

Alachua Legacy Park Soccer

Alachua, FL

Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
S1-S2	70'	70'	7	TLC-LED-1150	8.05 kW	A
		70'	7	TLC-LED-1150	8.05 kW	B
S3-S4	70'	70'	7	TLC-LED-1150	8.05 kW	A
S5-S6	70'	70'	7	FUTURE	8.05 kW	C
		70'	7	TLC-LED-1150	8.05 kW	B
6			70		80.50 kW	

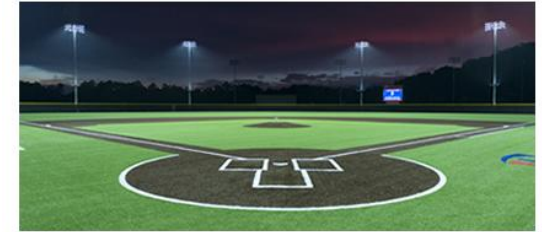
Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Soccer 1	32.2 kW	28
B	Soccer 2	32.2 kW	28
C	Soccer 3	16.1 kW	14

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1150	LED 5700K - 75 CRI	1150W	121,000	>63,500	>63,500	>63,500	56

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Blanket Grid	Horizontal	4.77	0	40	336458.30		A,B,C	70
Soccer 1	Horizontal Illuminance	33.3	26.5	42.3	1.60	1.26	A	28
Soccer 2	Horizontal Illuminance	33.1	26.4	41.6	1.58	1.25	B	28
Soccer 3	Horizontal Illuminance	0	0	0	0.00		C	14

From Hometown to Professional



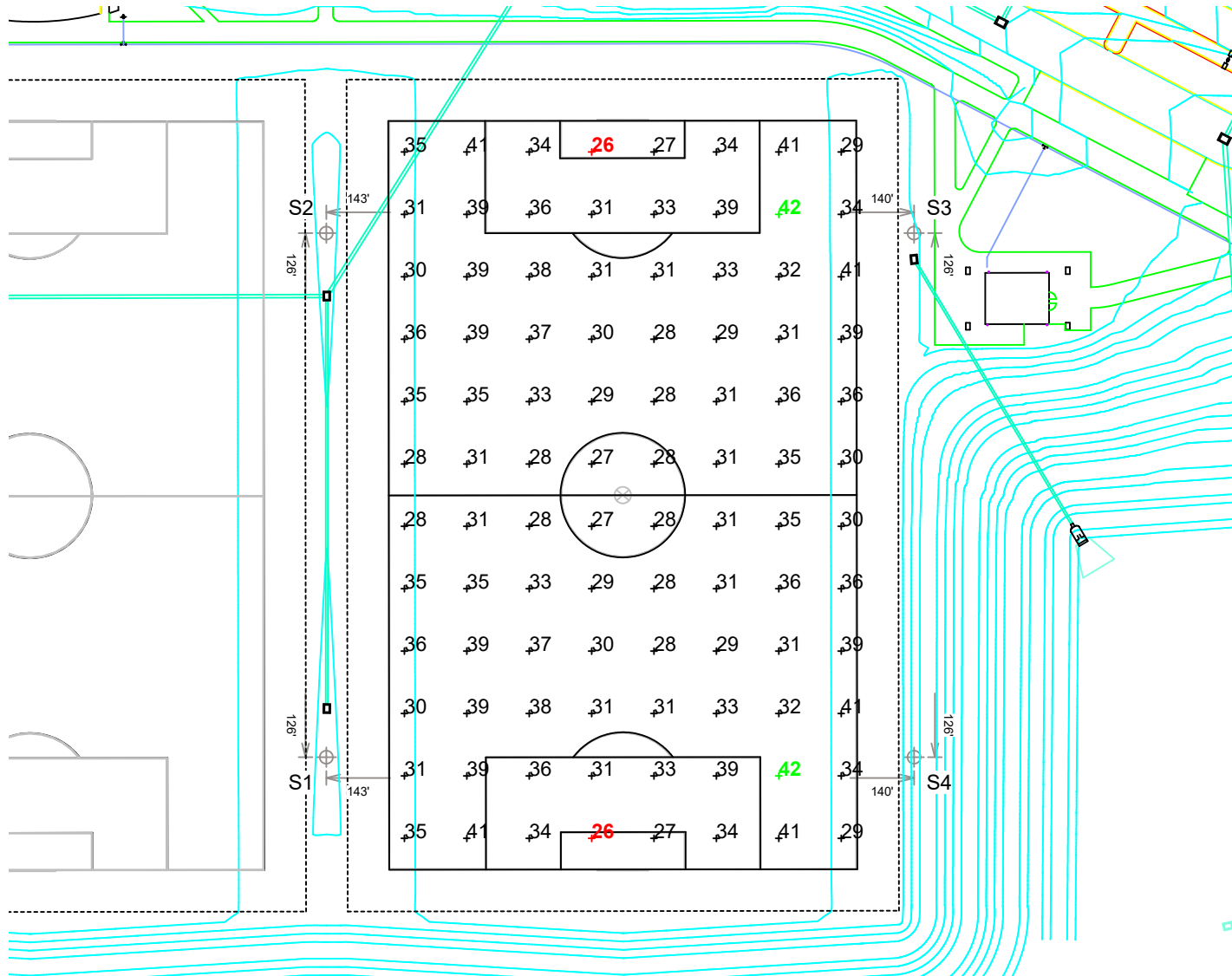
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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	S1-S2	70'	-	70'	TLC-LED-1150	7/7*	7	7
2	S3-S4	70'	-	70'	TLC-LED-1150	7/7	7	0
TOTALS							42	28

