

EVERSOURCE

MUNICIPAL PROGRAM

PROPOSAL

Prepared for

Somerville Trum Field

MP250021

8/5/2025
Derrek Brown
617-835-8261
Derrek.Brown@aecom.com

ENERGY EFFICIENCY RECOMMENDATIONS

Somerville Trum Field
541 Broadway
Somerville, MA 02145
Garrett Anderson 617-625-6600 x 2429

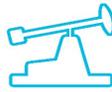
AECOM Job # MP250021
Electric Account # 74011134462
Gas Account #
Application #

<u>PROJECT COST / ANNUAL SAVINGS</u>	
Total Project Cost	\$ 210,524.94
Estimated Eversource Incentive	\$ 19,110.00
Customer Cost After Incentive	\$ 191,414.94
Estimated Annual Savings	\$ 46,650.24
5-Year Savings	\$ 233,251.20
Payback (in years)	4.1

SUMMARY OF SAVINGS



kWh Saved:
233,251.2



Gallons of Gasoline Saved: per EPA
18,557.7



Pounds of CO₂ Saved: per EPA
149,635.1

PAYMENT OPTIONS

LUMP SUM PAYMENT

- I choose to pay AECOM in full by Purchase Order. **Enclosed: \$191,414.94**
- I choose to pay AECOM in full by using this signed contract as a Notice to Proceed.

Customer's mailing address for invoice:

The above prices, specifications, and conditions are satisfactory and hereby accepted. AECOM is authorized to perform the work as specified. The Eversource incentive payment(s) is (are) hereby assigned to AECOM. This proposal may be withdrawn by AECOM or Eversource if not accepted within 30 days of the proposal date. Terms and Conditions are located on the following page.

Customer Signature: **X** _____ *Date:* _____

Title: _____

AECOM Authorized Signature: _____ Date: _____

CHANGE AUTHORIZATION

Customer acknowledges that the Total Project Cost has changed during construction. The revised amounts listed below are satisfactory and hereby accepted. Payment will be made as outlined below.

TOTAL PROJECT COST: _____ **EVERSOURCE INCENTIVE:** _____ **CUSTOMER COST:** _____

Customer Signature: _____ *Date:* _____

Title: _____

TERMS AND CONDITIONS

- The company and the customer agree that any alteration or deviation from the specifications set forth in the contract agreement, including extra costs will be executed on written orders, and may result in extra charges.
- AECOM shall keep and maintain adequate insurance coverage, including Workers' Compensation Insurance.
- All Agreements are contingent upon strikes, unexpected changes, or delays beyond our control.
- Customer has reviewed and agrees with the proposed scope of work.

Payment and other forms are to be mailed to the following address unless otherwise noted:

ATTN: ENERGY, AECOM Technical Services, Inc., 1 Federal St., 8th Floor, Boston, MA 02110

PRE-CONSTRUCTION / SCHEDULING

Once the contract is signed and processed, material will be ordered. An AECOM certified contractor will call to schedule the project, once material is available for delivery. AECOM will provide at least 48 hours' notice before contractors enter the building.

CONSTRUCTION

On site personnel must be available when contractors are in the building. Access to all affected electrical equipment will be necessary. Construction is assumed to be scheduled during regular business hours unless prior arrangements are made. If any issues arise during construction, please call your dedicated AECOM contact.

CHANGE ORDERS

This proposal is based on the walkthrough performed at your site. Certain issues, including access to all areas, seen and unseen electrical problems may result in changes in the scope of work required. AECOM will notify you of any changes and upon approval will implement the measures required to complete the project. You will be required to sign off on all change orders.

DISPOSAL / RECYCLING

AECOM will notify the recycling contractor at the completion of installation to provide removal and disposal of the old lamps and ballasts. Disposal of old fixtures and trash to be provided at customer's expense if needed.

WARRANTIES

AECOM to provide a one (1) year warranty on labor and materials. Additional material warranties are available by manufacturer.

