

# EVERSOURCE

**MUNICIPAL PROGRAM**

**PROPOSAL**

Prepared for

**Somerville Dilboy Stadium**

**MP250017**

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

**ENERGY EFFICIENCY RECOMMENDATIONS**

Somerville Dilboy Stadium  
110 Alewife Brook Pkwy  
Somerville, MA 02144  
Garrett Anderson 617-625-6600 x 2429

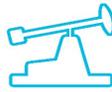
**AECOM Job #** MP250017  
**Electric Account #** 74011134462  
**Gas Account #**  
**Application #**

<u>PROJECT COST / ANNUAL SAVINGS</u>	
<b>Total Project Cost</b>	<b>\$ 299,459.70</b>
<b>Estimated Eversource Incentive</b>	<b>\$ 39,000.00</b>
<b>Customer Cost After Incentive</b>	<b>\$ 260,459.70</b>
<b>Estimated Annual Savings</b>	<b>\$ 55,278.08</b>
<b>5-Year Savings</b>	<b>\$ 276,390.40</b>
<b>Payback (in years)</b>	<b>4.7</b>

**SUMMARY OF SAVINGS**



**kWh Saved:**  
  
276,390.4



**Gallons of Gasoline Saved: per EPA**  
  
21,989.8



**Pounds of CO<sub>2</sub> Saved: per EPA**  
  
177,309.7

**PAYMENT OPTIONS**

**LUMP SUM PAYMENT**

- I choose to pay AECOM in full by Purchase Order. **Enclosed: \$260,459.70**
- 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 This proposal may be withdrawn by AECOM or Eversource if not accepted within 30 days of the proposal date.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., 8<sup>th</sup> 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** \_\_\_\_\_

MP250017

## Eversource Municipal Program Energy Efficiency Recommendations Estimated Return On Investment

**APPLICATION NO:** 0  
**AECOM JOB NO:** MP250017  
**FACILITY NAME:** Somerville Dilboy Stadium  
**ADDRESS:** 110 Alewife Brook Pkwy  
**CITY / STATE / ZIP CODE:** Somerville, MA 02144  
**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	STADIUM LIGHTS	600W LED Sports Floodlight Fixture	100	120.88	40	251,430.4
2	STADIUM LIGHTS	Bracket for sports light	100			0.0
3	STADIUM LIGHTS	Lift Rental	1			0.0
4	STADIUM LIGHTS	Dumpster Rental	1			0.0
5	STADIUM LIGHTS	Permit included	1			0.0
6	CONTROLS	Wireless Controls	1		8	24,960.0
7						
8						
9						
10						
<b>TOTALS:</b>				<b>120.88</b>		<b>276,390.4</b>

