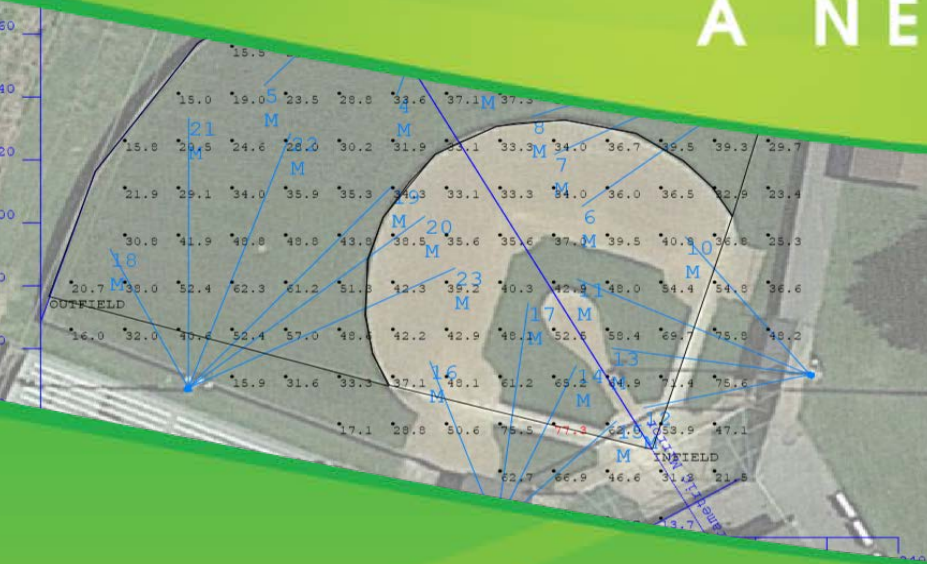


# MaxLite®

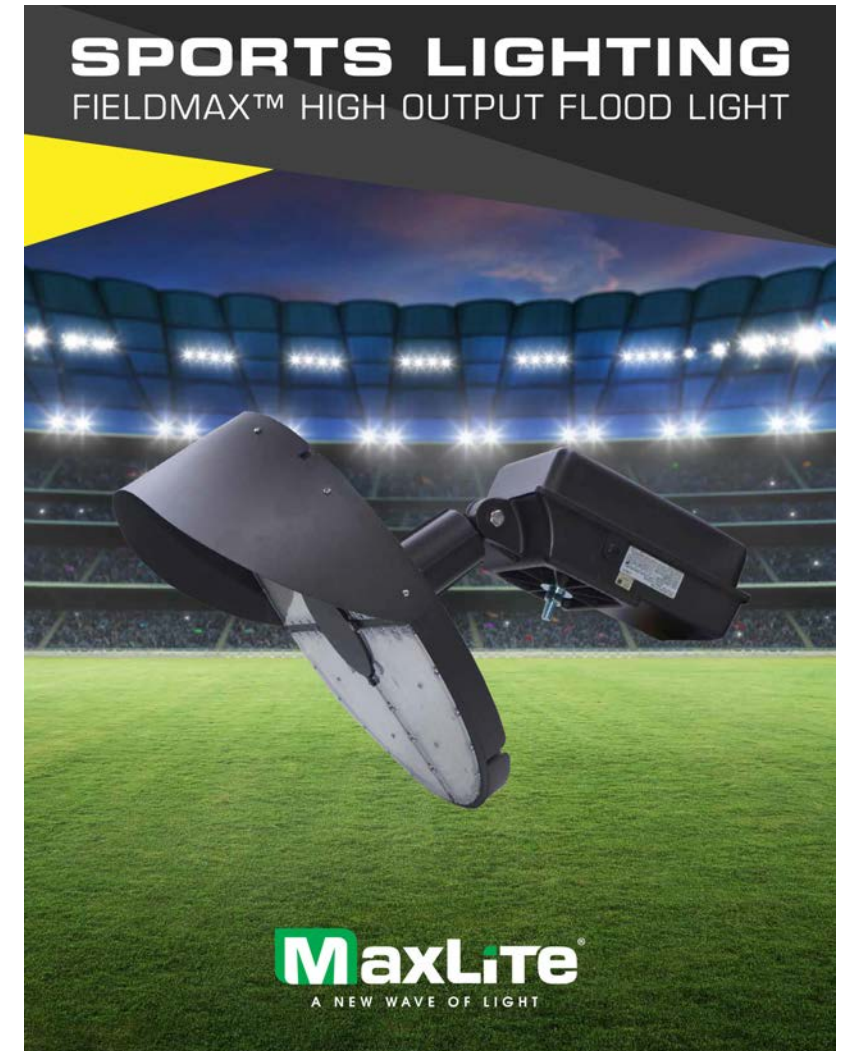
A NEW WAVE OF LIGHT



## SPORTS & RECREATIONAL AREA LIGHTING

APRIL 23, 2020

- No restart time
- LED fixtures do not depreciate like HID fixtures
- No relamping is needed
- Less Energy is consumed with LED
- Better Light quality and light control is achieved (Spill & Glare)



