



Kaukauna New Middle School

Kaukauna, WI

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Kaukauna.W

LIGHTING SYSTEM

Structure/Fixture Summary						
Structure ID	Structure Height	Fixt. Attachment Ht.	Fixture Qty	Fixture Type	Design Load	Circuit
F1-F2	80'	80'	1	TLC-LED-550	0.53 kW	В
		80'	2	TLC-LED-1200	2.33 kW	A
		80'	4	TLC-LED-1500	5.59 kW	A
		16'	2	TLC-BT-575	1.15 kW	A
F3-F4	70'	70'	2	TLC-LED-1200	2.33 kW	A
		70'	4	TLC-LED-1500	5.59 kW	A
		16'	2	TLC-BT-575	1.15 kW	A
4			34		37.33 kW	

*Fixtures in this design have dimmed output values to meet design specific needs.

Circuit Summary			
Circuit	Description	Design Load	Fixture Qty
A	Multipurpose Field	36.27 kW	32
В	Bleacher Egress	1.05 kW	2

Fixture Type Summary										
Туре	Circuit	Source	Avg. Wattage	Avg. Lumens	L90	L80	L70	Quantity		
TLC-BT-575	A	LED 5700K - 75 CRI	575W	52,651	>120,000	>120,000	>120,000	8		
TLC-LED-1200	Α	LED 5700K - 75 CRI	1165W	152,324	>120,000	>120,000	>120,000	8		
TLC-LED-1500	Α	LED 5700K - 75 CRI	1397W	182,872	>120,000	>120,000	>120,000	16		
TLC-LED-550	В	LED 5700K - 75 CRI	527W	68,415	>120,000	>120,000	>120,000	2		

Single Fixture Amperage Draw Chart									
Driver Specifications Line Amperage Per Fixture (.90 min power factor) (max draw)									
(.90 min power factor) (max draw)									
Single Phase Voltage	208	220	240	277	347	380	480		
Single Filase Voltage	(60)	(60)	(60)	(60)	(60)	(60)	(60)		
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6		
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0		
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5		
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4		

^{*}Amp draw based on 100% fixture output, consult design specific datasheet for adjusted amperage draw chart

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric			Illumination Ave			Circuits	Fixture Qty
Grid Name	Calculation Wetric	Ave	Min	Max	Max/Min	Ave/Min	Circuits	Fixture Qty
Bleacher Egress	Horizontal Illuminance	8.56	3	11	4.33	3.31	В	2
Football	Horizontal Illuminance	32.96	29	41	1.42	1.15	A	32
Soccer	Horizontal Illuminance	33.28	29	43	1.50	1.16	A	32
Track	Horizontal Illuminance	13.46	4	25	6.30	3.40	Α	32