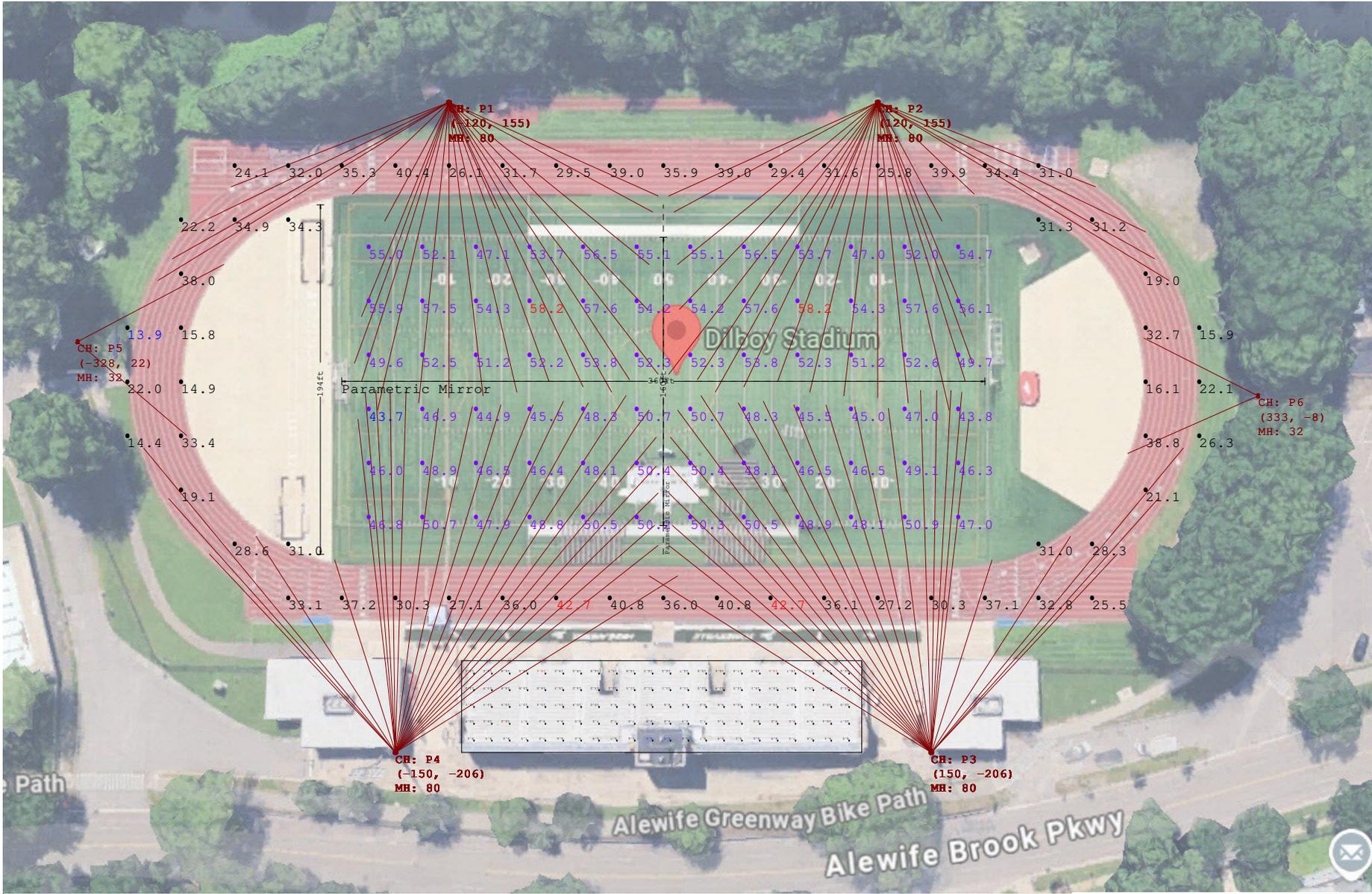
\* The incentive is estimated and will need to be confirmed by the utility provider.

Total Cost	Incentive*	Net Cost
<b>\$299,459.70</b>	<b>\$39,000.00</b>	<b>\$260,459.70</b>

