

Wellesley High School Multi Purpose Field

Wellesley,MA

NOTES: With additional approval, lighting design should meet IDA requirements.

Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
F1-F2	80'	80'	1	TLC-LED-1200	1.17 kW	B
		80'	1	TLC-LED-1200	1.17 kW	A
		80'	6	TLC-LED-1500	8.58 kW	A
		80'	1	TLC-LED-900	0.89 kW	B
		80'	1	TLC-LED-900	0.89 kW	A
		25'	2	TLC-BT-575	1.15 kW	A
F3-F4	80'	60'	1	TLC-LED-400	0.40 kW	C
		80'	1	TLC-LED-1200	1.17 kW	B
		80'	2	TLC-LED-1200	2.34 kW	A
		80'	5	TLC-LED-1500	7.15 kW	A
		80'	1	TLC-LED-900	0.89 kW	B
		80'	1	TLC-LED-900	0.89 kW	A
		25'	2	TLC-BT-575	1.15 kW	A
4			50		55.68 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Football	46.64 kW	40
B	Track	8.24 kW	8
C	Bleachers	0.8 kW	2

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	22
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000	8
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	10
TLC-LED-400	LED 5700K - 75 CRI	400W	46,500	>120,000	>120,000	>120,000	2
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	8

Light Level Summary

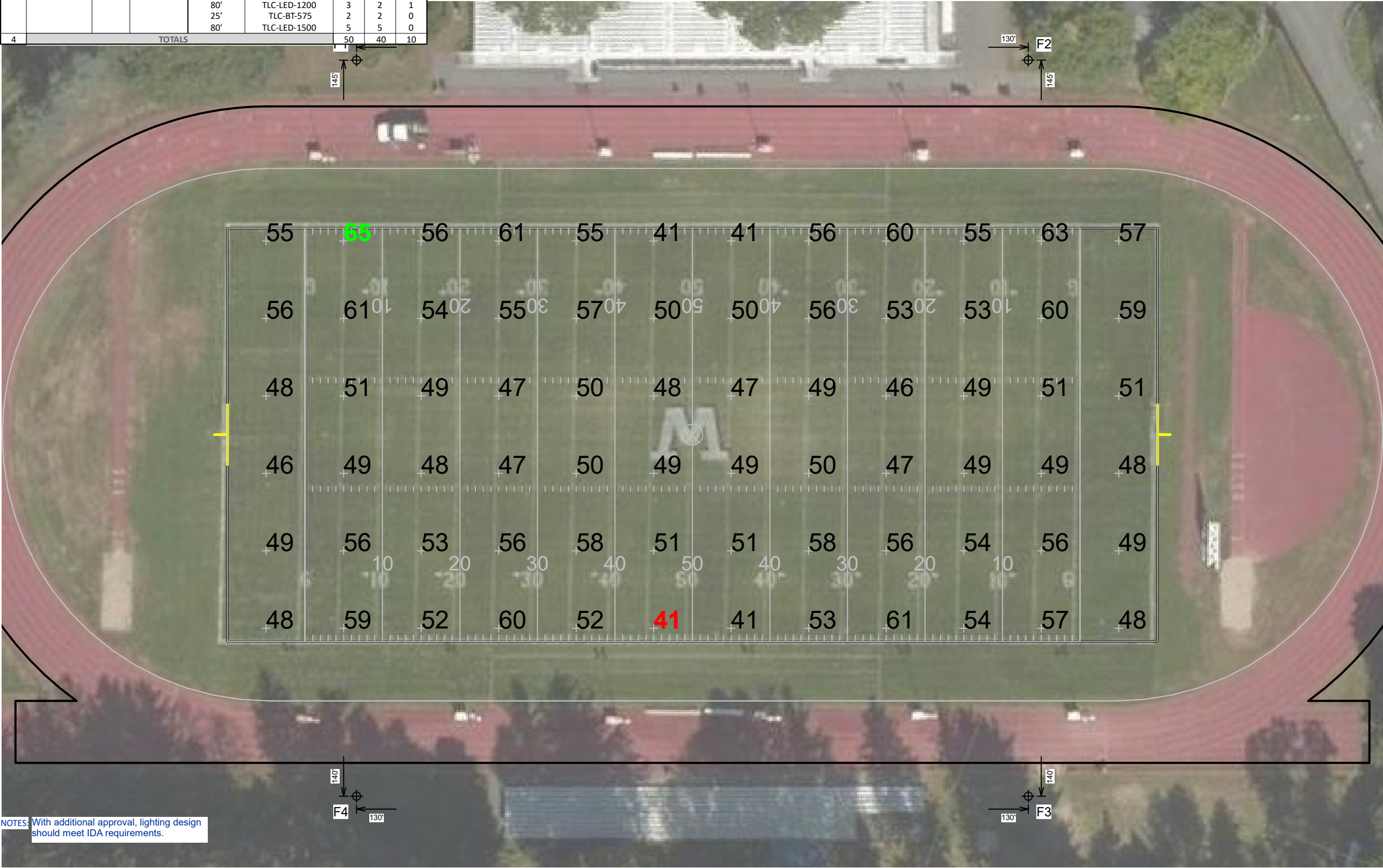
Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Bleacher 1	Horizontal	6.22	1	11	9.05	6.22	C	2
Bleacher 2	Horizontal	3.44	2	8	4.35	1.72	A	40
Football	Horizontal Illuminance	52.3	41	65	1.61	1.28	A	40
Spill Grid	Horizontal	5.08	0	70	0.00		A	40
Spill Grid	Max Vert Illuminance (by Light Bank)	6.81	0	100	0.00		A	40
Track Spill	Horizontal Illuminance	0	0	0	0.00		A	40
Track Spill	Max Candela Metric	119	4.40	393	89.36	27.10	A	40
Track Spill	Max Vertical Illuminance Metric	0	0	0.01	0.00		A	40
Track	Horizontal Illuminance	5.74	1	15	25.87	5.74	B	8