* This structure utilizes a back-to-back mounting configuration



Alachua Legacy Park Soccer

Alachua, FL

GRID SUMMARY

Name: Soccer 1
Size: 360' x 225'
Spacing: 30.0' x 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid	
Guaranteed Average:	30
Scan Average:	33.30
Maximum:	42.27
Minimum:	26.49
Avg / Min:	1.26
Guaranteed Max / Min:	2.5
Max / Min:	1.60
UG (adjacent pts):	1.39
CU:	0.84
No. of Points:	96

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI
Luminaire Output: 121,000 lumens
No. of Luminaires: 28
Total Load: 32.2 kW

Luminaire Type	Lumen Maintenance		
	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>63,500	>63,500	>63,500

Reported per TM-21-11. See luminaire datasheet for details.

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

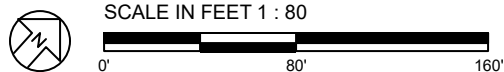
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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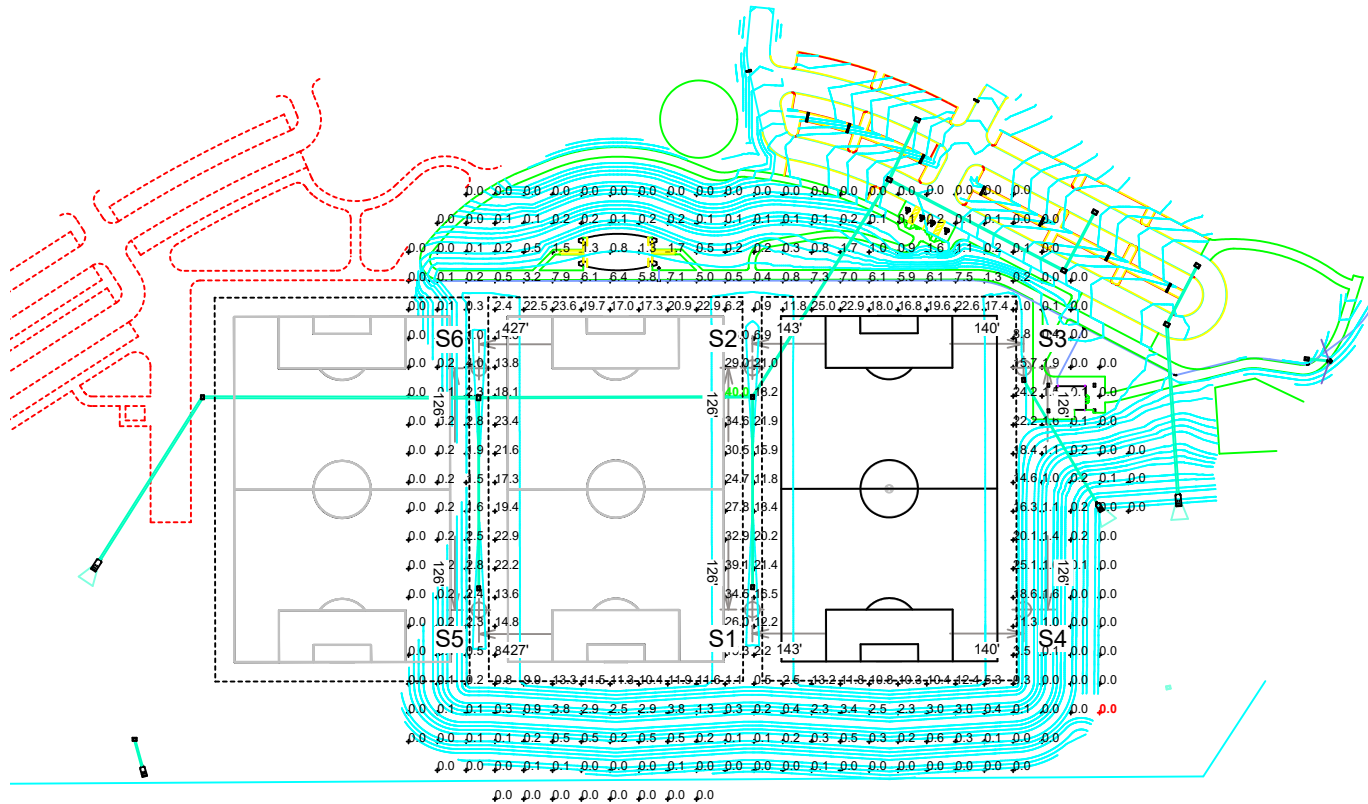


Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	S1-S2	70'	-	70'	TLC-LED-1150	7/7*	14	0
2	S3-S4	70'	-	70'	TLC-LED-1150	7	7	0
2	S5-S6	70'	-	70'	TLC-LED-1150	7/7*	7	7
6	TOTALS					70	56	14

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GRID SUMMARY

Name: Blanket Grid
Size: 360' x 225'
Spacing: 30.0' x 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average: 4.77
 Maximum: 39.97
 Minimum: 0.00
 Avg / Min: 40121.45
Max / Min: 336458.25
 UG (adjacent pts): 43.47
 CU: 0.80
 No. of Points: 337

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI
Luminaire Output: 121,000 lumens
No. of Luminaires: 56
Total Load: 64.4 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>63,500	>63,500	>63,500

Reported per TM-21-11. See luminaire datasheet for details.

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Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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SCALE IN FEET 1 : 200

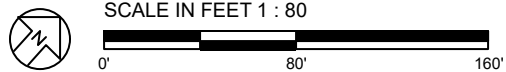
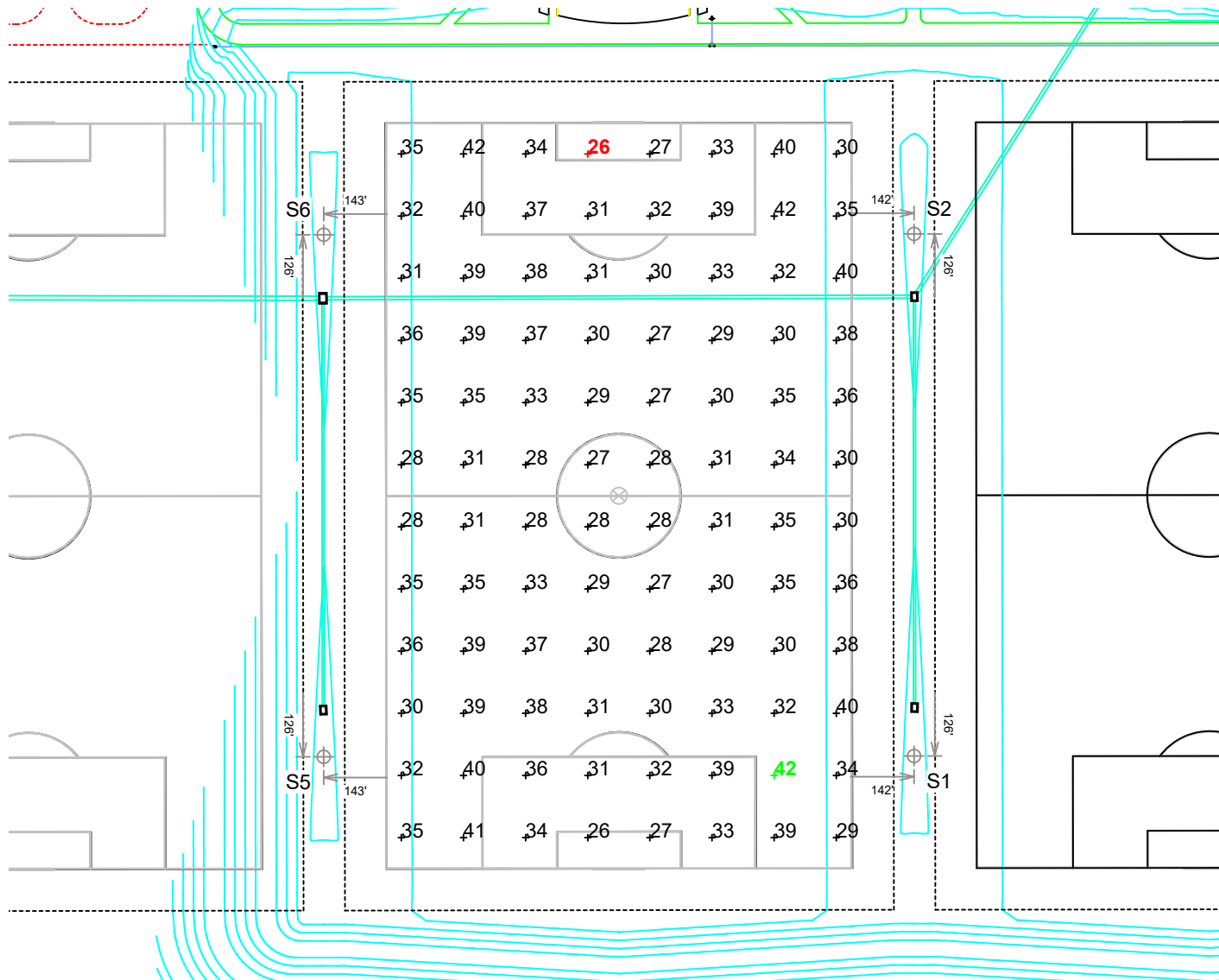


Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	S1-S2	70'	-	70'	TLC-LED-1150	7/7*	7	7
2	S5-S6	70'	-	70'	TLC-LED-1150	7/7*	7	7
4	TOTALS						56	28

* This structure utilizes a back-to-back mounting configuration



Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

Alachua Legacy Park Soccer

Alachua, FL

GRID SUMMARY

Name: Soccer 2
Size: 360' x 225'
Spacing: 30.0' x 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid	
Guaranteed Average:	30
Scan Average:	33.11
Maximum:	41.56
Minimum:	26.39
Avg / Min:	1.25
Guaranteed Max / Min:	2.5
Max / Min:	1.58
UG (adjacent pts):	1.35
CU:	0.84
No. of Points:	96

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI
Luminaire Output: 121,000 lumens
No. of Luminaires: 28
Total Load: 32.2 kW

Luminaire Type	Lumen Maintenance		
	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>63,500	>63,500	>63,500

Reported per TM-21-11. See luminaire datasheet for details.

