

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
		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

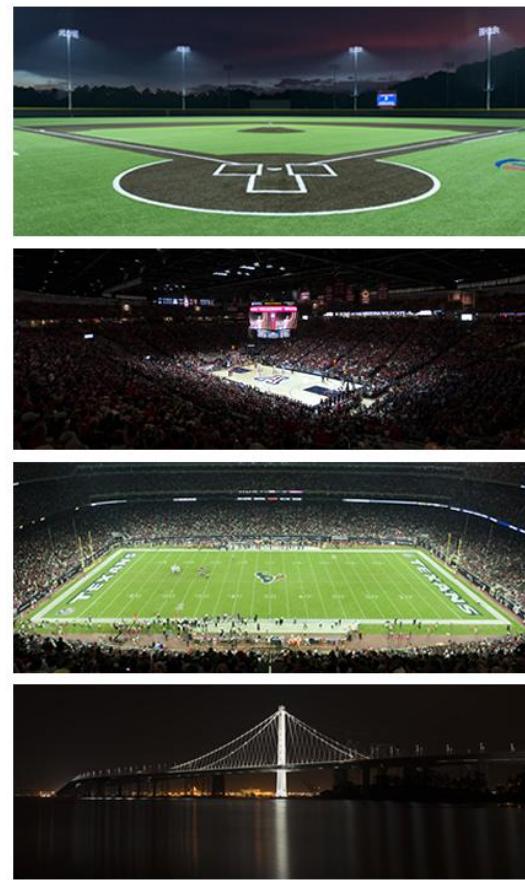
Fixture Type Summary

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

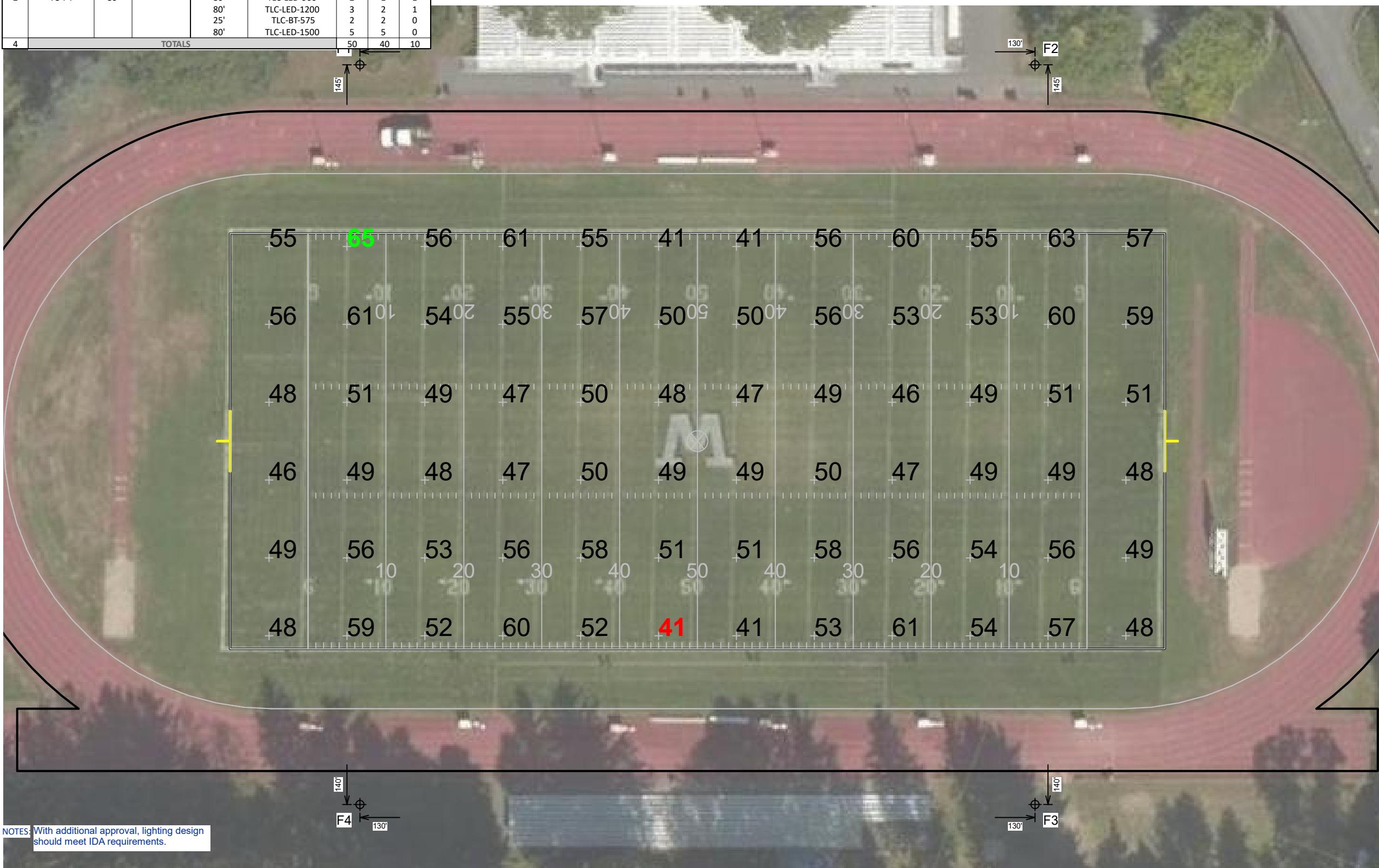
Light Level Summary

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



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
				TOTALS		50	40	10



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

SCALE IN FEET 1 : 40

ENGINEERED DESIGN By: Tanner Lapphier : File #197283D : 02-Jun-21

Pole location(s) \oplus dimensions are relative
to 0.0 reference point(s) \otimes

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

MAINTAINED HORIZONTAL FOOTCANDLES	
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 $\pm 3\%$ nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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ILLUMINATION SUMMARY

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
				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	
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

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 $\pm 3\%$ nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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

SCALE IN FEET 1 : 60

Pole location(s) \oplus dimensions are relative
to 0.0 reference point(s) \otimes

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ENGINEERED DESIGN By: Tanner Lanphier · File #197283D · 02-Jun-21

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
				TOTALS		50	40	10



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

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 $\pm 3\%$ nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Pole location(s) \oplus dimensions are relative to 0,0 reference point(s) \otimes



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	6.22
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

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

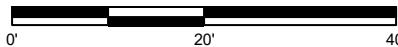
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

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SCALE IN FEET 1 : 20



Pole location(s) \oplus dimensions are relative to 0,0 reference point(s) \otimes

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



SCALE IN FEET 1 : 100

0' 100' 200'

ENGINEERED DESIGN By: Tanner Laphier · File #197283D · 02-Jun-21

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