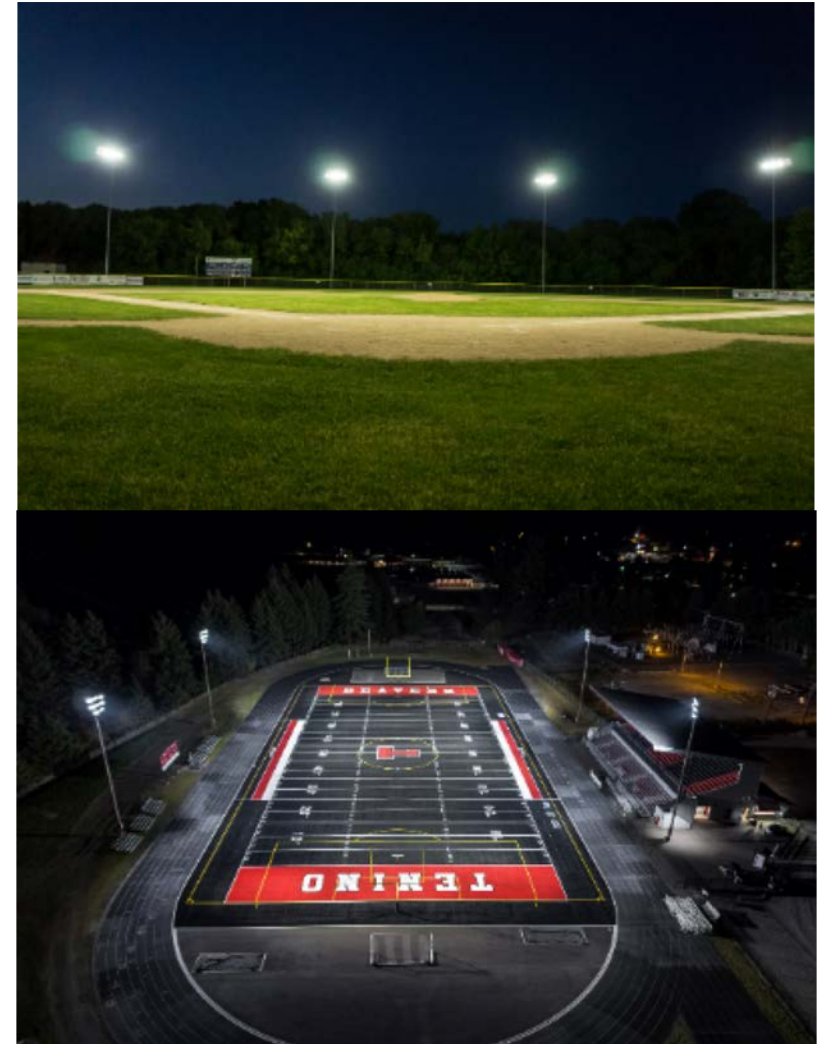
## Positioning:

- Recreational Fields
- High School Fields
- Small College Playing Fields & All Purpose Fields

~~PROFESSIONAL STADIUMS~~

~~TELEVISED SPORTING EVENTS~~

**Why? Performance and requirements are different**

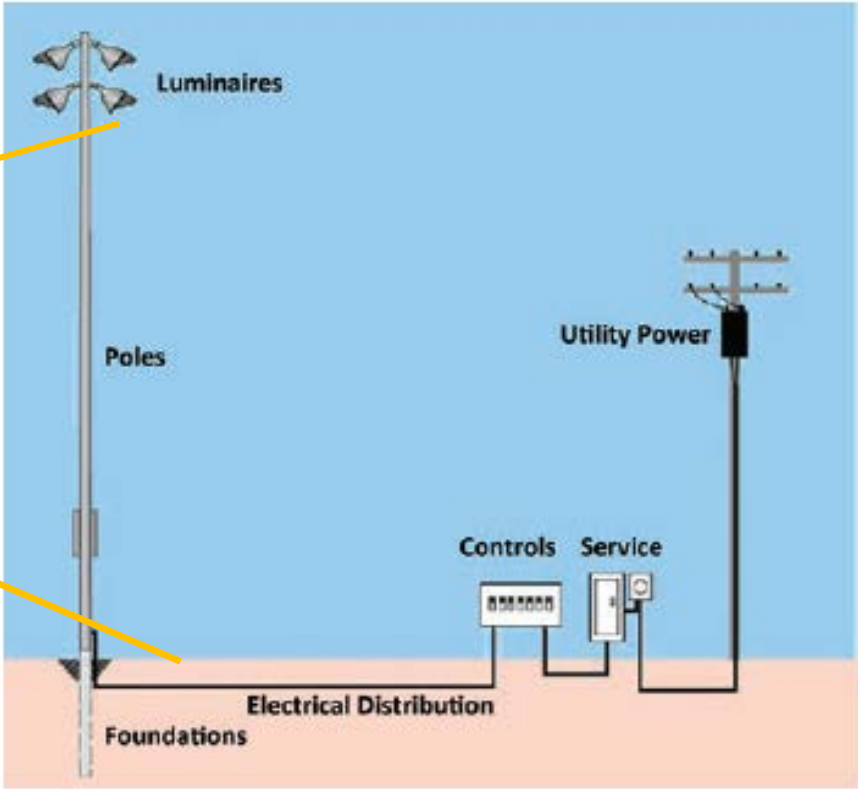


# HOW IS LIGHT MEASURED IN SPORTS FIELDS?



**Lumens (lm)** – Out of the fixture

**Footcandles (FC)** – on the surface



MaxLite Sweet Spot

FACILITY	CLASS			
	I	II	III	IV
Professional	X			
College	X	X		
Semi-Professional	X	X		
Sports Clubs	X	X	X	
Amateur Leagues		X	X	X
High School		X	X	X
Training Facilities			X	X
Elementary School				X
Recreational Event				X
Social Event				X