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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EQUIPMENT LAYOUT

INCLUDES:
 · Soccer 1
 · Soccer 2
 · Soccer 3

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

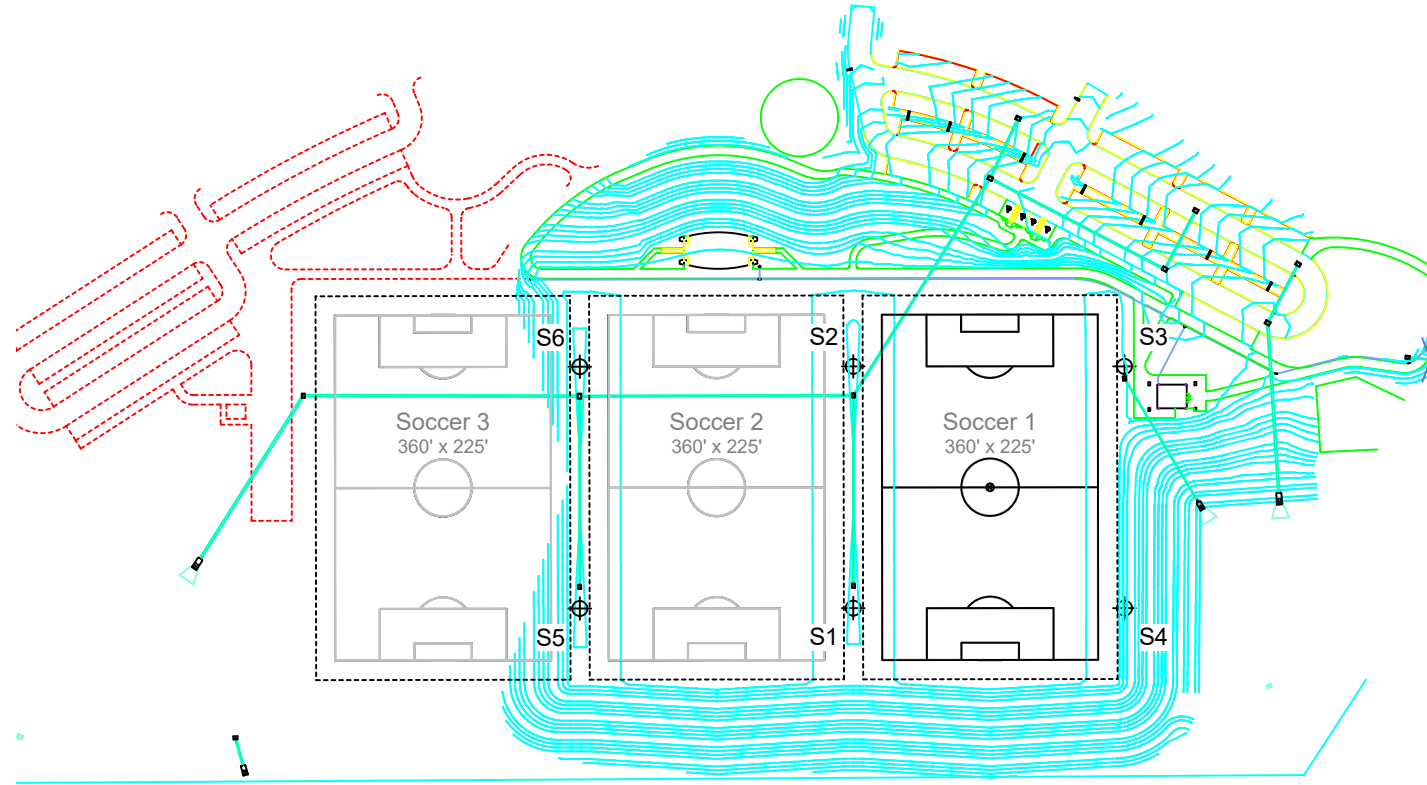
EQUIPMENT LIST FOR AREAS SHOWN

QTY	Pole			Luminaires		
	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY/POLE
4	S1-S2 S5-S6	70'	-	70'	TLC-LED-1150	7/7*
2	S3-S4	70'	-	70'	TLC-LED-1150	7
TOTALS						70

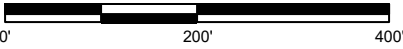
* This structure utilizes a back-to-back mounting configuration

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1150	6.8	6.5	5.9	5.1	4.1	3.7	3.0



SCALE IN FEET 1 : 200



Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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GLARE IMPACT

Summary

Map indicates the maximum candela an observer would see when facing the brightest light source from any direction.

A well-designed lighting system controls light to provide maximum useful on-field illumination with minimal destructive off-site glare.