I have reviewed and agree to the Terms and Conditions listed above.

Initials **X** _____

MP250021

Eversource Municipal Program Energy Efficiency Recommendations Estimated Return On Investment

APPLICATION NO: 0
AECOM JOB NO: MP250021
FACILITY NAME: Somerville Trum Field
ADDRESS: 541 Broadway
CITY / STATE / ZIP CODE: Somerville, MA 02145
CONTACT: Garrett Anderson
PHONE: 617-625-6600 x 2429

AUDIT DATE: 4/7/2025
AVG. KWH RATE: \$0.20
AUDITOR: Derrek Brown
AUDITOR PHONE: 617-835-8261
ACCT NO: 74011134462
FID NO/STATUS: 046-001-414

	Installation Site	Device Description	Qty	Total kW Saved	Estimated Weekly Existing Hours	Annual kWh Saved
1	FIELD LIGHTS	600W LED Sports Floodlight Fixture	49	106.26	40	221,020.8
2	FIELD LIGHTS	Bracket for sports light	49			0.0
3	CONTROLS	Wireless Controls	49		8	12,230.4
4	FIELD LIGHTS	Lift Rental	1			0.0
5	FIELD LIGHTS	Dumpster Rental	1			0.0
6	FIELD LIGHTS	Permit included	1			0.0
7						
8						
9						
10						
TOTALS:				106.26		233,251.2

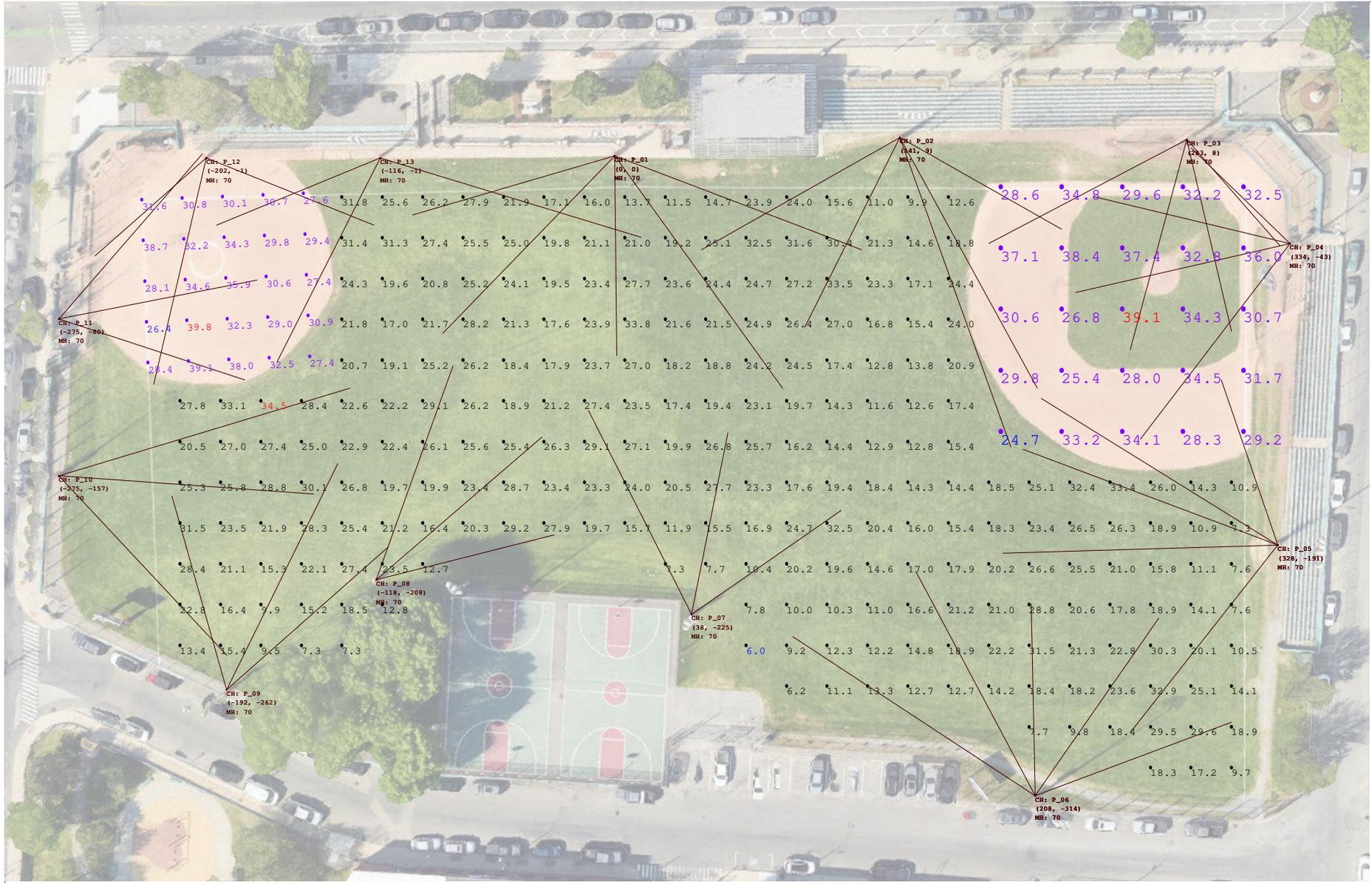
* The incentive is estimated and will need to be confirmed by the utility provider.

