



Autonomous Solar Street Light

SMARTLIGHT ESSENTIAL TWIN

Project:

Notes:

2[	T54-CK 16B	-	-	-	]-[	-	-	]-	-
	Fixture	Temp	Type	House Shield		Solar	Power Center	Option	
Pole					Color (Pole)	Color (Fixture)	Tilt Panel		

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

8 Years

Parts & Labor Warranty, Including the Battery with **No Pro-Rating**

\$0

Zero Trenching Cost, Zero Electric Bills, and Zero Maintenance for 10 Years



**DARKSKY
APPROVED**
Reduces light pollution
Certified by DarkSky.org

ESSENTIAL TWIN SMARTLIGHT

LUMINAIRE PRODUCT CODE	NAME	COLOR TEMP	DISTRIBUTION	COLOR	HOUSE SIDE SHIELD OPTION	WEIGHT LBS EA.	EPA FT² EA.
2[T54-CK 16B	Twin Essential	2700K, 3000K, 4000K	T2,T3,T4,CW (Cross Walk)	Black	NA	7	0.25

Custom

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
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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

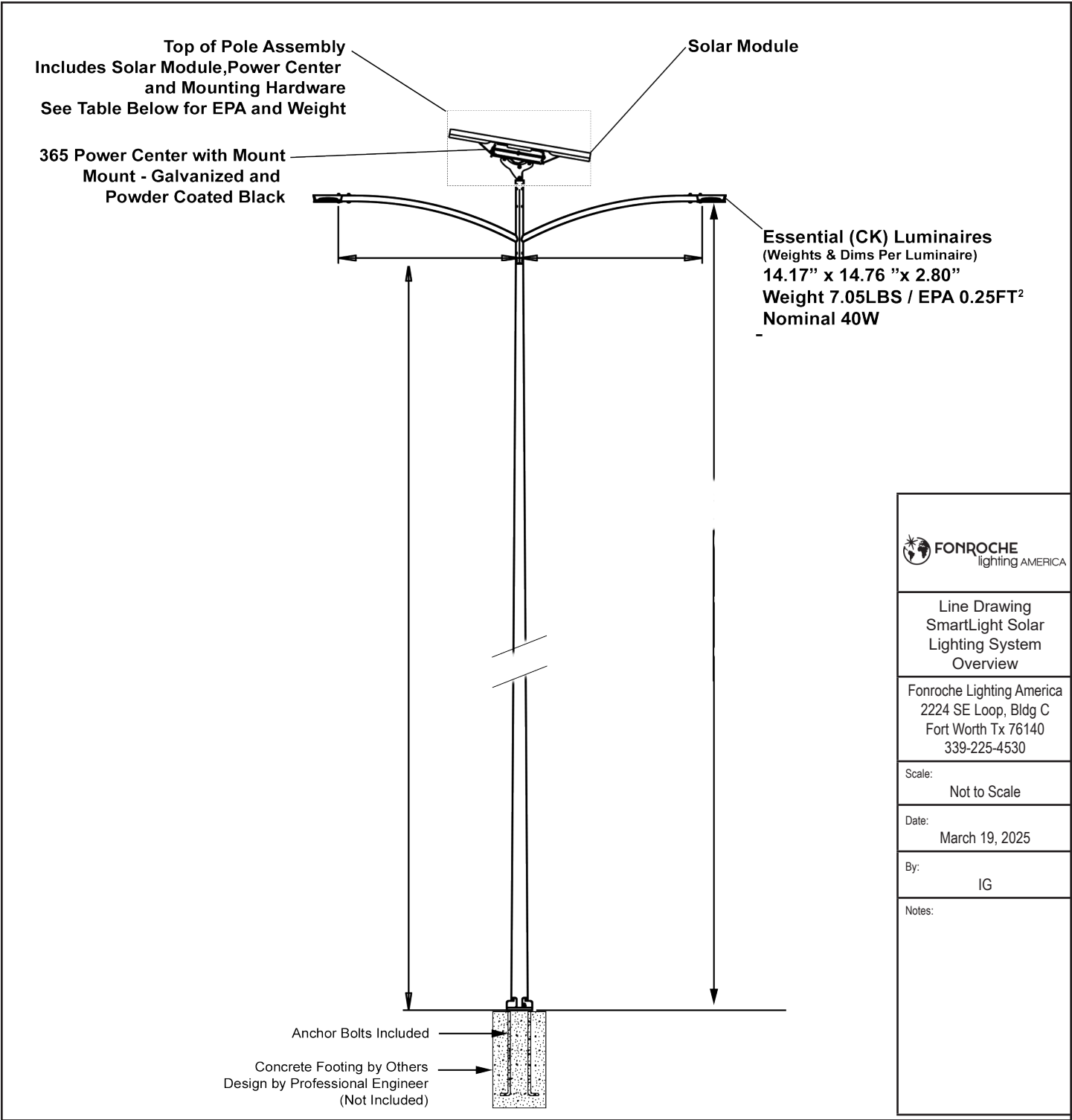
Battery Management System (BMS) | Anti-Black Out Control | 3-Level Programmable Lighting Profiles