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

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

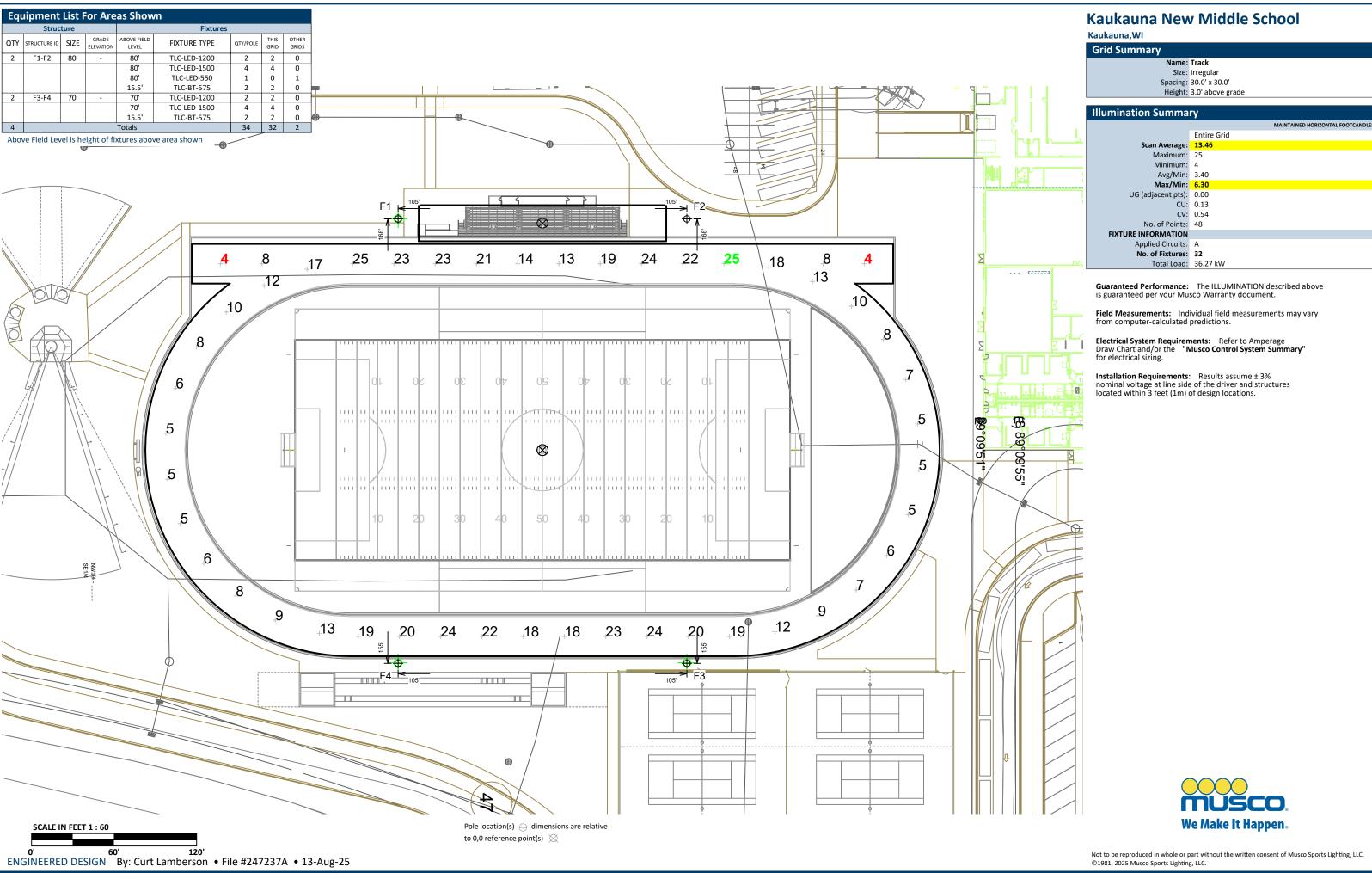
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

