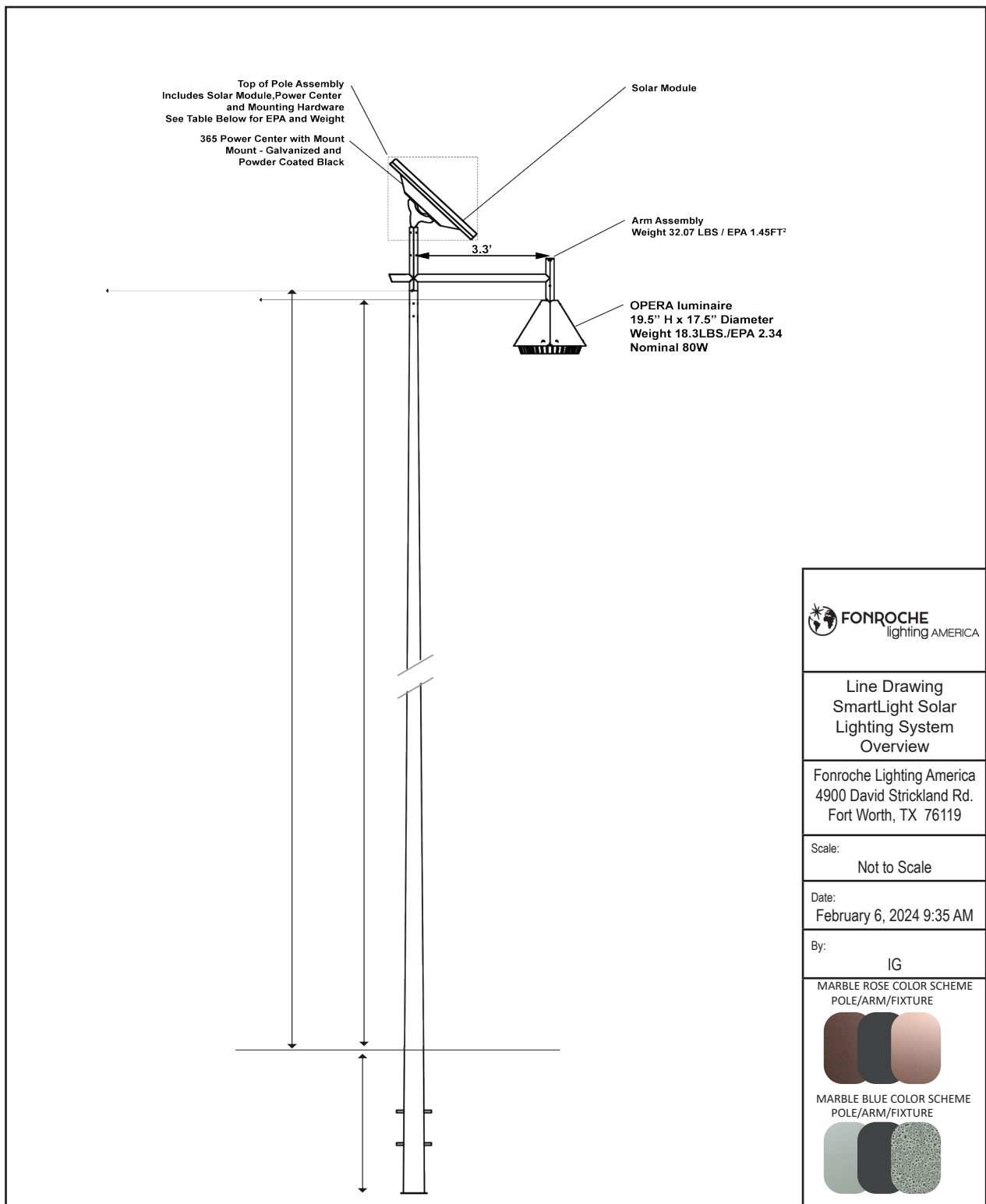
MARBLE ROSE COLOR SCHEME  
POLE/ARM/FIXTURE

MARBLE BLUE COLOR SCHEME  
POLE/ARM/FIXTURE

| TOTAL TOP OF POLE ASSEMBLY - PANEL, MOUNTING, 365 POWER CENTER |                 |        |        |        |               |          |          |  |
|--|-----------------|--------|--------|--------|---------------|----------|----------|--|
|  | Weight (Pounds) |        |        |        | EPA (Sq. Ft.) |          |          |  |
| Solar Assembly   | 1P              | 2P     | 3P     | 4P     | 10° Tilt      | 25° Tilt | 45° Tilt |  |
| P160F-HW-MC  | 102.73          | 113.31 | 123.89 | 134.48 | 2.67          | 3.89     | 7.45     |  |
| P270F-HW-MC  | 120.37          | 130.95 | 141.53 | 152.12 | 4.48          | 7.24     | 13.93    |  |
| P310F-HW-MC  | 120.37          | 130.95 | 141.53 | 152.12 | 4.48          | 7.38     | 14.36    |  |



|         |      |      |       |              |        |      |              |                 |      |       |
|---------|------|------|-------|--------------|--------|------|--------------|-----------------|------|-------|
| [ OPERA | -    | -    | -     | -            | -      | -    | -            | -               | -    | -     |
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POLE/ARM/FIXTURE

MARBLE BLUE COLOR SCHEME  
POLE/ARM/FIXTURE

**TOTAL TOP OF POLE ASSEMBLY - PANEL, MOUNTING, 365 POWER CENTER**

| Solar Assembly | Weight (Pounds) |        |        |        | EPA (Sq.Ft.) |          |          |
|----------------|-----------------|--------|--------|--------|--------------|----------|----------|
|                | 1P              | 2P     | 3P     | 4P     | 10° Tilt     | 25° Tilt | 45° Tilt |
| P160F-HW-MC    | 102.73          | 113.31 | 123.89 | 134.48 | 2.67         | 3.89     | 7.45     |
| P270F-HW-MC    | 120.37          | 130.95 | 141.53 | 152.12 | 4.48         | 7.24     | 13.93    |
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