

Gościcino Soccer LED Upgrade

Gościcino,

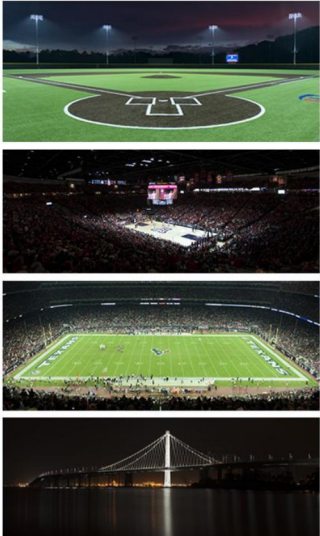
Lighting System

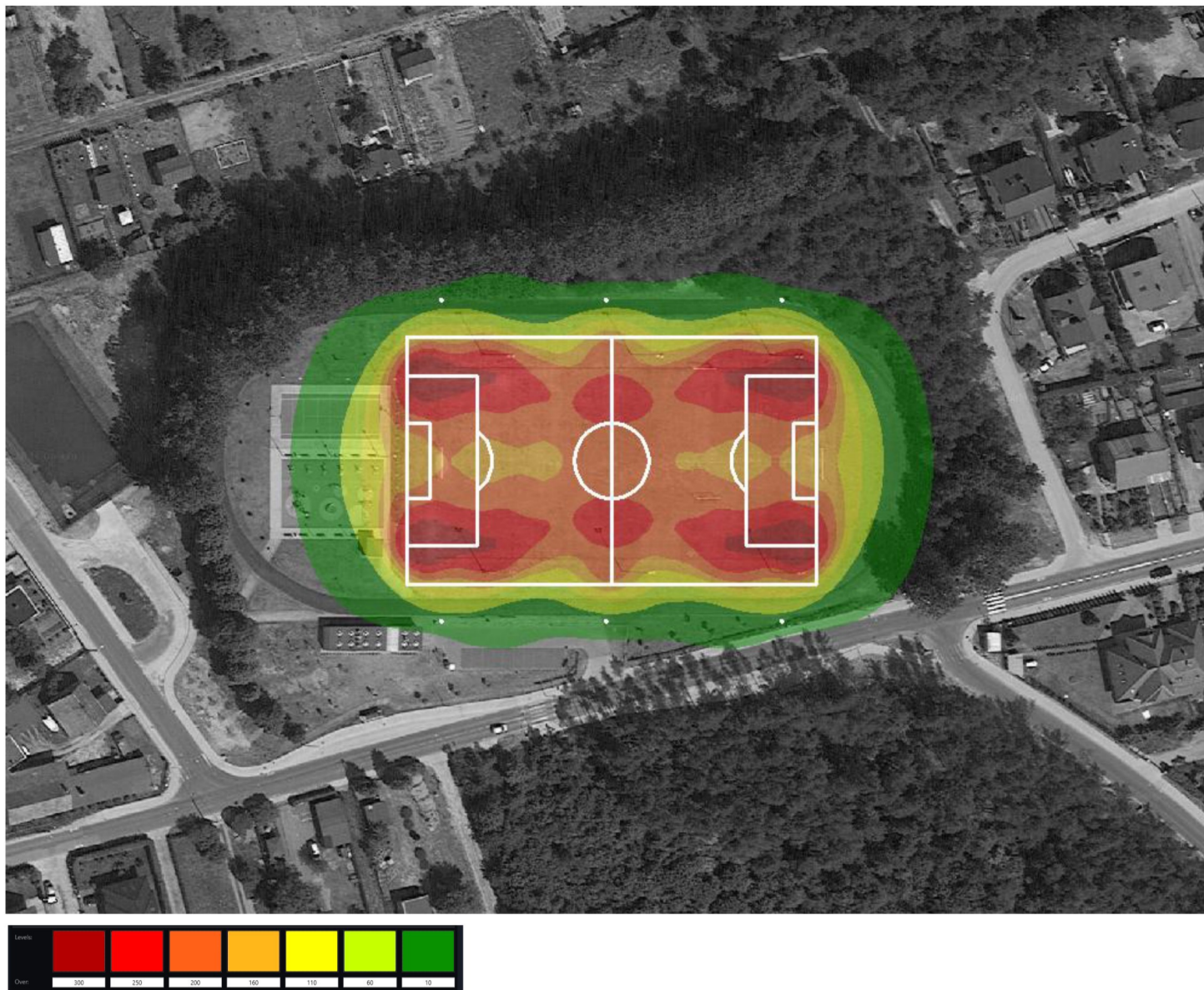
Pole/Fixture Summary	
Pole ID	Pole Height
S1	15.2 m
S2	15.2 m
S3-S4	15.2 m
S5	15.2 m
S6	15.2 m
6	

