



SMARTLIGHT OPERA TWIN

Notes:

2[Opera - -]-[Solar -]- Option -

Fixture Temp Type Pole Color (Pole) Color (Fixture) Tilt Panel



OPERA TWIN SMARTLIGHT

LUMINAIRE PRODUCT CODE	COLOR TEMP	DISTRIBUTION	COLOR SCHEMES	WEIGHT LBS EA.	EPA Ft² EA.
2[Opera Twin Opera	2700K, 3000K, 4000K, AMBER	T2,T3,T4,CW (Crosswalk)	6 Color Schemes - See Chart Page 1	18.3	2.34

SOLAR ASSEMBLY/ PRODUCT CODE	DESCRIPTION	DIMENSIONS SOLAR MODULE (INCHES)	MODULE BACK SHEET/FRAME FINISH
P190F	190W PolyCrystalline Solar Module with Steel Mount - No Slip Tilt Adjustment (10,45 Degree) Mount Galvanized and Powder Coated. IEC 61730-1:2019 and IEC 61215-2:2017	44.29 x 37.6 x 1.37	Black/Black Adonized Aluminum
P310F	310W PolyCrystalline Solar Module with Steel Mount - No Slip Tilt Adjustment (10,45 Degree) Mount Galvanized and Powder Coated. IEC 61730-1:2019 and IEC 61215-2:2018	64.76 x 37.6 x 1.37	Black/Black Adonized Aluminum
P410F	410W PolyCrystalline Solar Module with Steel Mount - No Slip Tilt Adjustment (10,45 Degree) Mount Galvanized and Powder Coated. IEC 61730-1:2019 and IEC 61215-2:2019	67.8 x 44.65 x 1.37	Black/Black Adonized Aluminum