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	F1-F2	80'	-	80'	TLC-LED-900	2	1	1
				80'	TLC-LED-1200	2	1	1
				25'	TLC-BT-575	2	2	0
				60'	TLC-LED-400	1	0	1
				80'	TLC-LED-1500	6	6	0
2	F3-F4	80'	-	80'	TLC-LED-900	2	1	1
				80'	TLC-LED-1200	3	2	1
				25'	TLC-BT-575	2	2	0
				80'	TLC-LED-1500	5	5	0
4	TOTALS					50	40	10



Wellesley High School Multi Purpose Field  
Wellesley,MA

GRID SUMMARY	
Name:	Football
Size:	360' x 160'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Guaranteed Average:	50
Scan Average:	52.34
Maximum:	65
Minimum:	41
Avg / Min:	1.29
Guaranteed Max / Min:	2
Max / Min:	1.61
UG (adjacent pts):	1.36
CU:	0.67
No. of Points:	72
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	40
Total Load:	46.64 kW

**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.

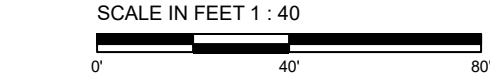


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ILLUMINATION SUMMARY

NOTES: With additional approval, lighting design should meet IDA requirements.



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	F1-F2	80'	0'	80'	TLC-LED-900	2	1	1
				80'	TLC-LED-1200	2	1	1
				25'	TLC-BT-575	2	0	2
				60'	TLC-LED-400	1	0	1
				80'	TLC-LED-1500	6	0	6
2	F3-F4	80'	0'	80'	TLC-LED-900	2	1	1
				80'	TLC-LED-1200	3	1	2
				25'	TLC-BT-575	2	0	2
				80'	TLC-LED-1500	5	0	5
4	TOTALS					50	8	42

Wellesley High School Multi Purpose Field  
Wellesley,MA

GRID SUMMARY	
Name:	Track
Size:	Irregular
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	5.74
Maximum:	15
Minimum:	1
Avg / Min:	9.73
Max / Min:	25.87
UG (adjacent pts):	0.00
CU:	0.27
No. of Points:	48
LUMINAIRE INFORMATION	
Applied Circuits:	B
No. of Luminaires:	8
Total Load:	8.24 kW

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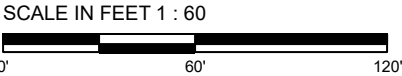
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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	0'	80'	TLC-LED-900	2	1	1
				80'	TLC-LED-1200	2	1	1
				25'	TLC-BT-575	2	2	0
				60'	TLC-LED-400	1	0	1
				80'	TLC-LED-1500	6	6	0
2	F3-F4	80'	0'	80'	TLC-LED-900	2	1	1
				80'	TLC-LED-1200	3	2	1
				25'	TLC-BT-575	2	2	0
				80'	TLC-LED-1500	5	5	0
4	TOTALS					50	40	10