Class I: Facilities with spectator capacity over 5,000  
 Class II: Facilities with spectator capacity under 5,000  
 Class III: Facilities with some provision for spectators  
 Class IV: Facilities with limited or no provision for spectators

## FC Levels Required

### Sport Type

### Class IV

### Class III

Football

30

50

Soccer

30

50

Baseball

30/20

50/30

Softball

30/20

50/30

Tennis

30

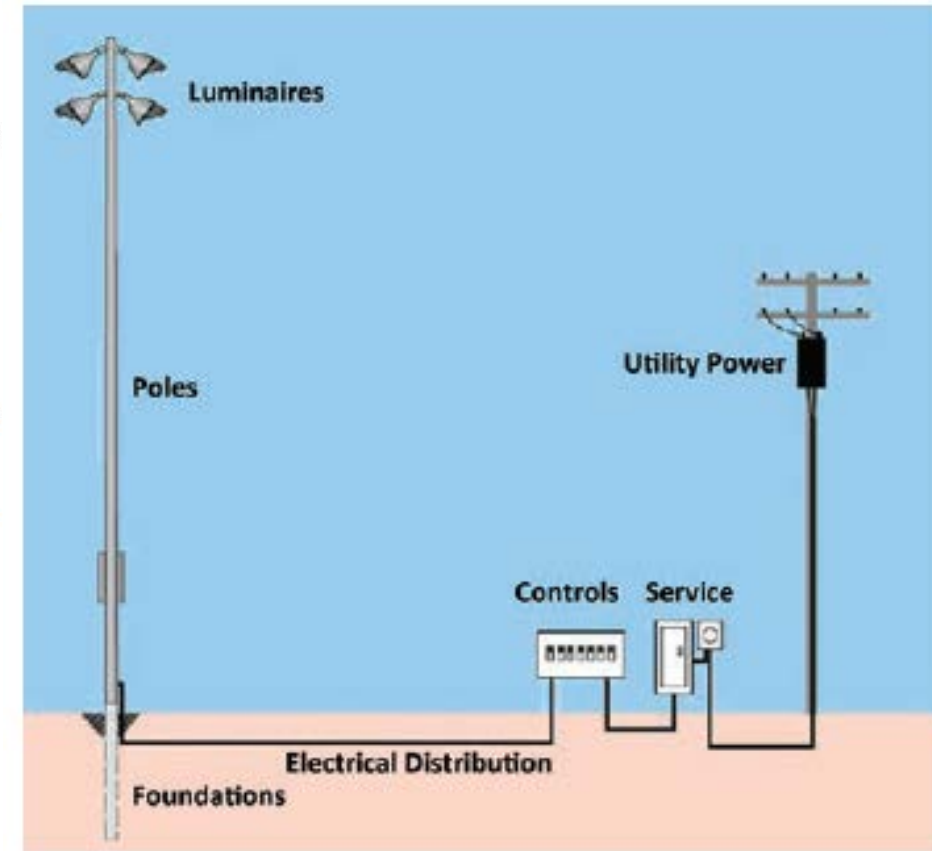
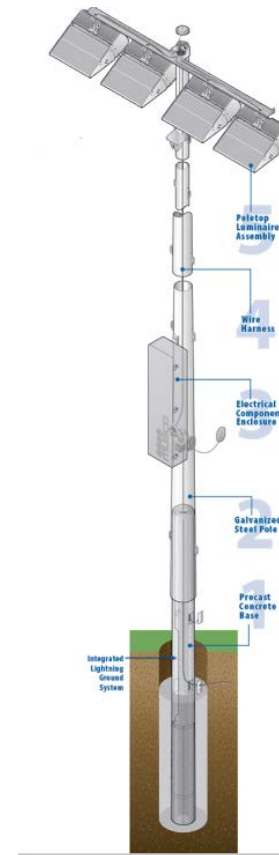
50

The illuminating engineering society (IES) has standards for Indoor, Outdoor, Sports, Roadway ....

# WHAT IS A SPORTS LIGHTING SYSTEM?

A complete sports lighting system includes:

- 1. Luminaires**
  - Integral Driver *or*
  - Remote driver & Enclosure
- 2. Pole structure**
  - Crossarm
  - Pole shaft & Base
- 3. Wiring**
  - Crossarm Harness
  - Pole Harness
- 4. Control System**
- 5. Electrical distribution & Cables (By others)**



Outdoor lighting system shown

\* Indoor lighting system does not include the pole shaft & base

## 1. Quoting process

- Lighting Layout - 2 days
- Fixtures quote - 1 day
- Pole system (Crossarm , Pole) - 5 days
- Control system – 5 days
- Help research potential utility rebates to help the ROI

## 2. Deliverables / Lead times

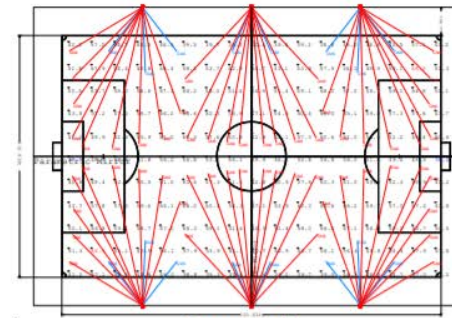
- Installation aiming diagram
- Stamped structural drawing
- 2 – 3 weeks domestic stock for 1-2 fields projects
- Large quantities / projects could range from 6-10 weeks
- 6 - 12 weeks pole system delivery



- Use our typical layouts to quote *or*
- Reach out to MaxLite for a specific layout
  - **with field information**
    - \* poles locations and heights
    - \* field location and dimension
  - **Clarify targets**
    - \* Specifying Light levels instead of fixture count is always better
    - \* If doing a fixture to fixture replacement, it might be important to use “2” wattages options and compare.