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

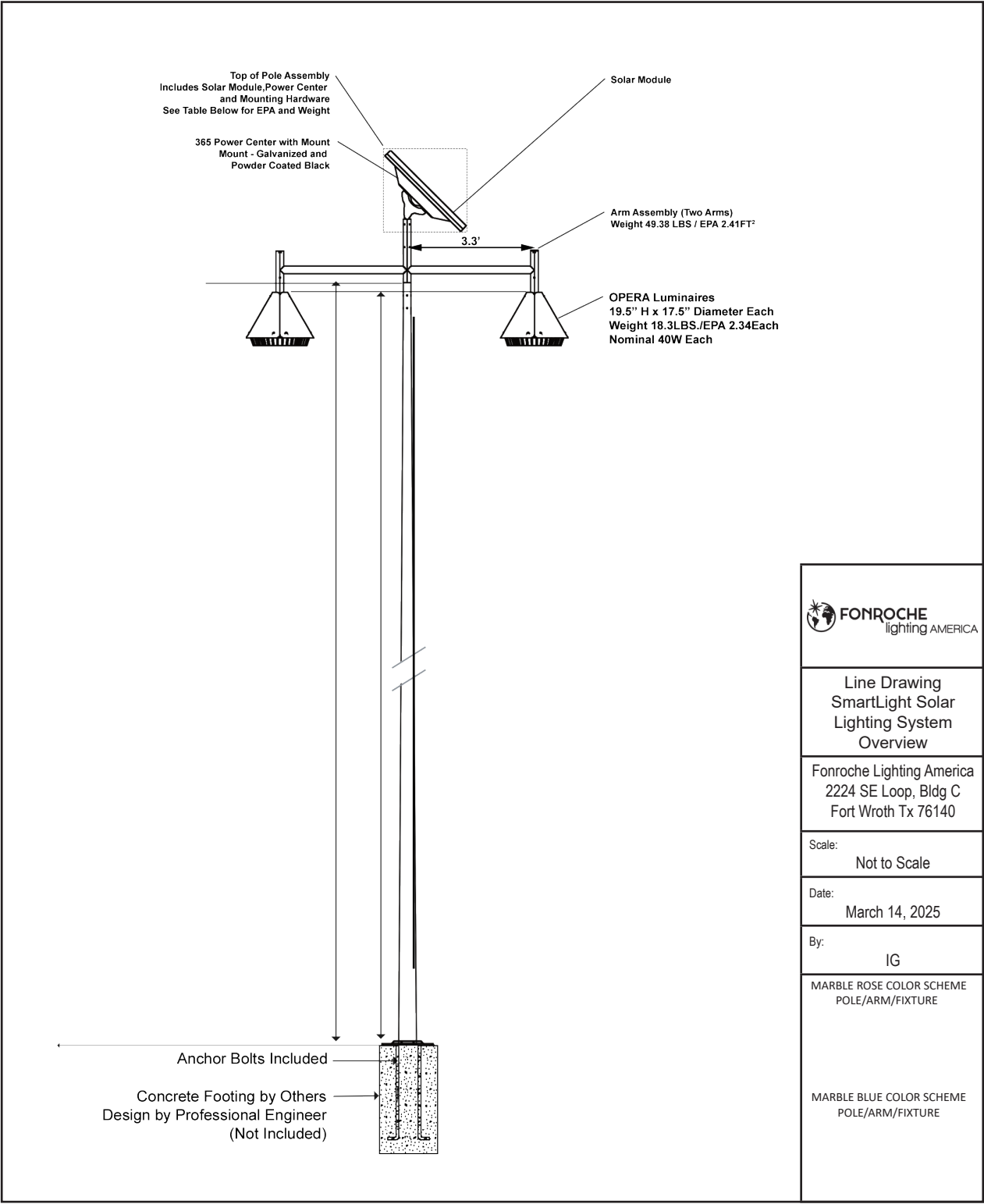
POWER 365 ASSEMBLY PRODUCT CODE / DESCRIPTION	CHEMISTRY	OPERATING TEMPERATURE	CHARGING TEMPERATURE
2P Power 365 Power Center with 624 Wh Battery Capacity-IP65	Nickel Metal Hydride (NiMH)	-40°F to + 158°F (-40°C to +70°C)	-40°F to + 158°F (-40°C to +70°C)
3P Power 365 Power Center with 936 Wh Battery Capacity-IP65	Nickel Metal Hydride (NiMH)	-40°F to + 158°F (-40°C to +70°C)	-40°F to + 158°F (-40°C to +70°C)
4P Power 365 Power Center with 1248 Wh Battery Capacity-IP65	Nickel Metal Hydride (NiMH)	-40°F to + 158°F (-40°C to +70°C)	-40°F to + 158°F (-40°C to +70°C)
6P Power 365 Power Center with 1935 Wh Battery Capacity-IP65	Lithium Iron Phosphate (LFP)	14°F to + 140°F (-10°C to +60°C)	32°F to +113°F (-0°C to +45°C)

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

FULL SYSTEM WARRANTY	SOLAR PANEL PERFORMANCE WARRANTY	SYSTEM CERTIFICATION
8 Years Parts and Labor / No Pro-Rating	25 Years	CE

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

2[	Opera	-	-	]-[	-	]-	-
	Fixture		Temp	Type	Solar	Power Center	Option
				-	-		
Pole		Color (Pole)		Color (Fixture)		Tilt Panel	