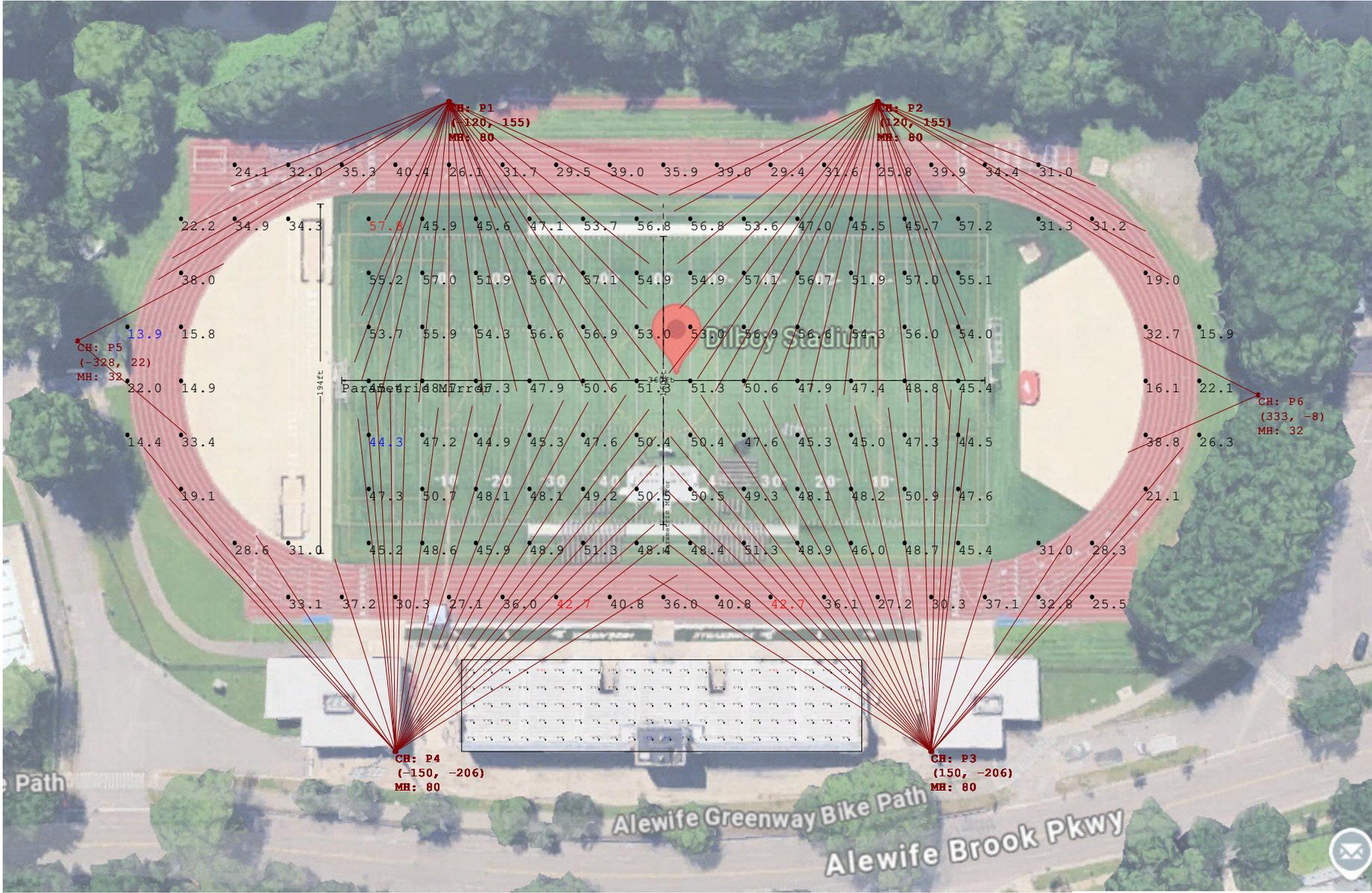
\* 6 Year Manufacturer's Warranty on SLG products

**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:	Version No: V1	Date:	Drawn By:
MA-Dilboy Field (FB)	Drawing No: S4279	5/27/2025	Edwin Liwag



Project Name:	Version No: V1	Date:	Drawn By:
MA-Dilboy Field (FB)	Drawing No: S4279	5/27/2025	Edwin Liwag

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

Calculation Summary													
Scene: FB													
Label	CalcType	Units	Field Size	Avg	Max	Min	Avg/Min	Max/Min	# Pts	CV	UG	PtSpcLr	PtSpcTb
Bleachers_Planar	Illuminance	Fc		11.35	19.4	5.5	2.06	3.53	110	0.34	1.36	10	10
FB	Illuminance	Fc	360,160	50.86	58.2	43.7	1.16	1.33	72	0.08	1.16	30	30
SC	Illuminance	Fc	360,194	50.56	57.8	44.3	1.14	1.30	84	0.08	1.26	30	30
TRK	Illuminance	Fc		30.12	42.7	13.9	2.17	3.07	57	0.26	2.41	30	30

Pole Summary		
Scene: FB		
Channel	# Lums	MH
P1	24	80
P2	24	80
P3	24	80
P4	24	80
P5	2	32
P6	2	32