Total Cost	Incentive*	Net Cost
\$210,524.94	\$19,110.00	\$191,414.94

* 6 Year Manufacturer's Warranty on SLG products

Wireless Controls Include:

- 1 Central Base Station (installed in press box) – Control Hub (On-Site Access Included) (Off-Site Remote Access will be additional yearly fee)
- 1 Year Off-Site Remote Access



Project Name:	MA-Somerville Trum Field (BB)
Version No:	v1
Date:	6/25/2025
Drawn By:	Edwin Liwag

Luminaire Schedule						
Scene: Fields						
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
	49	F2	Single	90500	0.900	FSP 900 N3 G2 HVU 57K

Calculation Summary													
Scene: Fields													
Label	CalcType	Units	Field Size	Avg	Max	Min	Avg/Min	Max/Min	# Pts	CV	UG	PtSpcLr	PtSpcTb
BB-Infield	Illuminance	Fc		31.99	39.1	24.7	1.30	1.58	25	0.12	1.46	30	30
Outfield	Illuminance	Fc		20.45	34.5	6.0	3.41	5.75	254	0.32	2.53	20	20
SB-Infield	Illuminance	Fc		31.82	39.8	26.4	1.21	1.51	25	0.12	1.51	20	20

Pole Summary		
Scene: Fields		
Channel	# Lums	MH
P 01	5	70
P 02	5	70
P 03	4	70
P 04	4	70
P 05	5	70
P 06	5	70
P 07	3	70
P 08	3	70
P 09	3	70
P 10	3	70
P 11	3	70
P 12	3	70
P 13	3	70

Pole Wattage Summary		
Scene: Fields		
Channel	Total Watts	Combined Total
P 01	3000	29400
P 02	3000	
P 03	2400	
P 04	2400	
P 05	3000	
P 06	3000	
P 07	1800	
P 08	1800	
P 09	1800	
P 10	1800	
P 11	1800	
P 12	1800	
P 13	1800	



Project Name: MA-Somerville Trum Field (BB)	Version No: V1	Date: 6/25/2025	Drawn By: Edwin Liwag
	Drawing No: S4342		



