Appendix A

Photometric Analysis

Fresno City College Softball

Fresno,CA

Lighting System

Pole / Fixture Summary										
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit				
A1-A2	60'	60'	3	TLC-LED-900	2.67 kW	Α				
		16'	1	TLC-BT-575	0.58 kW	Α				
		40'	1	TLC-RGBW	0.64 kW	В				
B1	60'	60'	2	TLC-LED-1200	2.34 kW	Α				
		60'	3	TLC-LED-900	2.67 kW	Α				
		16'	2	TLC-BT-575	1.15 kW	Α				
		50'	1	TLC-LED-600	0.58 kW	Α				
B2	60'	60'	1	TLC-LED-1200	1.17 kW	Α				
		60'	4	TLC-LED-900	3.56 kW	Α				
		16'	2	TLC-BT-575	1.15 kW	Α				
		50'	1	TLC-LED-900	0.89 kW	Α				
C1-C2	60'	60'	1	TLC-LED-1200	1.17 kW	Α				
		60'	2	TLC-LED-1500	2.86 kW	Α				
		60'	2	TLC-LED-900	1.78 kW	Α				
		16'	1	TLC-BT-575	0.58 kW	Α				
6			38		34.05 kW					

Circuit Summary								
Circuit	Description	Load	Fixture Qty					
Α	Softball	32.77 kW	36					
В	Egress	1.28 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	4			
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	5			
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000	18			
TLC-RGBW	LED 5700K - 75 CRI	640W	28,500	>120,000	>120,000	>120,000	2			
TLC-LED-600	LED 5700K - 75 CRI	580W	65,600	>120,000	>120,000	>120,000	1			
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	8			

Light Level Summary

Orld Name				Olympide	First Oto			
Grid Name	Calculation Metric	Ave	Min	Illumination Max	Max/Min	Ave/Min	Circuits	Fixture Qty
1st Base Bullpen	Horizontal	34.1	22	41	1.84	1.55	Α	36
3rd Base Bullpen	Horizontal	31.2	22	38	1.74	1.42	Α	36
Blanket Grid	Horizontal	5.22	0	70	0.00		A,B	38
Bleachers 1st Base	Horizontal	13	2	22	14.25	6.50	В	2
Bleachers	Horizontal	12.3	8	18	2.26	1.54	В	2
E Yale Ave Spill	ill Horizontal		0.07	3.26	47.85	17.20	A,B	38
E Yale Ave Spill	Max Candela (by Fixture)	4191	2213	6868	3.10	1.89	A,B	38
E Yale Ave Spill	Max Vertical Illuminance Metric	1.35	0.15	3.32	22.05	9.03	A,B	38
N College Ave Spill	Horizontal	0	0	0	0.00		A,B	38
N College Ave Spill	Max Candela (by Fixture)	1.99	0	11.8	0.00		A,B	38
N College Ave Spill	Max Vertical Illuminance Metric	0	0	0	0.00		A,B	38
Property Blanket Grid	Horizontal	0.05	0	3	0.00		A,B	38
Property Blanket Grid	Perpendicular	0.05	0	3	0.00		A,B	38
Softball (Infield)	Horizontal Illuminance	71.2	57	86	1.51	1.25	А	36
Softball (Outfield)	Horizontal Illuminance	54.2	42	64	1.53	1.29	Α	36
Spill	Horizontal	0	0	0.01	0.00		A,B	38
Spill	Max Candela (by Fixture)	185	0	896	0.00		A,B	38
Spill	Max Vertical Illuminance Metric	0.01	0	0.03	0.00		A,B	38