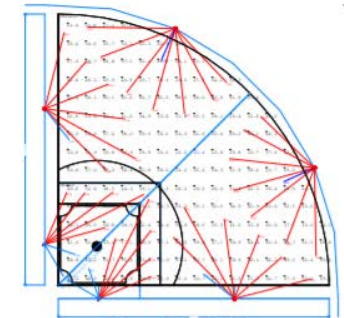
**LEAD TIME - 2 DAYS**

## TYPICAL LAYOUT



Soccer Field

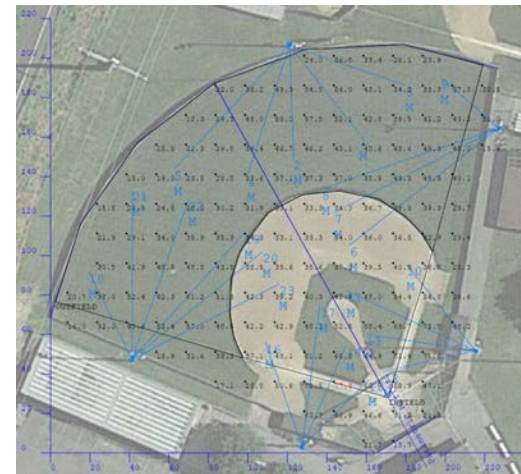
CALCULATION SUMMARY								
LABEL	CALC TYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN	# PTS
SOCCER FIELD	illuminance	Fc	57.73	73.4	40.9	1.41	1.79	50



Baseball Field

CALCULATION SUMMARY								
LABEL	CALC TYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN	# PTS
BASEBALL FIELD	illuminance	Fc	36.64	67.0	20.4	1.80	3.28	179
INFIELD	illuminance	Fc	51.31	67.0	34.3	1.50	1.95	36
OUTFIELD	illuminance	Fc	32.95	49.1	20.4	1.62	2.41	143

## CUSTOM LAYOUT & COMPARING 2 SOLUTIONS



INFIELD  
OUTFIELD

	SOLUTION 1	SOLUTION 2
	515W ( qty 23)	430W ( qty 23)
INFIELD	46FC	40FC
OUTFIELD	38FC	30FC

**MaxLite Recommendation - Solution 2**



- **Distributions:** 3X3 ( Wide) , 5X5 ( Medium), 7X7 ( Narrow)
- **Features:** Aiming angle indicator; 10kV standard
- **CCTs:** 4000K, 5000k
- **Options :** Yoke bracket, Visor, 347-480V
- **Listings:** DLC Premium; IK08 ; IP65 ; 1.5G
- **Mounting options:** Yoke Bracket, Threaded bolt (ø5/8"x1.75")