Luminaire Location Summary						
Scene: Fields						
Label	X	Y	Z	Orient	Tilt	LumNo
F2	-202	-1	70	221.112	46.202	1
F2	-202	-1	70	256.817	58.45	2
F2	-202	-1	70	338.318	51.914	3
F2	-116	-1	70	202.166	51.329	4
F2	-116	-1	70	242.978	58.053	5
F2	0	0	70	225.666	60.079	6
F2	0	0	70	306.057	63.6	7
F2	0	0	70	339.341	61.77	8
F2	0	0	70	270.585	54.464	9
F2	0	0	70	196.172	56.087	10
F2	-275	-157	70	355.914	61.007	11
F2	-275	-80	70	48.764	56.981	12
F2	-275	-80	70	10.972	54.961	13
F2	-275	-80	70	341.94	54.119	14
F2	-275	-157	70	16.626	65.024	15
F2	-192	-262	70	41.186	56.635	16
F2	-192	-262	70	63.642	60.531	17
F2	-192	-262	70	105.866	54.672	18
F2	-118	-208	70	14.036	52.342	19
F2	-118	-208	70	40.486	57.006	20
F2	-118	-208	70	70.105	57.917	21
F2	38	-225	70	117.022	58.053	22
F2	38	-225	70	78.566	52.371	23
F2	38	-225	70	34.574	52.086	24
F2	208	-314	70	146.976	63.937	25
F2	208	-314	70	118.207	60.717	26
F2	208	-314	70	91.219	53.332	27
F2	208	-314	70	54.964	56.623	28
F2	208	-314	70	20.362	55.919	29
F2	328	-191	70	148.393	62.999	30
F2	328	-191	70	159.544	62.502	31
F2	328	-191	70	181.685	62.775	32
F2	328	-191	70	231.569	59.204	33
F2	328	-191	70	109.069	50.759	34
F2	283	8	70	311.496	44.764	35
F2	334	-43	70	136.193	44.126	36
F2	334	-43	70	166.661	54.924	37
F2	334	-43	70	192.758	57.215	38
F2	334	-43	70	232.374	59.993	39
F2	283	8	70	283.173	54.055	40
F2	283	8	70	254.792	56.743	41
F2	283	8	70	207.493	57.641	42

Luminaire Location Summary						
Scene: Fields						
Label	X	Y	Z	Orient	Tilt	LumNo
F2	141	9	70	330.642	52.67	43
F2	141	9	70	298.936	63.524	44
F2	141	9	70	289.892	66.585	45
F2	141	9	70	209.302	58.082	46
F2	141	9	70	243.189	56.108	47
F2	-116	-1	70	343.179	62.552	48
F2	-275	-157	70	313.325	59.943	49

Project Name:

MA-Somerville Trum Field (BB)

Version No: v1

Drawing No:
S4342

Date:

6/25/2025

Drawn By:

Edwin Liwag



1. Actual photometrics will vary from color of walls, surface texture, landscaping, site conditions, pole heights, etc.
2. Actual fixture layout may vary depending on final location of fixtures. Fixtures need to be adjusted based on actual conditions.
3. The light loss factor (LLF) is a product of many variables, only lamp lumen depreciation (LLD) has been applied to the calculated results.
4. Illumination values shown (in footcandles) are the predicted results in the calculation summary.
Meter orientation is normal to the plane of calculation.
5. It is the Owner's responsibility to confirm the suitability of the existing or proposed poles and mounting based on the weight and EPA of the proposed fixtures and the owner's site soil conditions and wind zone.
It is recommended that a professional engineer licensed to practice in the state the site is located be engaged to assist in this determination.
6. The landscape material shown hereon is not intended to be an accurate constant representation of any, such as shrub, bush, or tree,
7. Photometric reading fixture mounting height as follows in Luminaire Schedule Column Z.
8. SLG Sports Lighting is not responsible for inspections associated with the project including any responsibility for compliance with local lighting ordinance.

Project Name:	Version No: V1	Date:	Drawn By:
MA-Somerville Trum Field (BB)	Drawing No: S4342	6/25/2025	Edwin Liwag

FSP G2

LED Sports Light Gen 2

Due to continuous product improvements, specification and/or equipment updates may change without notice.