From Hometown to Professional











EQUIPMENT LIST FOR AREAS SHOWN LOCATION 40' TLC-RGBW TLC-LED-900 TLC-LED-900 60' 15.5' TLC-BT-575 TLC-LED-600 TLC-LED-1200 TLC-LED-1200 15.5' TLC-BT-575 TLC-LED-900 50' 60' TLC-LED-900 C1-C2 TLC-LED-1200 60' TLC-LED-900 15.5' TLC-BT-575 TLC-LED-1500 52 57 **5**1 53 .57 55 <u>.</u>51 56 58 52 61 58 65 67 64 .57 56 54 58 85 49 50 55 58 55 80 62 53 59 59 53 82 83 69 .57 60 SCALE IN FEET 1:40

ENGINEERED DESIGN By: Bryce Miles · File #211320E · 20-Jul-22

Fresno City College Softball

Fresno,CA

GRID SUMMARY Name: Softball Size: Irregular 190' / 220' / 190' Spacing: 20.0' x 20.0' Height: 3.0' above grade

ILLUMINATION SUMMARY								
MAINTAINED H	MAINTAINED HORIZONTAL FOOTCANDLES							
		Infield	Outfield					
Guaranteed A	verage:	70	50					
Scan A	verage:	71.22	54.19					
Ma	ximum:	86	64					
Mi	nimum:	57	42					
Av	g / Min:	1.25	1.29					
Guaranteed Ma	ax / Min:	2	2					
Ma	x / Min:	1.51	1.53					
UG (adjace	ent pts):	1.31	1.27					
	CU:	0.64						
No. of	Points:	25	68					
LUMINAIRE INF	ORMATION							
Applied No. of Lum	inaires: 3	A 36 32.77 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.