Wellesley High School Multi Purpose Field  
Wellesley,MA

GRID SUMMARY	
Name:	Bleacher 2
Size:	Irregular
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	3.44
Maximum:	8
Minimum:	2
Avg / Min:	1.91
Max / Min:	4.35
UG (adjacent pts):	1.92
CU:	0.00
No. of Points:	32
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	40
Total Load:	46.64 kW

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ILLUMINATION SUMMARY



EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	0'	80'	TLC-LED-900	2	0	2
				80'	TLC-LED-1200	2	0	2
				25'	TLC-BT-575	2	0	2
				60'	TLC-LED-400	1	1	0
				80'	TLC-LED-1500	6	0	6
2	TOTALS					26	2	24

Wellesley High School Multi Purpose Field  
Wellesley,MA

GRID SUMMARY	
Name:	Bleacher 1
Size:	Irregular
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	6.22
Maximum:	11
Minimum:	1
Avg / Min:	5.07
Max / Min:	9.05
UG (adjacent pts):	3.54
CU:	0.59
No. of Points:	95
LUMINAIRE INFORMATION	
Applied Circuits:	C
No. of Luminaires:	2
Total Load:	0.8 kW

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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	F1-F2	80'	0'	80'	TLC-LED-900	2	1	1	
				80'	TLC-LED-1200	2	1	1	
				25'	TLC-BT-575	2	2	0	
				60'	TLC-LED-400	1	0	1	
				80'	TLC-LED-1500	6	6	0	
1	F3	80'	0'	80'	TLC-LED-900	2	1	1	
				80'	TLC-LED-1200	3	2	1	
				25'	TLC-BT-575	2	2	0	
				80'	TLC-LED-1500	5	5	0	
1	F4	80'	0'	80'	TLC-LED-900	2	1	1	
				80'	TLC-LED-1200	3	2	1	
				25'	TLC-BT-575	2	2	0	
				80'	TLC-LED-1500	5	5	0	
4	TOTALS					50	40	10	



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Wellesley High School Multi Purpose Field  
Wellesley,MA

GRID SUMMARY	
Name:	Spill Grid
Size:	Irregular
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	5.08
Maximum:	70
Minimum:	0
Avg / Min:	-
Max / Min:	-
UG (adjacent pts):	113.37
CU:	0.91
No. of Points:	9144
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	40
Total Load:	46.64 kW

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ILLUMINATION SUMMARY



EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
2	F1-F2	80'	0'	80'	TLC-LED-900	2	1	1	
				80'	TLC-LED-1200	2	1	1	
				25'	TLC-BT-575	2	2	0	
				60'	TLC-LED-400	1	0	1	
				80'	TLC-LED-1500	6	6	0	
1	F3	80'	0'	80'	TLC-LED-900	2	1	1	
				80'	TLC-LED-1200	3	2	1	
				25'	TLC-BT-575	2	2	0	
				80'	TLC-LED-1500	5	5	0	
1	F4	80'	0'	80'	TLC-LED-900	2	1	1	
				80'	TLC-LED-1200	3	2	1	
				25'	TLC-BT-575	2	2	0	
				80'	TLC-LED-1500	5	5	0	
4	TOTALS					50	40	10	



Wellesley High School Multi Purpose Field  
Wellesley,MA

GRID SUMMARY	
Name:	Spill Grid
Size:	Irregular
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED MAX VERTICAL FOOTCANDLES	
Entire Grid	
Scan Average:	6.81
Maximum:	100
Minimum:	0
Avg / Min:	-
Max / Min:	-
UG (adjacent pts):	180.12
CU:	0.91
No. of Points:	9144
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	40
Total Load:	46.64 kW

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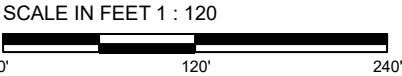
ILLUMINATION SUMMARY



EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	0'	80'	TLC-LED-900	2	1	1
				80'	TLC-LED-1200	2	1	1
				25'	TLC-BT-575	2	2	0
				60'	TLC-LED-400	1	0	1
				80'	TLC-LED-1500	6	6	0
1	F3	80'	0'	80'	TLC-LED-900	2	1	1
				80'	TLC-LED-1200	3	2	1
				25'	TLC-BT-575	2	2	0
				80'	TLC-LED-1500	5	5	0
1	F4	80'	0'	80'	TLC-LED-900	2	1	1
				80'	TLC-LED-1200	3	2	1
				25'	TLC-BT-575	2	2	0
				80'	TLC-LED-1500	5	5	0
4	TOTALS					50	40	10



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

Wellesley High School Multi Purpose Field  
Wellesley,MA

GRID SUMMARY	
Name:	Track Spill
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES	
Scan Average:	Entire Grid 0.0008
Maximum:	0.00
Minimum:	0.00
No. of Points:	80

LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	40
Total Load:	46.64 kW

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Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	0'	80'	TLC-LED-900	2	1	1
				80'	TLC-LED-1200	2	1	1
				25'	TLC-BT-575	2	2	0
				60'	TLC-LED-400	1	0	1
				80'	TLC-LED-1500	6	6	0
1	F3	80'	0'	80'	TLC-LED-900	2	1	1
				80'	TLC-LED-1200	3	2	1
				25'	TLC-BT-575	2	2	0
				80'	TLC-LED-1500	5	5	0
1	F4	80'	0'	80'	TLC-LED-900	2	1	1
				80'	TLC-LED-1200	3	2	1
				25'	TLC-BT-575	2	2	0
				80'	TLC-LED-1500	5	5	0
4	TOTALS					50	40	10



Wellesley High School Multi Purpose Field  
Wellesley,MA

GRID SUMMARY	
Name:	Track Spill
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
Scan Average:	Entire Grid 0.0023
Maximum:	0.01
Minimum:	0.00
No. of Points:	80

LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	40
Total Load:	46.64 kW

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ILLUMINATION SUMMARY



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QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	0'	80'	TLC-LED-900	2	1	1
				80'	TLC-LED-1200	2	1	1
				25'	TLC-BT-575	2	2	0
				60'	TLC-LED-400	1	0	1
				80'	TLC-LED-1500	6	6	0
1	F3	80'	0'	80'	TLC-LED-900	2	1	1
				80'	TLC-LED-1200	3	2	1
				25'	TLC-BT-575	2	2	0
				80'	TLC-LED-1500	5	5	0
1	F4	80'	0'	80'	TLC-LED-900	2	1	1
				80'	TLC-LED-1200	3	2	1
				25'	TLC-BT-575	2	2	0
				80'	TLC-LED-1500	5	5	0
4	TOTALS					50	40	10



Wellesley High School Multi Purpose Field  
Wellesley,MA

GRID SUMMARY	
Name:	Track Spill
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 119.2396
Maximum:	393.37
Minimum:	4.40
No. of Points:	80
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	40
Total Load:	46.64 kW

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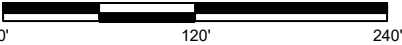
ILLUMINATION SUMMARY



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SCALE IN FEET 1 : 120



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

Wellesley High School Multi Purpose Field  
Wellesley,MA

EQUIPMENT LAYOUT

INCLUDES:

- Football
- Track

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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
2	F1-F2	80'	-	80'	TLC-LED-900	2
				80'	TLC-LED-1200	2
				25'	TLC-BT-575	2
				60'	TLC-LED-400	1
				80'	TLC-LED-1500	6
1	F3	80'	-	80'	TLC-LED-900	2
				80'	TLC-LED-1200	3
				25'	TLC-BT-575	2
				80'	TLC-LED-1500	5
1	F4	80'	-	80'	TLC-LED-900	2
				80'	TLC-LED-1200	3
				25'	TLC-BT-575	2
				80'	TLC-LED-1500	5
4	TOTALS					50

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)	480 (60)
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	480 (60)
TLC-LED-1500	8.5	8.1	7.4	6.4	5.1	4.7
TLC-LED-900	5.3	5.0	4.6	4.0	3.2	2.9
TLC-LED-1200	7.0	6.6	6.1	5.2	4.2	4.0
TLC-LED-400	2.3	2.2	2.0	1.7	1.4	1.3
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8



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