Pole Wattage Summary		
Scene: FB		
Channel	Total Watts	Combined Total
P1	14400	60000
P2	14400	
P3	14400	
P4	14400	
P5	1200	
P6	1200	



<b>Project Name:</b> MA-Dilboy Field (FB)	<b>Version No:</b> V1	<b>Date:</b> 5/27/2025	<b>Drawn By:</b> Edwin Liwag
	<b>Drawing No:</b> S4279		



Luminaire Location Summary						
Scene: FB						
Label	X	Y	Z	Orient	Tilt	LumNo
F2	150	-206	80	46.606	62.145	1
F2	-150	-206	80	133.394	62.145	2
F2	120	155	80	338.931	58.538	3
F2	-120	155	80	201.069	58.538	4
F2	150	-206	80	47.99	67.141	5
F2	-150	-206	80	132.01	67.141	6
F2	120	155	80	330.695	65.769	7
F2	-120	155	80	209.305	65.769	8
F2	150	-206	80	50.161	70.025	9
F2	-150	-206	80	129.839	70.025	10
F2	120	155	80	328.727	67.243	11
F2	-120	155	80	211.273	67.243	12
F2	120	155	80	316.637	42.875	13
F2	-120	155	80	223.363	42.875	14
F2	150	-206	80	123.085	71.297	15
F2	-150	-206	80	56.915	71.297	16
F2	150	-206	80	72.372	54.528	17
F2	-150	-206	80	107.628	54.528	18
F2	120	155	80	246.218	38.867	19
F2	-120	155	80	293.782	38.867	20
F2	150	-206	80	89.145	68.299	21
F2	-150	-206	80	90.855	68.299	22
F2	120	155	80	287.543	63.797	23
F2	-120	155	80	252.457	63.797	24
F2	150	-206	80	91.71	68.306	25
F2	-150	-206	80	88.29	68.306	26
F2	150	-206	80	97.162	67.433	27
F2	-150	-206	80	82.838	67.433	28
F2	120	155	80	283.166	65.509	29
F2	-120	155	80	256.834	65.509	30
F2	150	-206	80	102.624	67.874	31
F2	-150	-206	80	77.376	67.874	32
F2	120	155	80	263.351	64.011	33
F2	-120	155	80	276.649	64.011	34
F2	150	-206	80	106.998	68.377	35
F2	-150	-206	80	73.002	68.377	36
F2	120	155	80	256.72	64.191	37
F2	-120	155	80	283.28	64.191	38
F2	150	-206	80	111.75	68.943	39
F2	-150	-206	80	68.25	68.943	40
F2	150	-206	80	115.736	69.718	41
F2	-150	-206	80	64.264	69.718	42
F2	120	155	80	244.607	65.42	43
F2	-120	155	80	295.393	65.42	44
F2	120	155	80	226.014	63.411	45
F2	-120	155	80	313.986	63.411	46
F2	150	-206	80	129.838	70.658	47
F2	-150	-206	80	50.162	70.658	48
F2	120	155	80	236.741	66.52	49
F2	-120	155	80	303.259	66.52	50
F2	150	-206	80	132.559	69.665	51
F2	-150	-206	80	47.441	69.665	52
F2	120	155	80	232.23	67.276	53
F2	-120	155	80	307.77	67.276	54
F2	150	-206	80	135.591	68.756	55