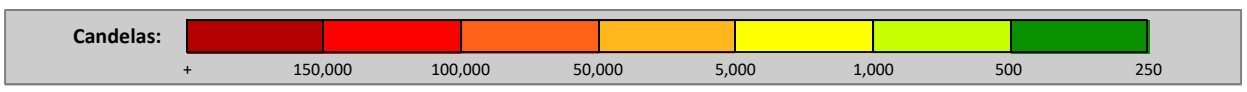
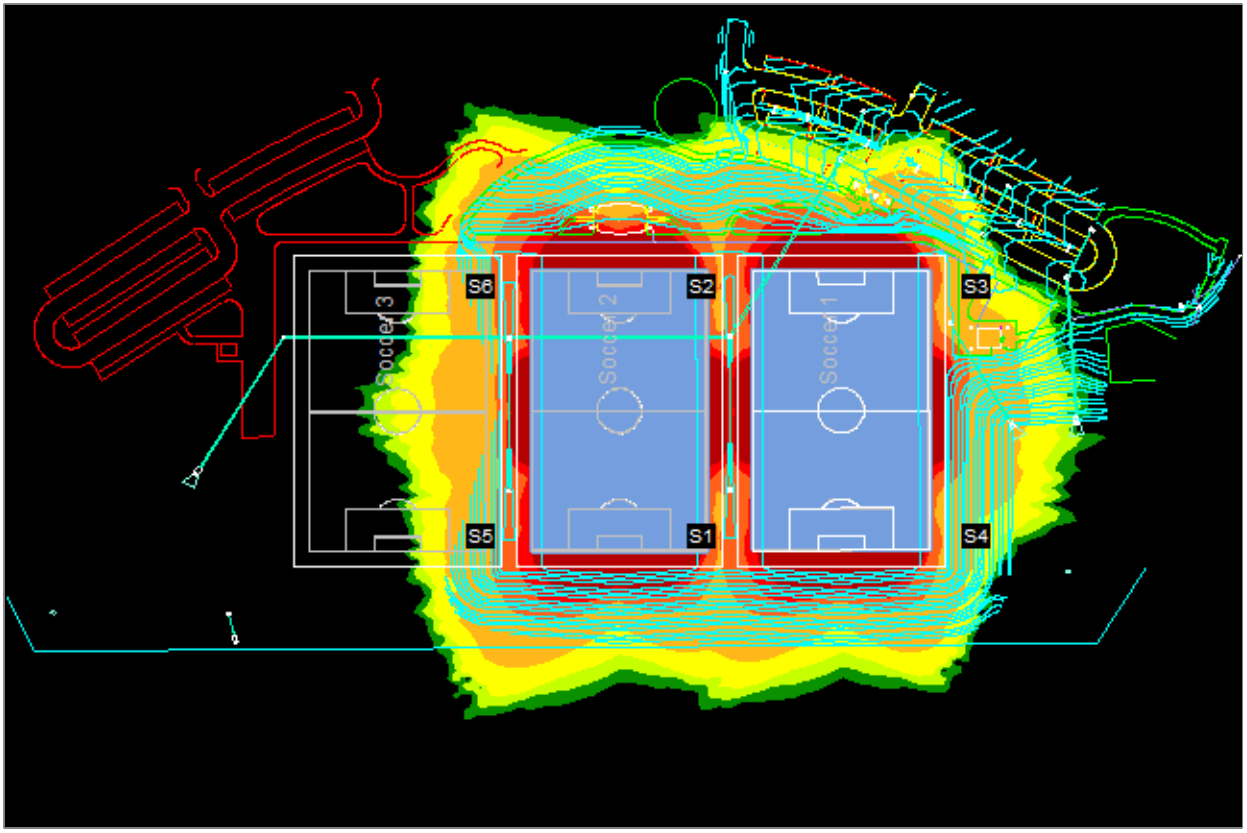
GLARE

Candela Levels

High Glare: 150,000 or more candela
Should only occur on or very near the lit area where the light source is in direct view. Care must be taken to minimize high glare zones.

Significant Glare: 25,000 to 75,000 candela
Equivalent to high beam headlights of a car.

Minimal to No Glare: 500 or less candela
Equivalent to 100W incandescent light bulb.



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