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Min/Max	Min/Ave		
Blanket-Grid	Horizontal	31.6	0	424	0.00	0.00	A	10
Blanket-Grid	True Max Vert Illuminance	43.1	0	540	0.00	0.00	A	10
Soccer	Horizontal Illuminance	260	188	341	0.55	0.72	A	10

From Hometown to Professional





Plot based on maintained horizontal lux at the ground level.

Zacienione wydruki

Przedstawione wykresy służą do zademonstrowania zasięgu oświetlenia określonego układu systemu oświetleniowego.

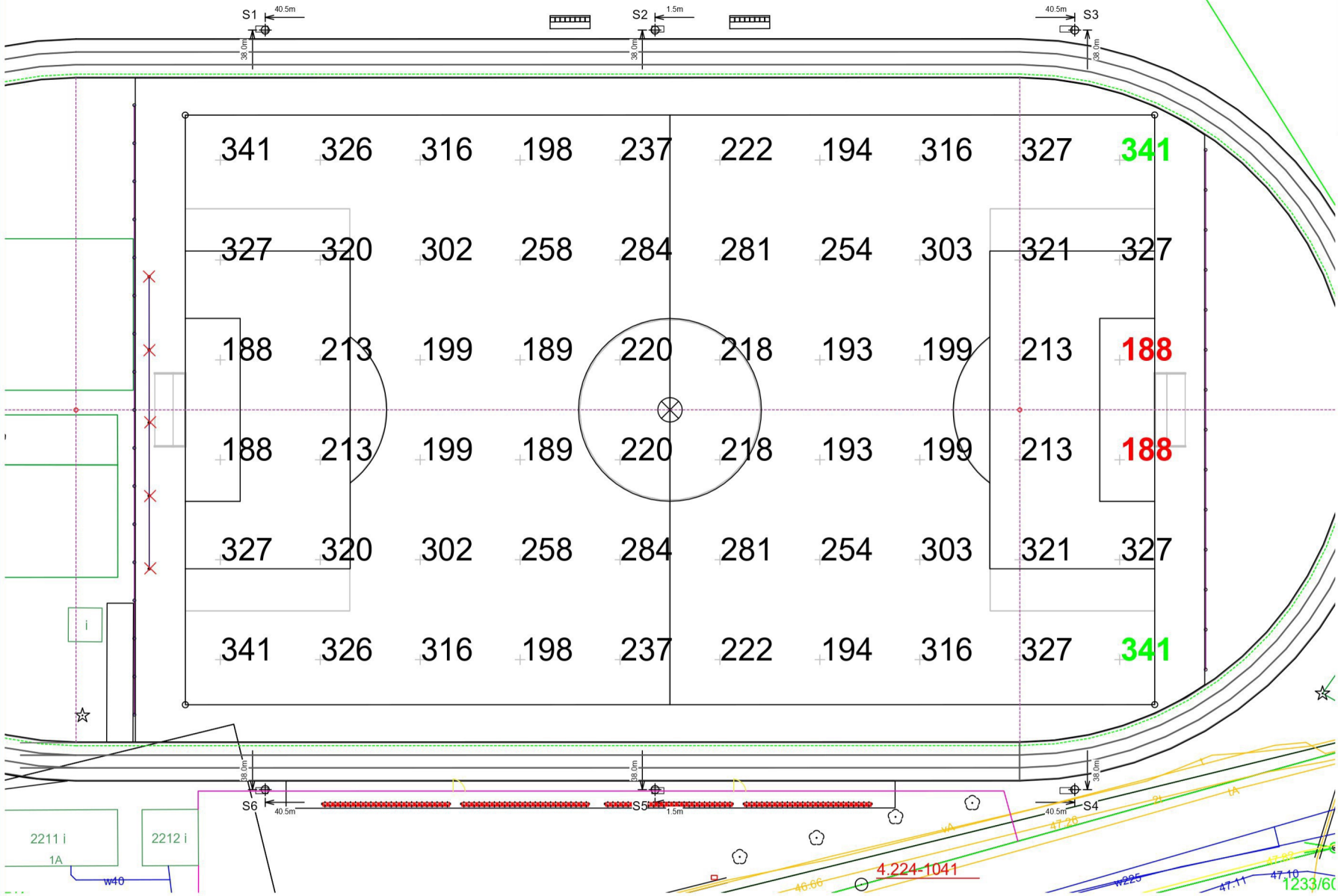
W sposób graficzny można przedstawić sposób kontroli światła i skuteczności systemu w minimalizowaniu problemów związanych z rozlaniem światła przy jednoczesnym utrzymaniu jakości światła.