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 $\pm 3\%$ nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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ILLUMINATION SUMMARY

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



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

SCALE IN FEET 1 : 100

0' 100' 200'

ENGINEERED DESIGN By: Tanner Laphier · File #197283D · 02-Jun-21

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

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

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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			



SCALE IN FEET 1 : 120

0' 120' 240'

Pole location(s) \oplus dimensions are relative to 0,0 reference point(s) \otimes

GRID SUMMARY	
Name:	Track Spill
Spacing:	30.0'
Height:	3.0' above grade
ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES	
Entire Grid	0.0008
Scan Average:	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

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

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

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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			



Pole location(s) \oplus dimensions are relative to 0,0 reference point(s) \otimes

GRID SUMMARY	
Name:	Track Spill
Spacing:	30.0'
Height:	3.0' above grade
ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
Entire Grid	
Scan Average:	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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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	



GRID SUMMARY	
Name:	Track Spill
Spacing:	30.0'
Height:	3.0' above grade
ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Entire Grid	
Scan Average:	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

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

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

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We Make It Happen.

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Wellesley High School Multi Purpose Field
Wellesley, MA

EQUIPMENT LAYOUT

INCLUDES:

- Football
- Track

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

Installation Requirements: Results assume $\pm 3\%$ 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	SIZE	GRADE ELEVATION	Luminaires		QTY/POLE
				MOUNTING HEIGHT	LUMINAIRE TYPE	
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)	380 (60)
Single Phase Voltage	208	220	240	277	347	380
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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