**LEAD TIME - 1 DAY**

**We will help you find the applicable rebates**



## FieldMax

360W	430W	515W
65,000 lm	76,440 lm	90,850 lm





Pole Cages



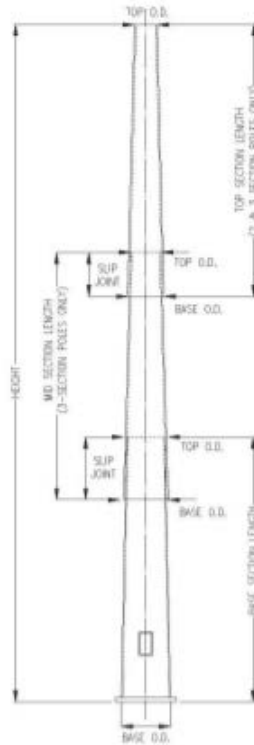
Angle Mount Crossarms



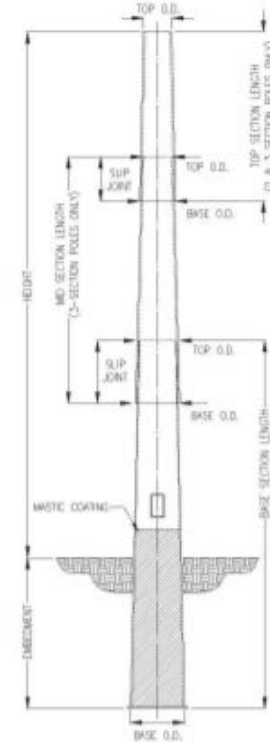
Collar Mount Crossarms



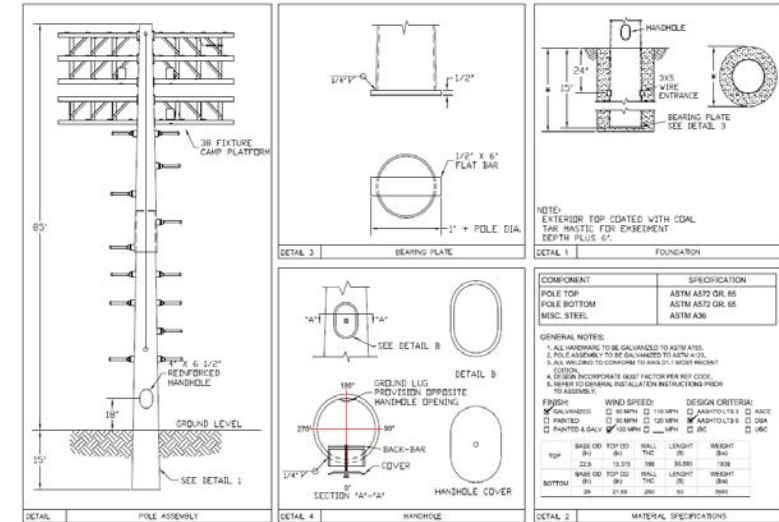
Side Mount Crossarms



Anchor Base Poles



Embedded Poles



Stamped structural drawing

**LEAD TIME - 5 DAYS**

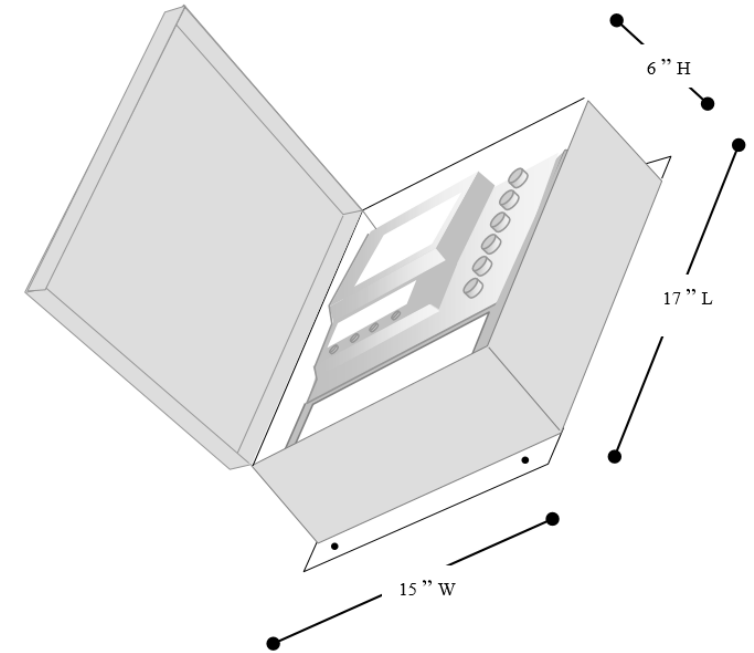
EPA and weight restrictions are taken into account based on the region or wind speed

## Recommended SKYLOGIX control system

- **Remote** control unit
- Website scheduling
- Monitoring of all fixtures Performance
- Manual Off-Auto-On selector switching per zone
- We can put you in contact with [Skylogix](#) if needed as this is sold separately from MaxLite.

**LEAD TIME - 5 DAYS**

## ARC-10 RCU / BCU Automation HID / LED System Controller



# INSTALLATION AIMING DIAGRAM

Luminaire Location Summary						
LumNo	Label	X	Y	Z	Orient	Tilt
1	430-55	121.142	206.456	40	308.188	55
2	430-55	121.142	206.456	40	272.151	55
3	430-55	121.142	206.456	40	340.956	57.214
4	430-55	121.142	206.456	40	251.966	60
5	430-55	121.142	206.456	40	226.975	65
6	430-55	226.938	164.482	40	218.133	67.349
7	430-55	226.938	164.482	40	207.188	66.82
8	430-55	226.938	164.482	40	198.924	67.046
9	430-55	226.938	164.482	40	138.544	44.244
10	430-55	215.245	51.754	40	128.468	54.417
11	430-55	215.245	51.754	40	155.041	60.864
12	430-55	215.245	51.754	40	192.724	49.982
13	430-55	215.245	51.754	40	171.393	54.509
14	430-55	127.536	3.22	40	66.523	54.509
15	430-55	127.536	3.22	40	45.192	49.982
16	430-55	127.536	3.22	40	109.448	54.417
17	430-55	127.536	3.22	40	82.875	60.864
18	430-55	41.356	47.557	40	116.409	50.893
19	430-55	41.356	47.557	40	48.35	65
20	430-55	41.356	47.557	40	39.491	65
21	430-55	41.356	47.557	40	89.948	65
22	430-55	41.356	47.557	40	70.514	65
23	430-55	41.356	47.557	40	27.023	64.484