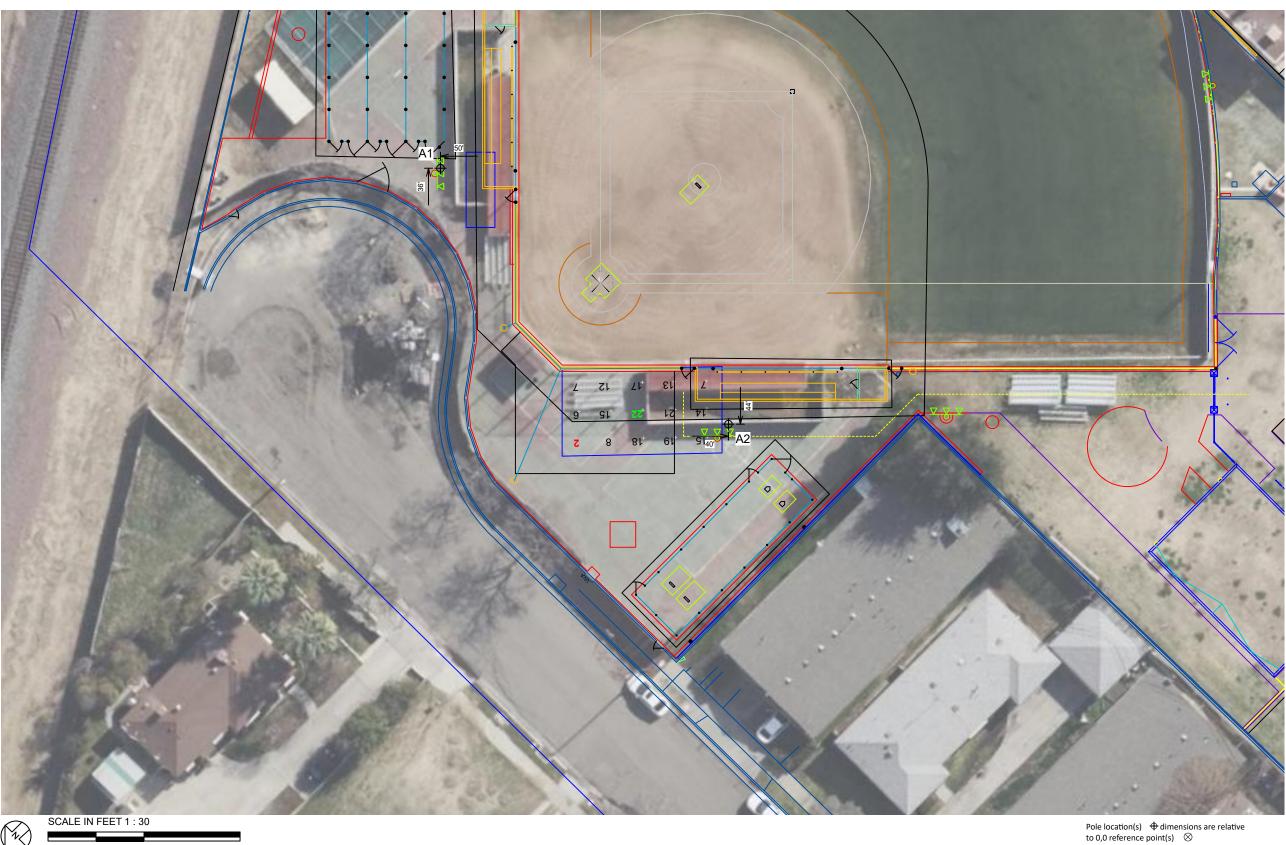


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to 0,0 reference point(s) \otimes

EQUIPMENT LIST FOR AREAS SHOWN										
Pole				Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	THIS GRID	OTHER GRIDS				
2	A1-A2	60'	-	15.5'	TLC-BT-575	1	0	1		
				40'	TLC-RGBW	1	1	0		
				60'	TLC-LED-900	3	0	3		
2	2 TOTALS						2	8		

ENGINEERED DESIGN By: Bryce Miles · File #211320E · 20-Jul-22



Fresno City College Softball

Fresno,CA

GRID SUMMARY Name: Bleachers 1st Base Size: Irregular 190' / 220' / 190' Spacing: 10.0' x 10.0'

ILLUMINATION SUMMARY Entire Grid Scan Average: Maximum: Minimum: 8.55 Avg / Min: Max / Min: 14.25 UG (adjacent pts): 5.51 CU: 0.34 No. of Points: 15 UMINAIRE INFORMATION Applied Circuits: B No. of Luminaires: 2 Total Load: 1.28 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.



EQUIPMENT LIST FOR AREAS SHOWN LOCATION 40' TLC-RGBW TLC-LED-900 TLC-LED-900 60' 60' 15.5' 50' TLC-BT-575 TLC-LED-600 TLC-LED-1200 TLC-LED-1200 15.5' TLC-BT-575 TLC-LED-900 50' 60' TLC-LED-900 C1-C2 60' 60' TLC-LED-1200 TLC-LED-900 15.5' 60' TLC-BT-575 TLC-LED-1500 SCALE IN FEET 1:30 Pole location(s) \oplus dimensions are relative to 0,0 reference point(s) \otimes

ENGINEERED DESIGN By: Bryce Miles · File #211320E · 20-Jul-22

Fresno City College Softball

Fresno,CA

GRID SUMMARY Name: 3rd Base Bullpen
Size: Irregular 190' / 220' / 190' Spacing: 10.0' x 10.0' Height: 3.0' above grade

ILLUMINATION SUMMARY Entire Grid Scan Average: Maximum: Minimum: 22 Avg / Min: 1.42 Max / Min: UG (adjacent pts): 1.45 CU: 0.01 No. of Points: 6 LUMINAIRE INFORMATION Applied Circuits: A No. of Luminaires: 36 Total Load: 32.77 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.