Jednak graficzna interpretacja ma jedynie charakter ilustracyjny i należy ją stosować wraz z pełnymi wynikami obliczeń.



Equipment List For Areas Shown								
Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
4	S1 S3-S4 S6	15.24m	-	15.25m	TLC-LED-1500	2	2	0
2	S2 S5	15.24m	-	15.25m	TLC-LED-1500	1	1	0
6	Totals					10	10	0

*Above Grade level relative to the field



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Grid Summary

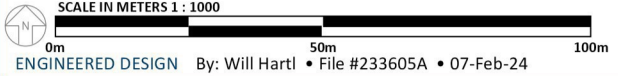
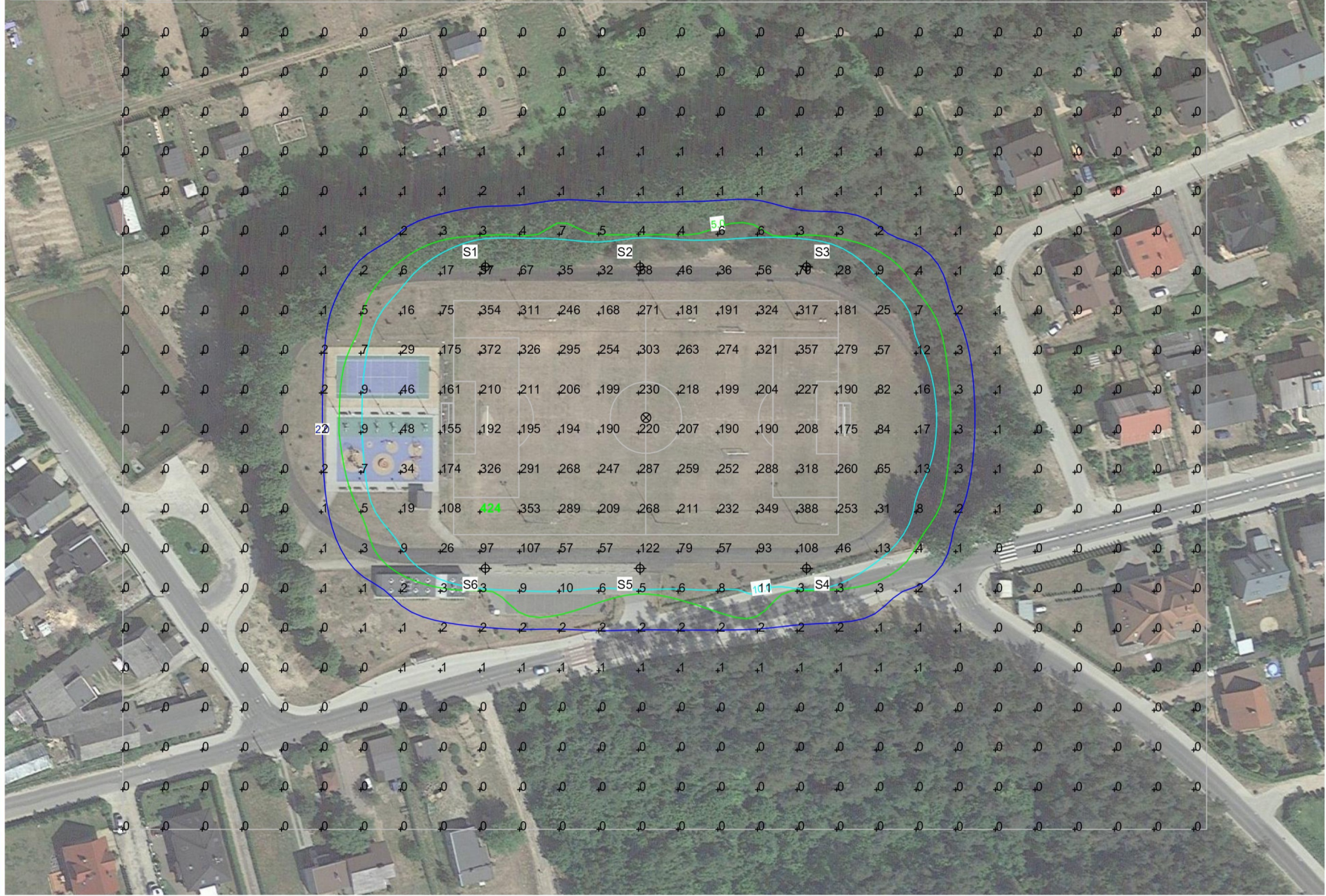
Name Soccer
Size 97.0m x 59.0m
Spacing 10.0m x 10.0m
Height 1.0m above grade