Aiming Angle Indicator

This is available with every layout

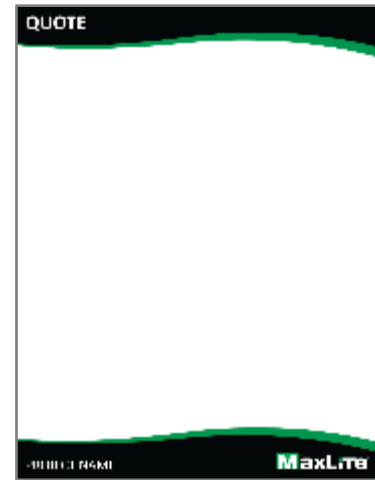
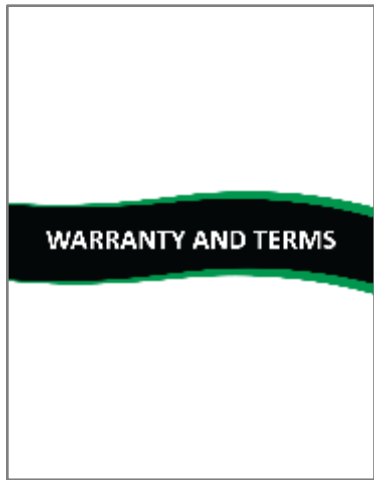
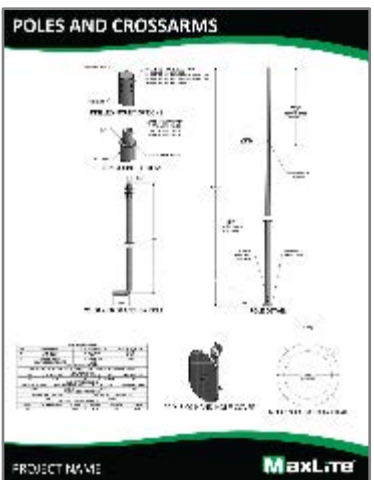
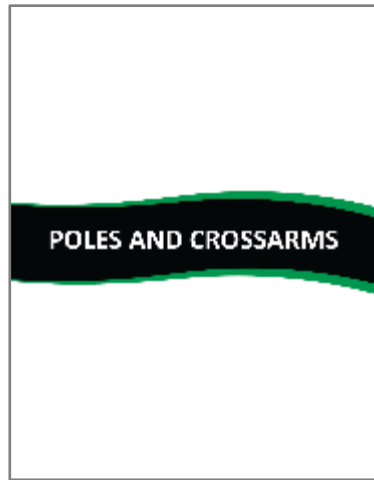
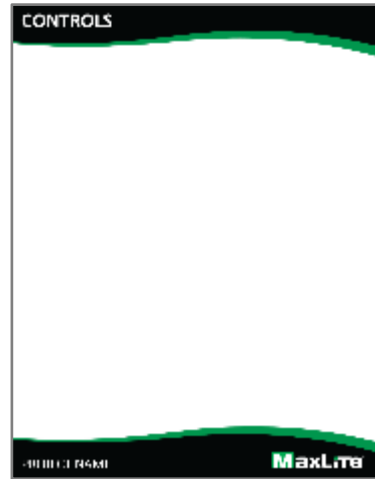
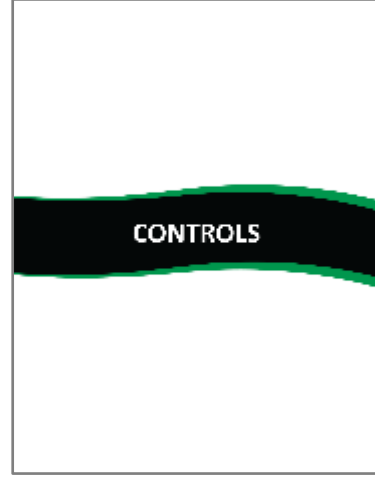
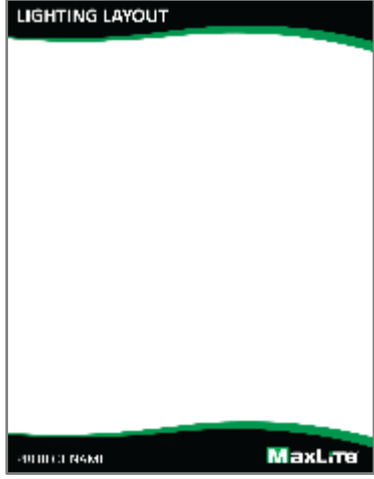
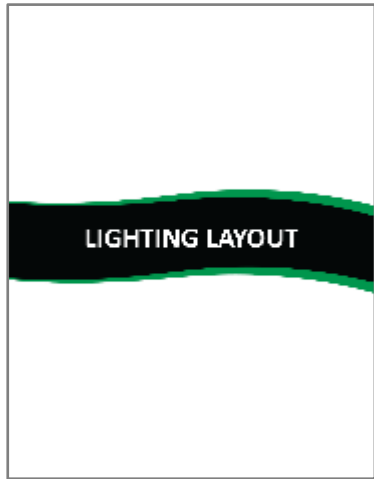
- **MaxLite Submittal Package Template**
  - Easy-to-follow packet includes all MaxLite documents and quote for customer review



- [FIELDMAX Brochure](#)
- [MaxLite Sports Lighting video](#)



Maxlite submittal package will include:



## Brochure:

**SPORTS LIGHTING**  
FIELDMAX™ HIGH OUTPUT FLOOD LIGHT

**MaxLite**  
A NEW WAY OF LIGHT

**FieldMAX™ High Output Flood Light**

• Large retooling of housing (18 degree)  
 • Cast-in-down or up optional  
 • Multiple mounting options  
 • Threaded hole for full 360°  
 • No pin bracket  
 • Thread pin available

SPECIFICATIONS		FL1805	FL1810	FL1815
SKU	SKU	SKU	SKU	SKU
FL1805-10	FL1805-15	FL1805-20	FL1805-25	FL1805-30
FL1810-10	FL1810-15	FL1810-20	FL1810-25	FL1810-30
FL1815-10	FL1815-15	FL1815-20	FL1815-25	FL1815-30
OPTIONAL CIRCUIT BOARD				
WARRANTY	5 YEAR WARRANTY			
Notes	*FL1805-10, FL1810-10, FL1815-10 are not available			
Dimensions	See drawing			
Weight	See drawing			
Material	Aluminum			
Finish	Powder Coat			
Options	See drawing			