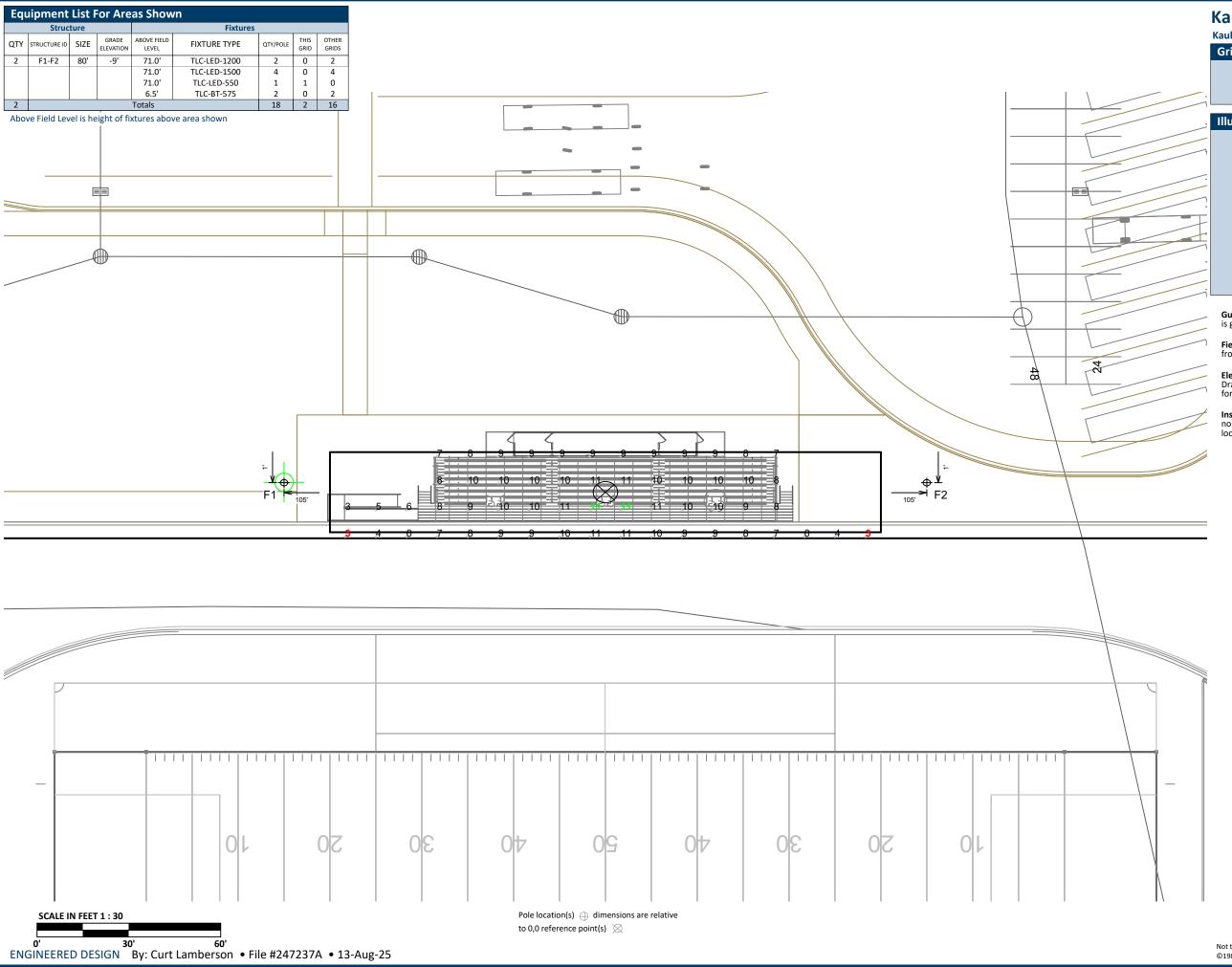
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Equipment List For Areas Shown Kaukauna New Middle School Fixtures Kaukauna, WI QTY STRUCTURE ID SIZE GRADE LEVELD LEVEL FIXTURE TYPE QTY/POLE **Grid Summary** F1-F2 80' TLC-LED-1200 TLC-LED-1500 Size: 360' x 160' TLC-LED-550 0 Spacing: 30.0' x 30.0' 15.5' TLC-BT-575 Height: 3.0' above grade F3-F4 70' TLC-LED-1200 70' TLC-LED-1500 4 4 0 **Illumination Summary** 15.5' TLC-BT-575 34 32 2 Entire Grid Above Field Level is height of fixtures above area shown Guaranteed Average: 30 Scan Average: 32.96 Maximum: 41 Minimum: 29 Avg/Min: 1.15 Guaranteed Max/Min: 2.5 Max/Min: 1.42 UG (adjacent pts): 1.25 Φ 7 CU: 0.47 CV: 0.10 No. of Points: 72 FIXTURE INFORMATION Applied Circuits: A ... (******* No. of Fixtures: 32 Total Load: 36.27 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. **Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing. _31 320 310 320 320 31 Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations. 30 29 30 29 30 31 30 30 30 89 32 30 30 32 31 29 31 31 31 31 31)'55' 32 37 36 33 36 37 32 32 32 40 37 32 37 40 40 32 40 ___F4_F 105' 4 We Make It Happen. SCALE IN FEET 1:60 Pole location(s) \oplus dimensions are relative to 0,0 reference point(s) Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC. ENGINEERED DESIGN By: Curt Lamberson • File #247237A • 13-Aug-25 ©1981, 2025 Musco Sports Lighting, LLC.