FSP G2 - Pro Series

(Images are shown for illustration purposes only)



FSP G2 - Rec Series



FSP G2 with Driver Box (side view)

The **FSP G2 LED Sports Light** series offers a range of outputs for your recreational and professional use sports lighting needs. Based off our popular sports lighting design this second generation series offers flexibility featuring a remote driver option that either sits behind the fixture or can be ran remotely down a pole for easier access. With wireless lighting controls easily added to any project - your field lighting goes from casual to WOW factor at the touch of a button. Experience more with the **FSP G2** line.

CATALOG

Catalog Number	Description	Lumens	Watts	CCT	Voltage
FSP 900 N3 G2 HVU 57K B	LED Sports Light - Rec Series - Black Finish with visor. NEMA 3 Optics	92,000 Lm	600 W	5700K	200 - 480V
FSP 1600 N2 G2 HVU 57K B	LED Sports Light - Pro Series - Black Finish with visor. NEMA 2 Optics	160,000 Lm	1200 W	5700K	200 - 480V
FSP 1600 N3 G2 HVU 57K B	LED Sports Light - Pro Series - Black Finish with visor. NEMA 3 Optics	160,000 Lm	1200 W	5700K	200 - 480V
FSP 1600 N4 G2 HVU 57K B	LED Sports Light - Pro Series - Black Finish with visor. NEMA 4 Optics	160,000 Lm	1200 W	5700K	200 - 480V

4000K / 5000K CCT options also available upon special order.

ORDERING GUIDE

Example: **FSP 900 N3 G2 HVU 57K B**

Fixture Type	Lumen Output	Optics	Generation	Voltage	CCT	Finish	Controls	Accessories
• FSP LED Sports Light	• 900 92,000 Lm / 600 W	• N3 NEMA 3	• G2 Gen 2	• HVU 200-480 V	• 40K* 4000K • 50K* 5000K • 57K 5700K	• B Black	• S Synapse Advanced Wireless Controls • A AVI-on Advanced Wireless Controls	• TR-SP-B Tenon Adaptor • FSP-RDB Retrofit Diving Board • FSP-BRM FSP Remote Driver Back Mount
	• 1600 160,000 Lm / 1200 W	• N2 NEMA 2 • N3 NEMA 3 • N4 NEMA 4			*4000K / 5000K CCT options also available upon special order.			

Specifications

Housing

Sealed die-casting profile for outdoor applications.

Ambient Temperature

Suitable for use in -40° C to 50° C (-40° F to 122° F).

Mounting

Pole mounted and cross arm mounted.

Efficacy

Up to 153 lumens per watt.

CCT and CRI

4000K (Special order only), 5000K (Special order only), and 5700K. CRI 70.

EPA

Rec Series: 1.9

Pro Series: 2.6

Weight

Rec Series: Integral - 43lbs / Remote - 26 lbs.

Pro Series: Integral - 55lbs / Remote - 38 lbs.

Lumen Output

Rec Series: 92,000 Lumens

Pro Series: 160,000 Lumens

Warranty

Rec Series: 5-year warranty. Pro Series: 10-Year Warranty. Additional warranty terms available upon request.

Electrical

600W & 1200W: 200-480V

0-10V dimming standard.

Certifications

UL Listed for wet locations. FCC compliant. IP65 rated. Design Lights Consortium® (DLC) Premium 5.1 listed.