EQUIPMENT LIST FOR AREAS SHOWN LOCATION 40' TLC-RGBW TLC-LED-900 TLC-LED-900 60' 15.5' TLC-BT-575 TLC-LED-600 TLC-LED-1200 TLC-LED-1200 15.5' TLC-BT-575 TLC-LED-900 50' 60' TLC-LED-900 C1-C2 60' 60' TLC-LED-1200 TLC-LED-900 15.5' TLC-BT-575 TLC-LED-1500 <mark>41 41 31 </mark> SCALE IN FEET 1:30 to 0,0 reference point(s) \otimes

ENGINEERED DESIGN By: Bryce Miles · File #211320E · 20-Jul-22

Fresno City College Softball

Fresno,CA

GRID SUMMARY Name: 1st Base Bullpen
Size: Irregular 190' / 220' / 190' Spacing: 10.0' x 10.0' Height: 3.0' above grade

ILLUMINATION SUMMARY Scan Average: Maximum: Minimum: 22 Avg / Min: 1.53 Max / Min: UG (adjacent pts): 1.41 CU: 0.01 No. of Points: 6 JMINAIRE INFORMATION Applied Circuits: A No. of Luminaires: 36 Total Load: 32.77 kW

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

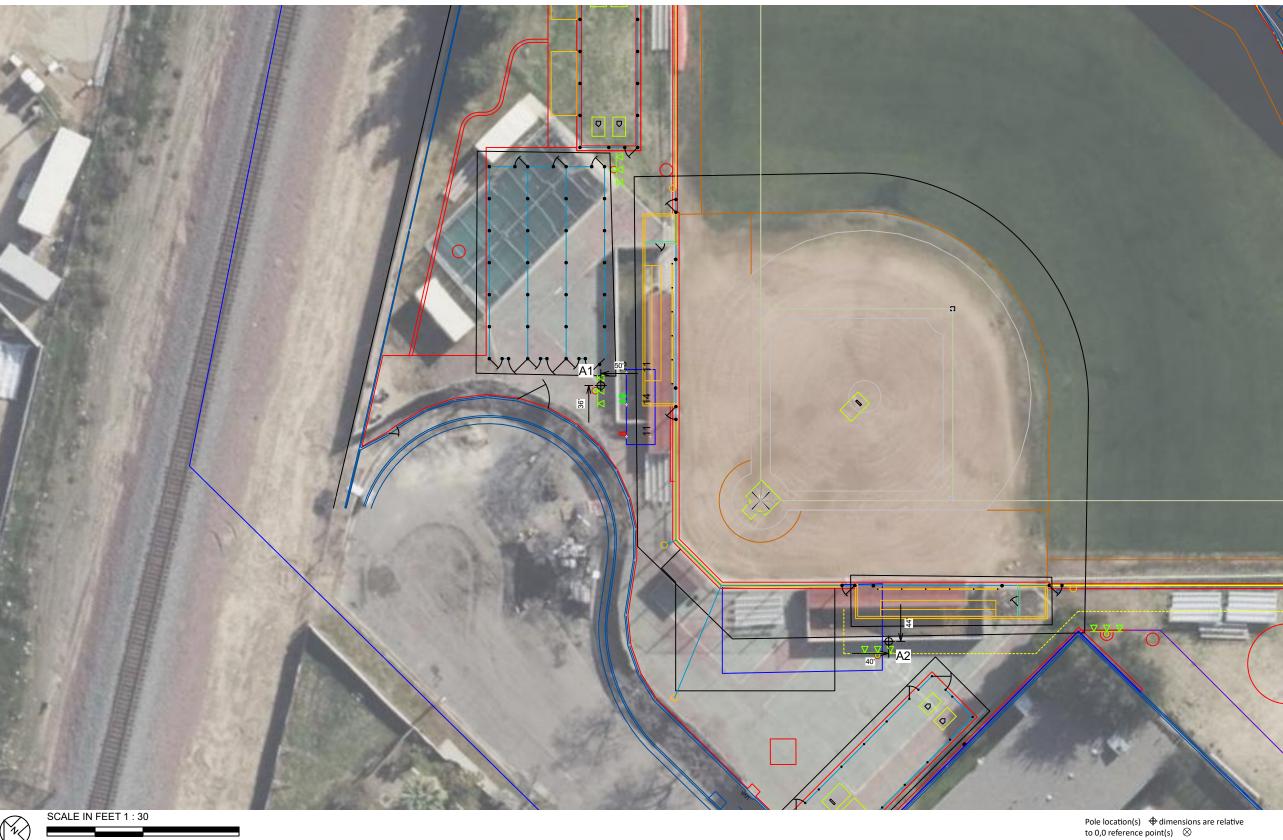
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.