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 ASSEMBLY	
PRODUCT CODE / DESCRIPTION	NOMINAL HEIGHT/ MOUNTING HEIGHT	EMBED DEPTH	4' TWIN ARM ASSY. WEIGHT/EPA	6' TWIN ARM ASSY. WEIGHT/EPA
14Ft. Round Tapered Pole-Anchor Base-2	14'/16	NA	43.93 LBS. / 2.26 FT²	58.39 LBS. / 2.56 FT²
20Ft. Round Tapered Pole-Anchor Base-2	20'/22'	NA	43.93 LBS. / 2.26 FT²	58.39 LBS. / 2.56 FT²
25Ft. Round Tapered Pole-Anchor Base-2	25'/27'	NA	43.93 LBS. / 2.26 FT²	58.39 LBS. / 2.56 FT²
30Ft. Round Tapered Pole-Anchor Base-2	30'/32'	NA	43.93 LBS. / 2.26 FT²	58.39 LBS. / 2.56 FT²
14Ft. Round Tapered Pole-Direct Burial-2	14'/16'	3' 9-1/4"	43.93 LBS. / 2.26 FT²	58.39 LBS. / 2.56 FT²
20Ft. Round Tapered Pole-Direct Burial-2	20'/22'	4' 5-1/4"	43.93 LBS. / 2.26 FT²	58.39 LBS. / 2.56 FT²
25Ft. Round Tapered Pole-Direct Burial-2	25'/27'	5' 0"	43.93 LBS. / 2.26 FT²	58.39 LBS. / 2.56 FT²
30Ft. Round Tapered Pole-Direct Burial-2	30'/32'	Contact Representative	43.93 LBS. / 2.26 FT²	58.39 LBS. / 2.56 FT²

CST - Pole

2[	T54-CK 16B	-		-		-	] - [		-		-	]	-	
	Fixture		Temp		Type		House Shield		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 Worth Tx 76140
339-225-4530

Scale:
Not to Scale

Date:
March 19, 2025

By:
IG

Notes:

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

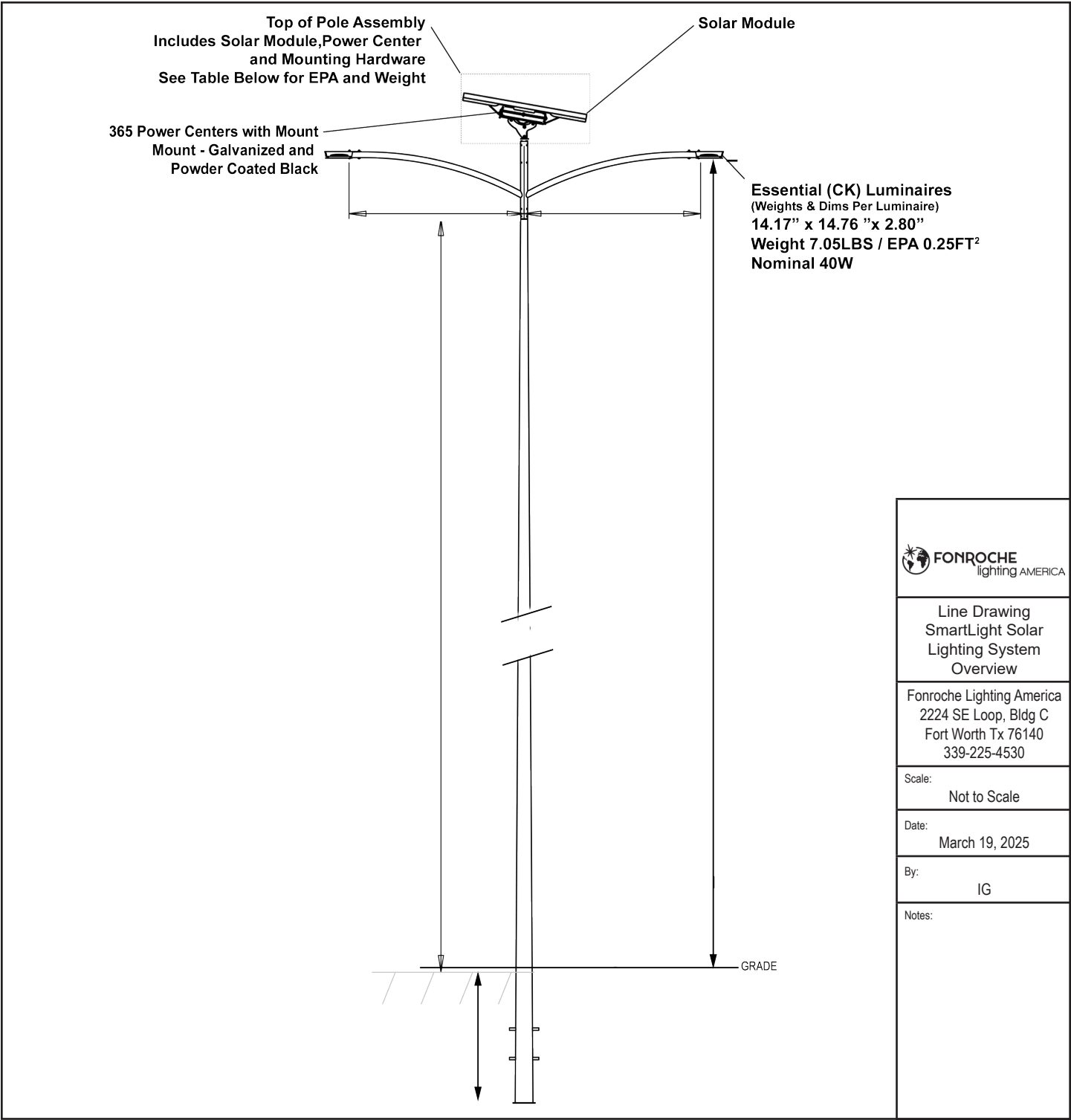


2[T54-CK 16B - - -]-[- - -]- - -

Fixture Temp Type House Shield Solar Power Center Option

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Pole Color (Pole) Color (Fixture) Tilt Panel





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