**Poles & Mounting Options**

**Other Services**

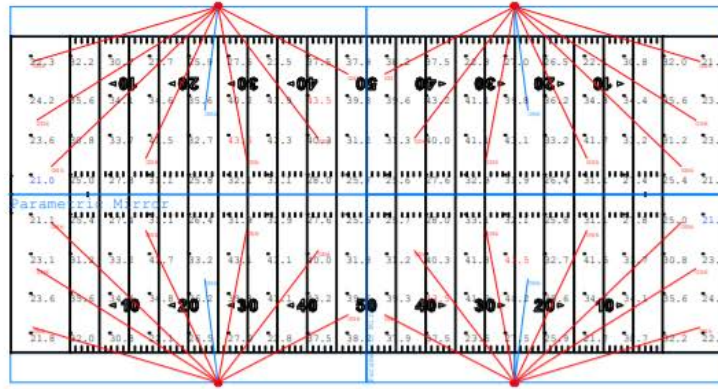
- System package and quote
- Lighting layout and luminaire details
- Pole and mounting details
- Pole and mounting details
- Pole and mounting details
- Pole and mounting details
- Pole and mounting details
- Pole and mounting details
- Pole and mounting details

**Lighting Layout Examples**

**TYPICAL LAYOUTS**

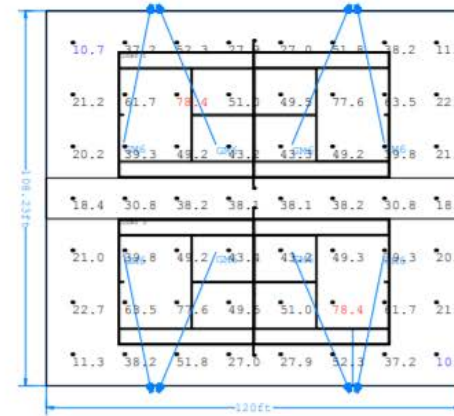
TYPE	FIBER	FOOTCANDLES	LUMENS PER FOOT		FOOTCANDLES PER FOOT	
			100 FT	150 FT	100 FT	150 FT
SOCCER	100000	100	100	100	100	100
SOCCER	100000	100	100	100	100	100
FOOTBALL	100000	100	100	100	100	100
BASEBALL	100000	100	100	100	100	100
ALL	100000	100	100	100	100	100

**MaxLite**  
A NEW WAY OF LIGHT



**Football Field**

CALCULATION SUMMARY								
LABEL	CALC TYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN	# PTS
FOOTBALL FIELD	Illuminance	Fc	32.09	43.5	21.0	1.53	2.07	144



**Tennis Court**

CALCULATION SUMMARY								
LABEL	CALC TYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN	# PTS
TENNIS COURTS	Illuminance	Fc	39.74	78.4	10.7	3.71	7.33	56
COURT 1	Illuminance	Fc	53.81	78.4	39.3	1.37	1.99	12
COURT 2	Illuminance	Fc	53.83	78.4	39.3	1.37	1.99	12

## TYPICAL LAYOUTS

TYPE	SIZE	LEVEL OF PLAY			MAXLITE LAYOUT			
		FOOTCANDLE	UNIFORMITY (MAX/MIN)	POLE QTY	POLE LENGTH	FIXTURE QTY	FIXTURE W	TOTAL KW
SOCCER	200' x 100'	50	2:1	4	70	20	515	10300
SOCCER	330' x 210'	50	2:1	6	70	72	515	37080
FOOTBALL	360' X 160'	30	2.5:1	4	60	32	515	16480
BASEBALL	300' Radius	50/30	2.5:1 / 2.0:1	6	70	44	515	22660
TENNIS	2 Courts - Side by Side	50	2.0:1	4	30	8	435	3480

\*For reference only. Contact your sales rep or email [applications@maxlite.com](mailto:applications@maxlite.com) for custom layouts request.



# SUPPORT PRODUCT – MPULSE HIGH OUTPUT FLOOD



**Distributions:** Narrow, Medium, Wide , Rectangular

**Features:** 10kV standard; 10 Year warranty

**CCTs:** 4000K, 5000k

**Options :** 3 or 7 pin PCR, 347-480V

**Listings:** DLC Premium ; IP66

**Mounting options:** Trunnion, Slipfitter



## MPulse High Output Flood

220W | 440W | 660W  
26,000 lm – 80,000 lm

**IN STOCK NOW!!!!**

PROJECT NAME: \_\_\_\_\_ CATALOG NUMBER: \_\_\_\_\_

NOTES: \_\_\_\_\_ FIXTURE SCHEDULE: \_\_\_\_\_

Page: 1 of 3

### HIGH OUTPUT FLOOD

MP-HO SERIES

**PRODUCT DESCRIPTION:**  
Delivering superior lumen output in a sleek design, the MPulse High Output Flood Light can replace HID lighting systems up to 1500W. The MPulse features a modular optic system that can be configured to suit a variety of interior and exterior applications, including car dealerships, parks and recreational areas, golf driving ranges, facades and general area illumination. Part of an award-winning outdoor family, the High Output Flood Light can be coordinated with Wall Mount, Flood, Canopy and Bollard luminaires for complete design continuity.