Accessories



Black Top Visor

Tenon Adaptor

Retrofit Diving Board

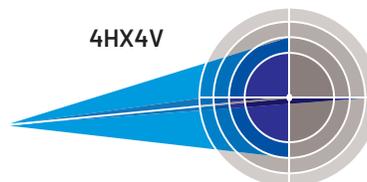
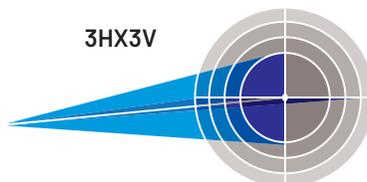
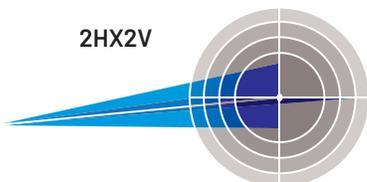
Performance Information

Series Number	Wattage	EMA	4000K*		5000K*		5700K	
			LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
FSP 900	600 W	3Hx3V	92,000 Lm	153 Lm/W	92,000 Lm	153 Lm/W	90,000 Lm	150 Lm/W
FSP 1600	1200 W	4Hx4V	160,000 Lm	133 Lm/W	160,000 Lm	133 Lm/W	160,000 Lm	133 Lm/W
		3Hx3V	160,000 Lm	133 Lm/W	160,000 Lm	133 Lm/W	160,000 Lm	133 Lm/W
		2Hx2V	160,000 Lm	133 Lm/W	160,000 Lm	133 Lm/W	160,000 Lm	133 Lm/W

*4000K / 5000K CCT options also available upon special order.

Photometric

FSP G2

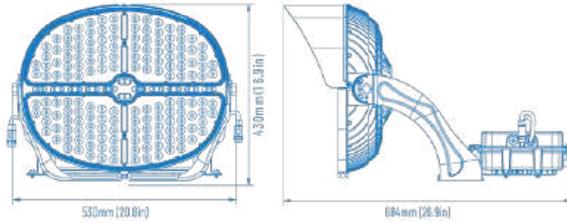


Dimensions

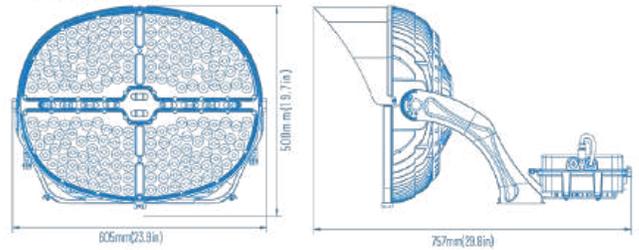
FSP G2

With Driver Box Attached

Small Size: 600W

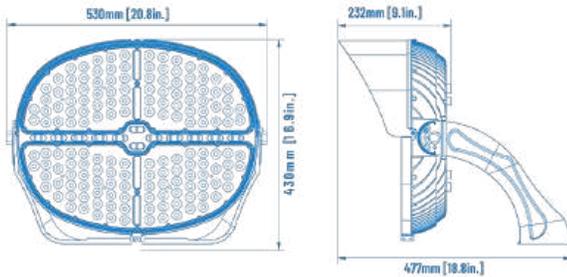


Large Size: 1200W

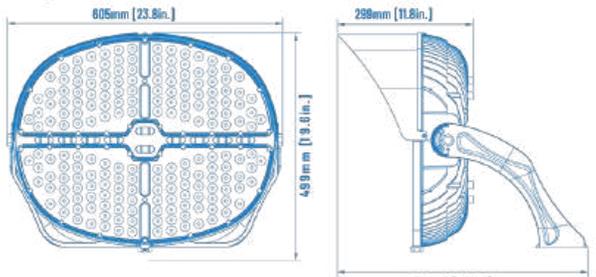


With Remote Driver Box

Small Size: 600W



Large Size: 1200W



Electrical Load

	Wattage	Current (A)			HVU	Current (A)	
		208V	240V	277V		347V	480V
FSP 900	600W	2.88	2.50	2.17	HVU	1.73	1.25
FSP 1200	1200 W	5.77	5.00	4.33		3.46	2.50

Central Base Station



The Central Base Station site controller serves as the heart of your SimplySnap solution. This network edge appliance provides quick browser-based access and local control of smaller systems with hundreds of devices.

Each SimplySnap system includes a variety of Synapse-enabled devices that communicate with each other and the CBS to form a local mesh network. The CBS monitors, controls, and automates critical devices to save energy across different types of systems.