Luminaire Location Summary						
Scene: FB						
Label	X	Y	Z	Orient	Tilt	LumNo
F2	-150	-206	80	44.409	68.756	56
F2	150	-206	80	139.01	67.39	57
F2	-150	-206	80	40.99	67.39	58
F2	120	155	80	298.61	43.221	59
F2	-120	155	80	241.39	43.221	60
F2	150	-206	80	141.963	66.798	61
F2	-150	-206	80	38.037	66.798	62
F2	120	155	80	208.151	58.253	63
F2	-120	155	80	331.849	58.253	64
F2	150	-206	80	85.142	68.27	65
F2	-150	-206	80	94.858	68.27	66
F2	150	-206	80	56.976	60.796	67
F2	-150	-206	80	123.024	60.796	68
F2	120	155	80	203.962	58.002	69
F2	-120	155	80	336.038	58.002	70
F2	150	-206	80	126.773	71.362	71
F2	-150	-206	80	53.227	71.362	72
F2	120	155	80	250.136	64.107	73
F2	-120	155	80	289.864	64.107	74
F2	150	-206	80	83.524	66.748	75
F2	-150	-206	80	96.476	66.748	76
F2	120	155	80	290.078	62.607	77
F2	-120	155	80	249.922	62.607	78
F2	120	155	80	334.359	64.321	79
F2	-120	155	80	205.641	64.321	80
F2	120	155	80	218.784	60.891	81
F2	-120	155	80	321.216	60.891	82
F2	120	155	80	292.38	58.134	83
F2	-120	155	80	247.62	58.134	84
F2	120	155	80	270	63.997	85
F2	-120	155	80	270	63.997	86
F2	150	-206	80	119.105	70.186	87
F2	-150	-206	80	60.895	70.186	88
F2	150	-206	80	86.868	68.326	89
F2	-150	-206	80	93.132	68.326	90
F2	150	-206	80	148.191	66.719	91
F2	-150	-206	80	31.809	66.719	92
F2	120	155	80	240.524	66.608	93
F2	-120	155	80	299.476	66.608	94
F2	120	155	80	275.812	64.519	95
F2	-120	155	80	264.188	64.519	96
F2	-328	22	32	27.672	70.934	97
F2	-328	22	32	319.554	68.237	98
F2	333	-8	32	153.435	65.905	99
F2	333	-8	32	203.671	68.126	100

Project Name:

MA-Dilboy Field (FB)

Version No: V1

Drawing No:  
S4279

Date:

5/27/2025

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.

<b>Project Name:</b>	<b>Version No:</b> V1	<b>Date:</b>	<b>Drawn By:</b>
MA-Dilboy Field (FB)	<b>Drawing No:</b> S4279	5/27/2025	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

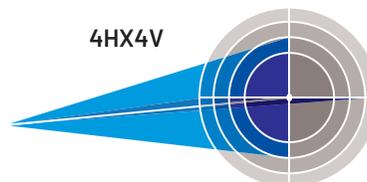
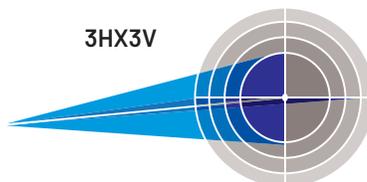
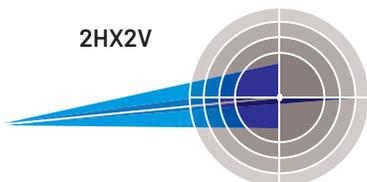
## Performance Information