EQUIPMENT LIST FOR AREAS SHOWN										
	P	ole		Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING LUMINAIRE QTY / THIS HEIGHT TYPE POLE GRID						
2	A1-A2	60'	-	15.5'	TLC-BT-575	1	0	1		
				40'	TLC-RGBW	1	1	0		
				60'	TLC-LED-900	3	0	3		
2	2 TOTALS							8		



Fresno City College Softball

Fresno,CA

GRID SUMMARY

Name:
Size: Irregular 190' / 220' / 190'
Spacing: 10.0' x 10.0'

ILLUMINATION SUMMARY MAINTAINED HORIZONTAL FOOTCANDLE Entire Grid Scan Average: Maximum: Minimum: Avg / Min: Max / Min: UG (adjacent pts): 2.26 CU: 0.09 No. of Points: LUMINAIRE INFORMATION Applied Circuits: B No. of Luminaires: 2 Total Load: 1.28 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.



EQUIPMENT LIST FOR AREAS SHOWN LOCATION 40' TLC-RGBW TLC-LED-900 TLC-LED-900 60' 15.5' 50' TLC-BT-575 TLC-LED-600 TLC-LED-1200 TLC-LED-1200 15.5' TLC-BT-575 TLC-LED-900 50' 60' TLC-LED-900 C1-C2 TLC-LED-1200 TLC-LED-900 60' 60' TLC-BT-575 15.5' TLC-LED-1500 SCALE IN FEET 1:30 to 0,0 reference point(s) \otimes

ENGINEERED DESIGN By: Bryce Miles · File #211320E · 20-Jul-22

Fresno City College Softball

Fresno,CA

GRID SUMMARY Name: Property Blanket Grid
Size: Irregular 190' / 220' / 190' Spacing: 5.0' x 5.0' Height: 8.0' above grade

ILLUMINATION SUMMARY Scan Average: Maximum: Minimum: Avg / Min: Max / Min: 81.42 UG (adjacent pts): CU: No. of Points: 638 LUMINAIRE INFORMATION Applied Circuits: A, B No. of Luminaires: 38 Total Load: 34.05 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.



EQUIPMENT LIST FOR AREAS SHOWN LOCATION 40' TLC-RGBW TLC-LED-900 TLC-LED-900 60' 15.5' 50' TLC-BT-575 TLC-LED-600 TLC-LED-1200 TLC-LED-1200 15.5' TLC-BT-575 TLC-LED-900 50' 60' TLC-LED-900 C1-C2 TLC-LED-1200 TLC-LED-900 60' 60' TLC-BT-575 15.5' TLC-LED-1500 SCALE IN FEET 1:30

ENGINEERED DESIGN By: Bryce Miles · File #211320E · 20-Jul-22

Fresno City College Softball

Fresno,CA

GRID SUMMARY Name: Property Blanket Grid
Size: Irregular 190' / 220' / 190' Spacing: 5.0' x 5.0' Height: 8.0' above grade

ILLUMINATION SUMMARY Scan Average: Maximum: Minimum: Avg / Min: Max / Min: 81.42 UG (adjacent pts): CU: No. of Points: 638 LUMINAIRE INFORMATION Applied Circuits: A, B No. of Luminaires: 38 Total Load: 34.05 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.



to 0,0 reference point(s) \otimes

ENGINEERED DESIGN By: Bryce Miles · File #211320E · 20-Jul-22

Fresno City College Softball Fresno,CA

GRID SUMMARY Name: Blanket Grid Spacing: 20.0' x 20.0' Height: 3.0' above grade

ILLUMINATION SUMMARY Entire Grid Scan Average: Maximum: Minimum: Avg / Min: Max / Min: UG (adjacent pts): 919.74 CU: 0.18 No. of Points: JMINAIRE INFORMATION Applied Circuits: A, B No. of Luminaires: 38 Total Load: 34.05 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.