For managing larger sites or multiple locations, SimplySnap cloud applications¹ are available to consolidate multiple site controllers into a single user interface for integrated management across installations with thousands of devices.

Product #	Description
CBSSW-450-002	SS450-based Model w/ 5-button switch

Key Features

- IP65 rated with built in surge protection
- Programmable push buttons for manual control
- Multiple Zones, Behaviors, Events, and Schedules
- Built in Wi-Fi for local wireless access
- Ethernet port and cellular for network connectivity
- AES 128-bit encryption
- Optional Cloud and Remote Access services available¹
- BMS and other system integration options
- Energy saving features to help meet regulations and qualify for rebates
- Energy management cloud applications¹ gather data from site controllers to generate energy reports about your facility and equipment

Dimensions	12.6" x 10.6" x 7.6" (320 x 270 x 193 mm)
Input Power	Outdoor rated power supply 110-277VAC; 11W max, 6kV surge protection
Operating Environment	Outdoor rated at -40°C to +54°C, IP65 (when latched)
Cellular	Verizon 4G LTE
Wi-Fi	802.11 b/g/n
Radio	SNAP 2.4 GHz; 802.15.4 +20 dBm Transmit Power -105 dBm Receive Sensitivity
Certifications	FCC/IC UL 60730-1 CSA E60730-1 ROHS 3:2011/65/EU(2015/863)
Warranty²	5 Years

1. Cloud access and other applications sold separately, contact sales for details.

2. See www.synapsewireless.com/warranty for warranty terms

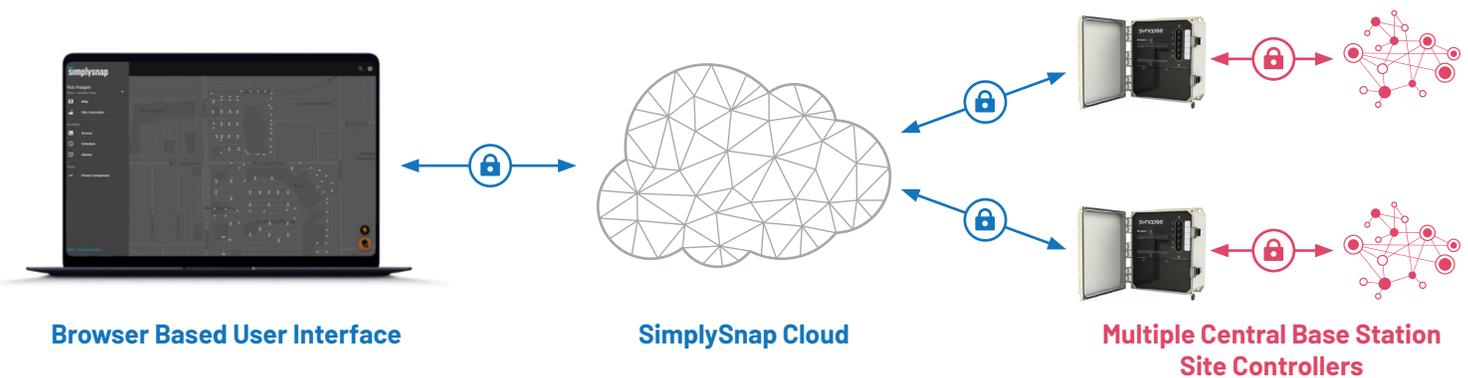
Supported Wireless Devices

- Embedded Lighting Controllers
- External Lighting Controllers
- Sensors - Photocell, Motion, Industrial, and Environmental
- Network Repeaters
- Hardware interface devices for control of HVAC systems and other equipment

Hardware and Software Options

- External Antenna Kits- 20, 30, and 50 foot options
- Dynamic Behaviors- Software license for sports lighting applications

System Diagrams



Encrypted LAN/WAN Network

Encrypted SNAP Network