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

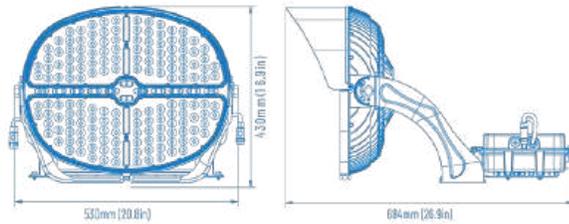


## Dimensions

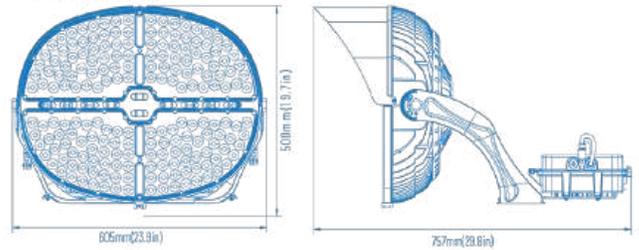
### FSP G2

#### With Driver Box Attached

Small Size: 600W

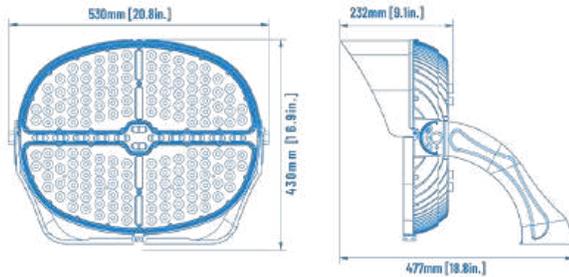


Large Size: 1200W

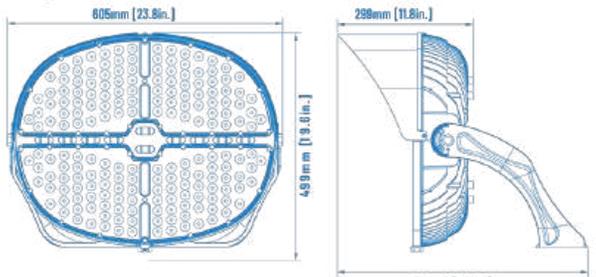


#### With Remote Driver Box

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 applications<sup>1</sup> 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 available<sup>1</sup>
- BMS and other system integration options
- Energy saving features to help meet regulations and qualify for rebates
- Energy management cloud applications<sup>1</sup> gather data from site controllers to generate energy reports about your facility and equipment

<b>Dimensions</b>	12.6" x 10.6" x 7.6" (320 x 270 x 193 mm)
<b>Input Power</b>	Outdoor rated power supply 110-277VAC; 11W max, 6kV surge protection
<b>Operating Environment</b>	Outdoor rated at -40°C to +54°C, IP65 (when latched)
<b>Cellular</b>	Verizon 4G LTE
<b>Wi-Fi</b>	802.11 b/g/n
<b>Radio</b>	SNAP 2.4 GHz; 802.15.4 +20 dBm Transmit Power -105 dBm Receive Sensitivity
<b>Certifications</b>	FCC/IC UL 60730-1 CSA E60730-1 ROHS 3:2011/65/EU(2015/863)
<b>Warranty<sup>2</sup></b>	5 Years

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

2. See [www.synapsewireless.com/warranty](http://www.synapsewireless.com/warranty) for warranty terms

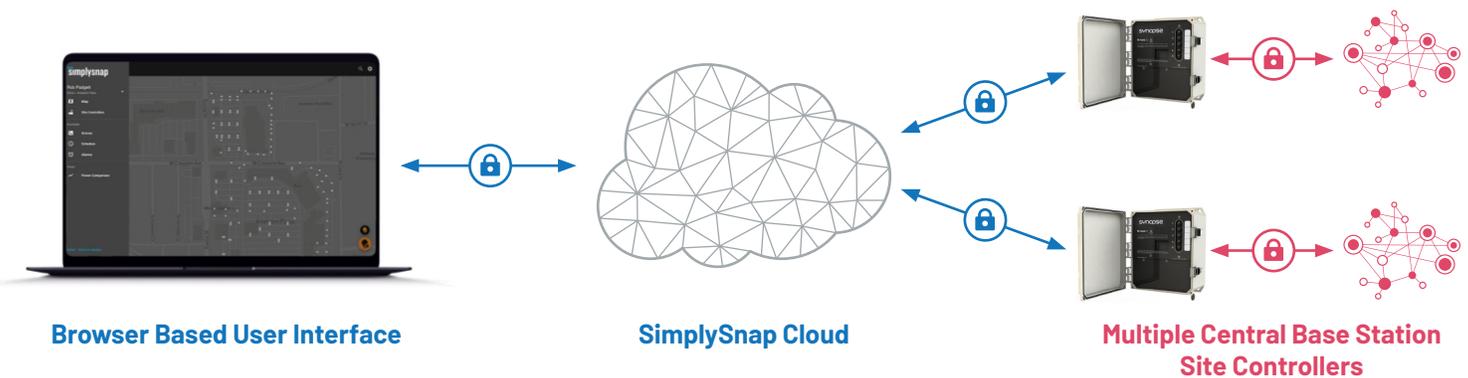
## Supported Wireless Devices

- 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