Illumination Summary

Entire Grid		MAINTAINED HORIZONTAL LUX
Scan Average	260.49	
Maximum	341	
Minimum	188	
Min/Avg	0.72	
Min/Max	0.55	
UG (adjacent pts)	1.74	
CU	0.84	
No. of Points	60	
LUMINAIRE INFORMATION		
Applied Circuits	A	
No. of Luminaires	10	
Total Load	14.10 kW	

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
4	S1 S3-S4 S6	15.24m	-	15.25m	TLC-LED-1500	2	2	0
2	S2 S5	15.24m	-	15.25m	TLC-LED-1500	1	1	0
6	Totals					10	10	0

*Above Grade level relative to the field



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

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Grid Summary	
Name	Blanket-Grid
Spacing	10.0m x 10.0m
Height	1.0m above grade

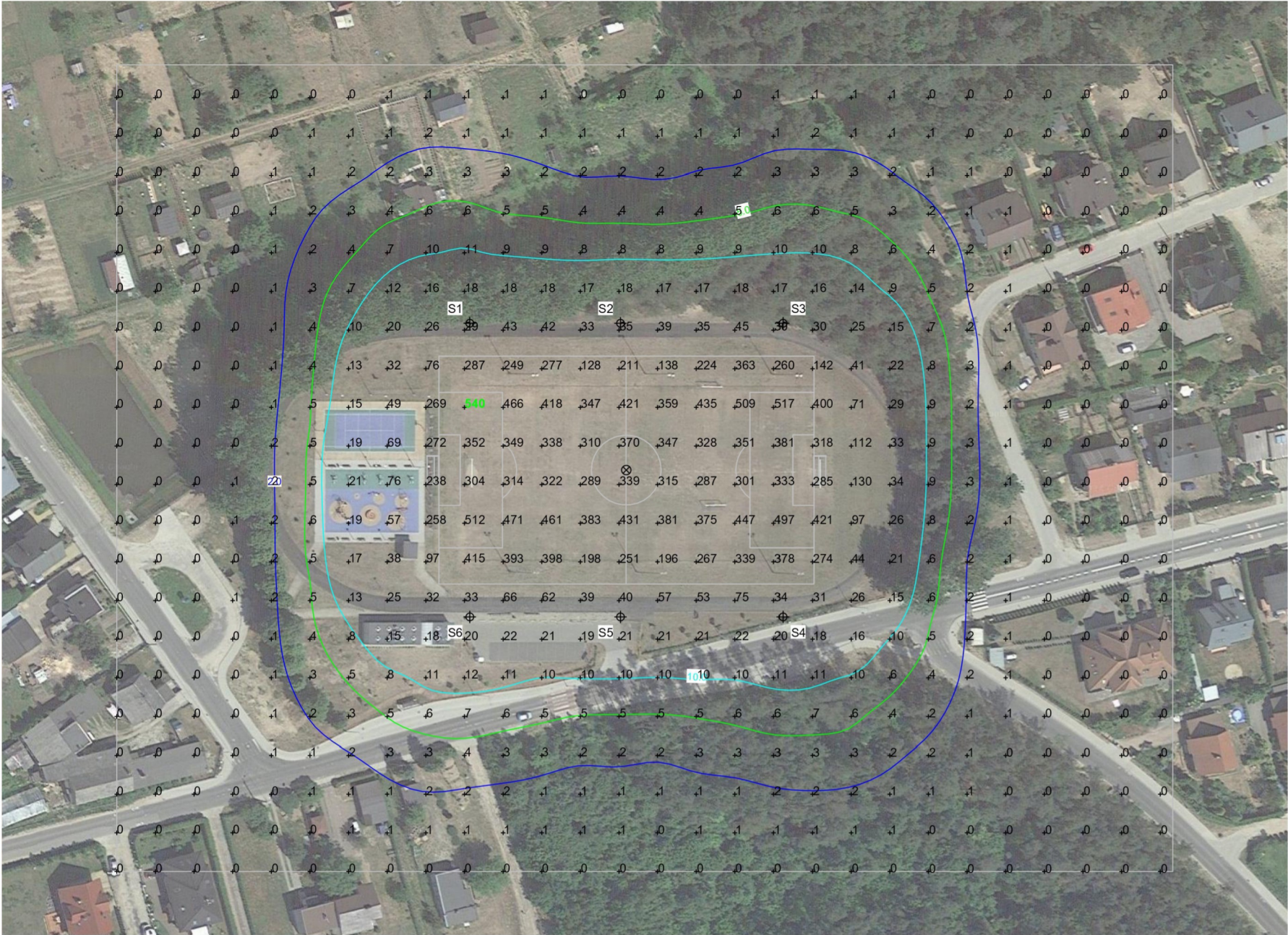
Illumination Summary	
MAINTAINED HORIZONTAL LUX	
Entire Grid	
Scan Average	31.61
Maximum	424
Minimum	0
Min/Avg	0.00
Min/Max	0.00
UG (adjacent pts)	31.53
CU	1.00
No. of Points	6120
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	10
Total Load	14.10 kW

ILLUMINATION SUMMARY

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Grid Summary	
Name	Blanket-Grid
Spacing	10.0m x 10.0m
Height	1.0m above grade

Illumination Summary	
MAINTAINED VERTICAL LUX: 90° TIR	
Entire Grid	
Scan Average	43.14
Maximum	540
Minimum	0
Min/Avg	0.00
Min/Max	0.00
UG (adjacent pts)	16.59
CU	1.00
No. of Points	588
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	10
Total Load	14.10 kW



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Equipment Layout

INCLUDES:

· Soccer

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

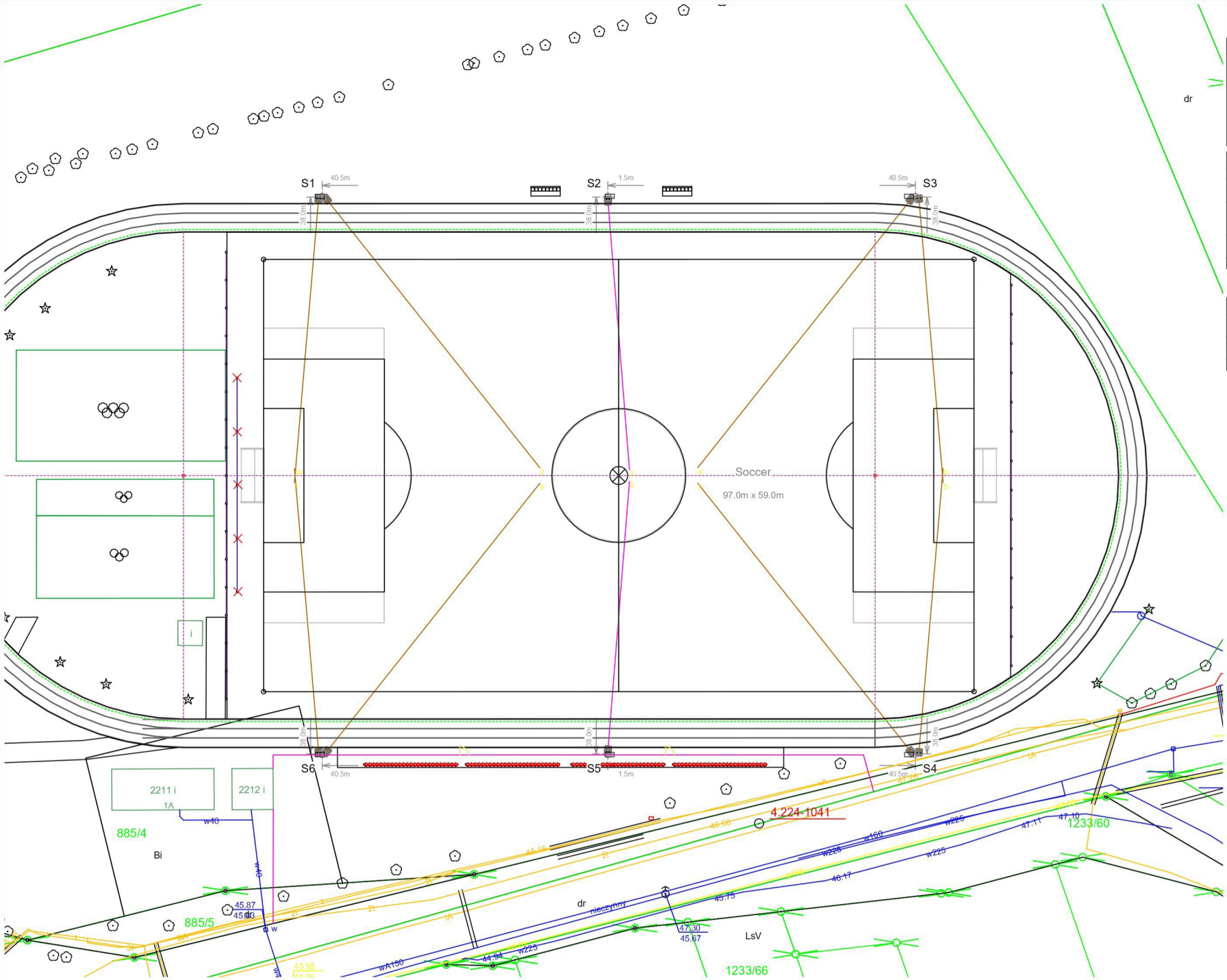
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Equipment List For Areas Shown

QTY	LOCATION	Pole		ABOVE GRADE LEVEL	Luminaires	
		SIZE	GRADE ELEVATION		LUMINAIRE TYPE	QTY/POLE
4	S1 S3-S4 S6	15.24m	-	15.25m	TLC-LED-1500	2
2	S2 S5	15.24m	-	15.25m	TLC-LED-1500	1
6	Totals					10

Single Luminaire Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)					
Single Phase Voltage	220 (50)	230 (50)	240 (50)	380 (50)	400 (50)	415 (50)
TLC-LED-1500	7.9	7.6	7.3	4.6	4.4	4.2



SCALE IN METERS 1 : 500
0m 25m 50m
ENGINEERED DESIGN By: Will Hartl • File #233605A • 07-Feb-24

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