**FEATURES:**

- Trade Agreements Act (TAA) compliant
- 10 year limited warranty
- Multiple NEMA beam patterns
- Multiple mounting options
- 3-Pin and 7-Pin photocontrol receptacles available for on/off or programmable dimming via a 3rd party
- 10kV surge protection standard

**APPLICATIONS:**

- High Mast
- Shipping Docks
- Airports
- Car Dealerships

**CONSTRUCTION:**

- Die Cast and extruded Aluminum construction
- Tempered Glass lens
- Powder coated to be rust and corrosion proof

**ENVIRONMENT:**

- UL listed for Wet Locations
- IP66
- 1.5G rated per ANSI C136.31 (660W rating is available only on the Slipfitter options)

**WARRANTY:**  
10-year standard warranty with labor allowance\*  
(further details available at [www.maxlite.com/warranties](http://www.maxlite.com/warranties))  
\*Warranty Limitations: Product must be rated for the application per the Product Data Sheet (PDS), operated < 16 hrs, in ambient of -29F to 104F.  
\*Up to \$25/unit; labor allowances of up to \$500/unit available for purchase – contact MaxLite representative for details.

FAMILY	SUBFAMILY	WATTAGE	VOLTAGE	OPTIC	CCT	FINISH	MOUNTING	OPTIONS
MPulse	HO High Output	220= 220W 440= 440W 660= 660W	U= 120-277V H= 347-480V	N= Medium Narrow M= Medium W= Wide R= Rectangular	30= 3000K 40= 4000K 50= 5000K	B= Bronze S= Silver	T= Trunnion S= Slipfitter	R= 3-Pin PC Receptacle P= 7-Pin PC Receptacle

\*Consult factory for lead times

Don't see what you need? Additional wattages and specifications available upon request - contact your MaxLite rep!

**ACCESSORIES**

ITEM ACCESSORY	ITEM NAME	ITEM DESCRIPTION	PRODUCT IMAGE
Photocontrols	6390LBK	Twist-Lock Electronic Photocontrol 120/208/240/277V	
	6394LL	Twist-Lock Electronic Photocontrol 432-528VAC	

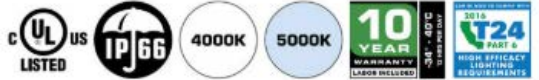
Phone: 1-800-555-5629 | Fax: 973-244-7333 | Web: [www.maxlite.com](http://www.maxlite.com) | E-mail: [info@maxlite.com](mailto:info@maxlite.com)  
Data subject to change without notice. © Copyright 2011-2019, MaxLite, Inc. All Rights Reserved.

MAX18210  
Rev. 02/12/20

## MPulse™ Small/Medium Flood

28W	55W	100W	130W
3,500 lm	6,900 lm	12,000 lm	15,500 lm

[Datasheet](#) | [Product](#)



ARCHITECTURAL

## FloodMax Flood Lights

20W	30W	50W	80W
2,500 lm	3,700 lm	7,400 lm	10,600 lm
120W	200W	310W	
15,300 lm	31,100 lm	41,600 lm	

[Datasheet](#) | [Product](#)



COMMERCIAL

## Small Floods

15W	20W	40W	50W
1,555 lm	2,315 lm	4,715 lm	5,880 lm

[Datasheet](#) | [Product](#)



CONTRACTOR

## QuadroMax Plus

50W 5,900 lm	100W 12,275 lm	150W 18,135 lm	200W 23,340 lm
250W 33,485 lm	300W 39,505 lm		

[Datasheet](#) | [Product](#) | [Video](#)

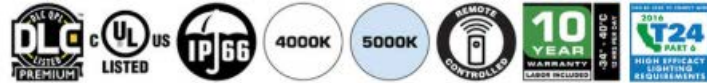


ARCHITECTURAL

## Mpulse™ Area Light

100W 12,550 lm	150W 20,380 lm	200W 25,810 lm	250W 33,355 lm	300W 38,425 lm
-------------------	-------------------	-------------------	-------------------	-------------------

[Datasheet](#) | [Product](#)



COMMERCIAL

## Slim Shoebox

60W 7,900 lm	100W 12,355 lm	140W 17,250 lm	210W 25,810 lm	280W 34,370 lm
-----------------	-------------------	-------------------	-------------------	-------------------

[Datasheet](#) | [Product](#)



CONTRACTOR

We deliver at your door – No surprise freight charge!



## BAA Steel Poles

Square	Round
H: 15'-30' W: 4" 5"	H: 8'-30' W: 3" 4" 5"



## BAA Aluminum Poles

Square	Round
H: 12'-25' W: 4" 5"	H: 12'-20' W: 5"

- Poles ship within 2 to 4 weeks
- Poles are drilled to MaxLite Patterns , available as Tenon Top and in different finishes.
- Anchor bolts can be pre-shipped
- Freight adder predetermined for 1, 2, 3 poles
- Mounting accessories available



## THANKS FOR ATTENDING!

### QUESTIONS/ANSWERS

Thank you everyone for your attention! Please feel free to use this opportunity to ask any questions you may have about MaxLite or the products shown in this presentation.

FOR MORE INFORMATION ABOUT OTHER MAXLITE PRODUCTS, OR FOR LIGHTING QUESTIONS IN GENERAL; PLEASE CONTACT:

[info@maxlite.com](mailto:info@maxlite.com)

<http://www.maxlite.com>

1-800-555-5629

Line Momeni

[lmomeni@maxlite.com](mailto:lmomeni@maxlite.com)