Equipment List For Areas Shown Kaukauna New Middle School Fixtures Kaukauna, WI QTY STRUCTURE ID SIZE GRADE LEVELD LEVEL FIXTURE TYPE QTY/POLE **Grid Summary** F1-F2 80' TLC-LED-1200 Name: Soccer TLC-LED-1500 Size: 360' x 205' TLC-LED-550 0 Spacing: 30.0' x 30.0' 15.5' TLC-BT-575 Height: 3.0' above grade F3-F4 70' TLC-LED-1200 70' TLC-LED-1500 4 4 0 **Illumination Summary** 15.5' TLC-BT-575 34 32 2 Entire Grid Above Field Level is height of fixtures above area shown Guaranteed Average: 30 Scan Average: 33.28 Maximum: 43 Minimum: 29 Avg/Min: 1.16 Guaranteed Max/Min: 2.5 Max/Min: 1.50 UG (adjacent pts): 1.38 Φ 7 CU: 0.55 CV: 0.11 No. of Points: 84 FIXTURE INFORMATION Applied Circuits: A ... (******* No. of Fixtures: 32 Total Load: 36.27 kW Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document. 32 32 32 31 35 34 32 34 34 35 Field Measurements: Individual field measurements may vary from computer-calculated predictions. Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" 33 32 33 34 32 32 34 33 32 36 33 36 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. 30 30 30 31 30 89 31 30 30 31 29 31 31 31 31)'55' 33 33 33 33 34 30 31 34. ... -⊈31. 39 37 32 32 37 39 39 39 34 34 39 39 _30 42 37 32 32 37__ 42 30 41 43 41 ___F4+ 105' 4 We Make It Happen. SCALE IN FEET 1:60 Pole location(s) \oplus dimensions are relative to 0,0 reference point(s) Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC. ENGINEERED DESIGN By: Curt Lamberson • File #247237A • 13-Aug-25 ©1981, 2025 Musco Sports Lighting, LLC.

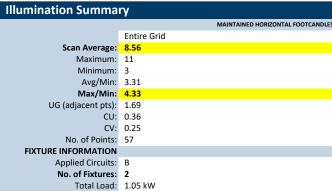




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Grid Summary Name: Bleacher Egress Size: 180' x 30' Spacing: 10.0' x 10.0' Height: 3.0' above grade



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

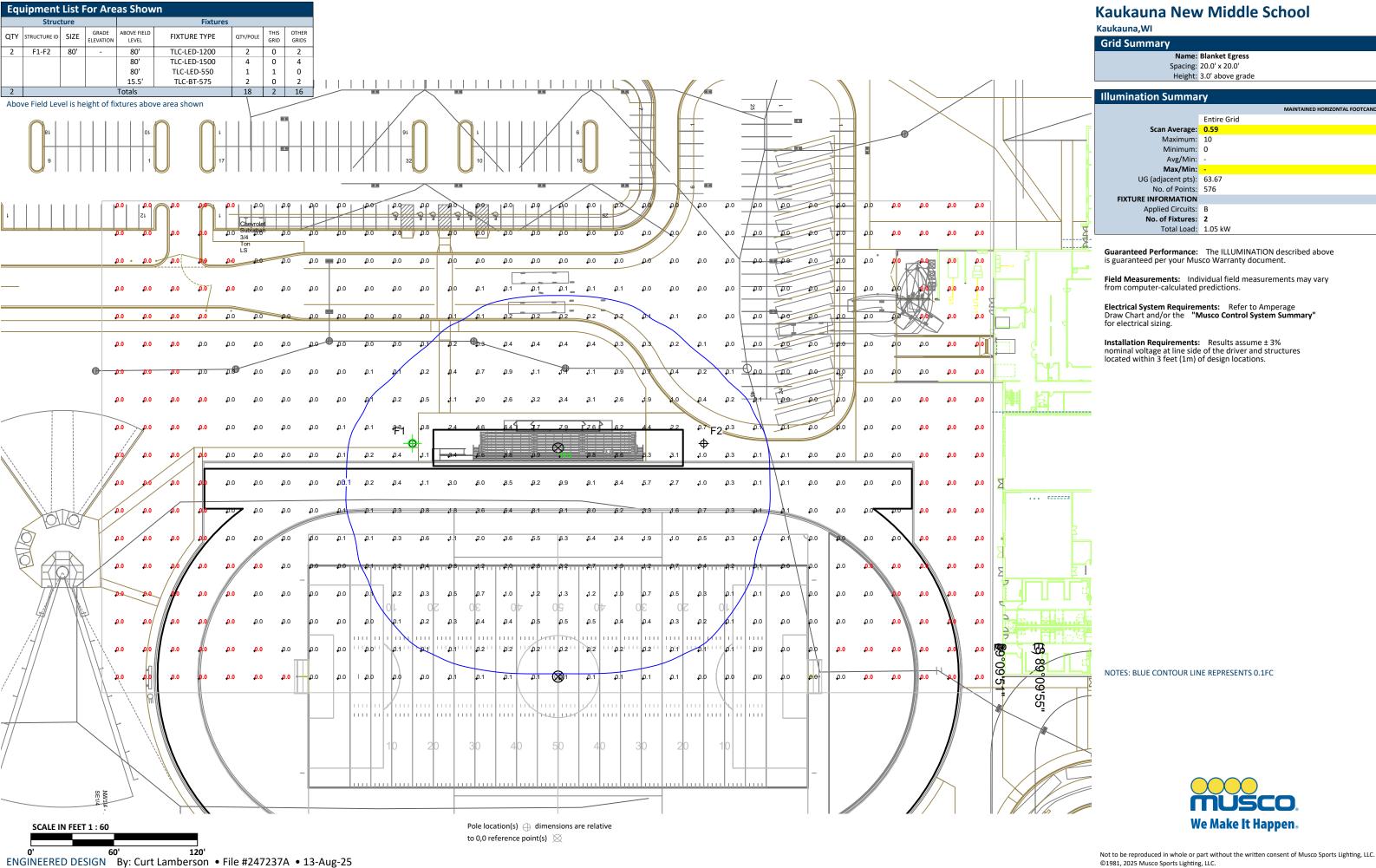
Field Measurements: Individual field measurements may vary from computer-calculated predictions.