Line Drawing
SmartLight Solar
Lighting System
Overview

Fonroche Lighting America
2224 SE Loop, Bldg C
Fort Wroth Tx 76140

Scale:
Not to Scale

Date:
March 14, 2025

By:
IG

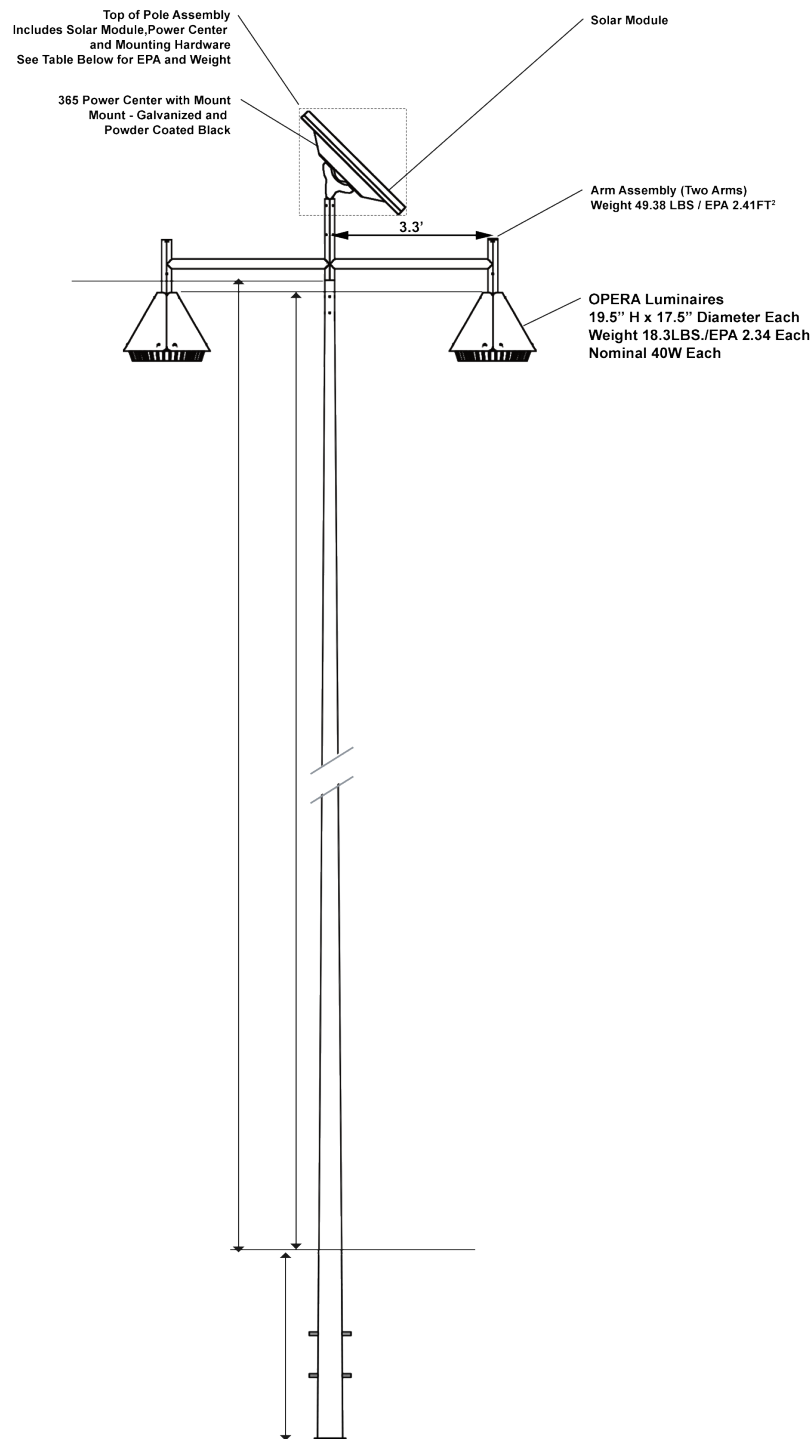
MARBLE ROSE COLOR SCHEME
POLE/ARM/FIXTURE

MARBLE BLUE COLOR SCHEME
POLE/ARM/FIXTURE

SOLAR ASSEMBLY	BATTERY ASSEMBLY				EPA (Sq.Ft.)	
	2P	3P	4P	6P	10° Tilt	45° Tilt
P190F-HW-MC	113.76	124.34	134.93	130.52	2.82	9.32
P310F-HW-MC	131.40	141.98	152.57	148.16	3.98	14.19
P410F-HW-MC	136.25	146.83	157.42	153.00	4.88	17.13



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Opera

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Fixture

Temp

Type

Solar

Power Center

Option

Pole

Color (Pole)

Color (Fixture)

Tilt Panel