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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0.0 0.0 0.0 F1 0.0 Φ 0.0 0.0 F3 0.0 0.0 DEED LINE 0.0 0.0 0.00.0 0.0 0.0 0.0 0.0 SCALE IN FEET 1:80 Pole location(s) \oplus dimensions are relative to 0,0 reference point(s) ENGINEERED DESIGN By: Curt Lamberson • File #247237A • 13-Aug-25

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Grid Summary

Name: Track Spill @ 5ft.(4) Spacing: 30.0' Height: 5.0' above grade

Illumination Summa	ry
	INITIAL HORIZONTAL FOOTCANDLE
	Entire Grid
Scan Average:	0.0127
Maximum:	0.04
Minimum:	0.00
No. of Points:	82
FIXTURE INFORMATION	
Applied Circuits:	A,B
No. of Fixtures:	34
Total Load:	37.33 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.

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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5193 6703 8445 8584 9556 4756 — 7252 6480 6794 6503 5332 4543 3323 F1 **3357** ▮ Φ 0 3581 3482 3615 3512 3327 2227 1752 920 1257 1459 1602 F3 1634 2964 DEED 727 EINE 2140 1778 16**99**69 5190 5984 9103 8654 8729 5836 4719 SCALE IN FEET 1:80 Pole location(s) \oplus dimensions are relative to 0,0 reference point(s) ENGINEERED DESIGN By: Curt Lamberson • File #247237A • 13-Aug-25

Kaukauna New Middle School

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Grid Summary

Name: Track Spill @ 5ft.(5)
Spacing: 30.0'
Height: 5.0' above grade

Illumination Summary Entire Grid Scan Average: 4037.7500 Maximum: 9555.83 Minimum: 464.30 No. of Points: 82 FIXTURE INFORMATION Applied Circuits: A,B No. of Fixtures: 34 Total Load: 37.33 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.

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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Kaukauna, WI **Equipment Layout** INCLUDES: · Bleacher Egress · Football F1 Track Soccer Football | I |360' x 160 360' x 205' ____F4_ Pole location(s) \bigoplus dimensions are relative to 0,0 reference point(s) ENGINEERED DESIGN By: Curt Lamberson • File #247237A • 13-Aug-25

Kaukauna New Middle School

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										
	Str	ucture			Fixtures					
QTY	STRUCTURE SIZE GLOBAL ELEVATION			ABOVE GLOBAL LEVEL	FIXTURE TYPE	QTY/POLE				
				80'	TLC-LED-1200	2				
2	F1-F2	80'		80'	TLC-LED-1500	4				
	L1-L7	80	-	80'	TLC-LED-550	1				
				15.5'	TLC-BT-575	2				
				70'	TLC-LED-1200	2				
2	F3-F4	70'	-	70'	TLC-LED-1500	4				
				15.5'	TLC-BT-575	2				
4	Totals									

Above Global Level is height of fixtures above design (0,0,0)

Single Fixture Amperage Draw Chart									
Driver Specifications Line Amperage Per Fixture									
(.90 min power factor)	actor) (max draw)								
Single Phase Voltage	208	220	240	277	347	380	480		
Siligie Filase Voltage	(60)	(60)	(60)	(60)	(60)	(60)	(60)		
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6		
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0		
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5		
TLC-LED-550	3.2	3.0	2.8	2.4	19	1.8	1 4		

*Amp draw based on 100% fixture output, consult design specific datasheet for adjusted amperage draw chart



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