to 0,0 reference point(s) \otimes

ILLUMINATION SUMMARY

ENGINEERED DESIGN By: Bryce Miles · File #211320E · 20-Jul-22

Pole location(s) \bigoplus dimensions are relative to 0,0 reference point(s) \bigotimes

Fresno City College Softball

Fresno,CA

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

ILLUMINATION SUMMARY Entire Grid Scan Average: 0.0019 Maximum: Minimum: 0.00 No. of Points: 28 LUMINAIRE INFORMATION Applied Circuits: A, B No. of Luminaires: 38 Total Load: 34.05 kW

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

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.



ENGINEERED DESIGN By: Bryce Miles · File #211320E · 20-Jul-22

Pole location(s) \bigoplus dimensions are relative to 0,0 reference point(s) \bigotimes

Fresno City College Softball

Fresno,CA

GRID SUMMARY

Name: Spill
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY MAX VERTICAL FOOTCANDLES Entire Grid 0.0060 Maximum: 0.03 Minimum: 0.00 No. of Points: 28 LUMINAIRE INFORMATION Applied Circuits: No. of Luminaires: 38 Total Load: 34.05 kW

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

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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Fresno City College Softball

Fresno,CA

GRID SUMMARY

Name: Spill
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

CANDELA (PER FIXTURE)

Entire Grid

185.3279

Maximum: 896.45

Minimum: 0.00

No. of Points: 28

LUMINAIRE INFORMATION

Applied Circuits: A, B

No. of Luminaires: 38

Total Load: 34.05 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.

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.



ENGINEERED DESIGN By: Bryce Miles · File #211320E · 20-Jul-22

Pole location(s) \bigoplus dimensions are relative to 0,0 reference point(s) \bigotimes

Fresno City College Softball

Fresno,CA

GRID SUMMARY Name: E Yale Ave Spill Spacing: 30.0' Height: 3.0' above grade

ILLUMINATION SUMMARY Entire Grid Scan Average: 1.2038 Maximum: Minimum: 0.07 No. of Points: LUMINAIRE INFORMATION Applied Circuits: A, B No. of Luminaires: 38 Total Load: 34.05 kW

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

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.



ENGINEERED DESIGN By: Bryce Miles · File #211320E · 20-Jul-22

Pole location(s) \bigoplus dimensions are relative to 0,0 reference point(s) \bigotimes

Fresno City College Softball

Fresno,CA

GRID SUMMARY Name: E Yale Ave Spill Spacing: 30.0' Height: 3.0' above grade

ILLUMINATION SUMMARY MAX VERTICAL FOOTCANDLES **Entire Grid** Scan Average: 1.3545 Maximum: Minimum: 0.15 No. of Points: LUMINAIRE INFORMATION Applied Circuits: A, B No. of Luminaires: 38 Total Load: 34.05 kW

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

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.



ENGINEERED DESIGN By: Bryce Miles · File #211320E · 20-Jul-22

Pole location(s) \bigoplus dimensions are relative to 0,0 reference point(s) \bigotimes

Fresno City College Softball

Fresno,CA

Rame: Spacing: 30.0' 3.0' above grade

ILLUMINATION SUMMARY

CANDELA (PER FIXTURE)

Scan Average:

Maximum:

Minimum:

No. of Points:

LUMINAIRE INFORMATION

Applied Circuits:

No. of Luminaires:

Total Load:

A, B

38

34.05 kW

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

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.



ENGINEERED DESIGN By: Bryce Miles · File #211320E · 20-Jul-22

Pole location(s) \bigoplus dimensions are relative to 0,0 reference point(s) \bigotimes

Fresno City College Softball

Fresno,CA

GRID SUMMARY Name: N College Ave Spill Spacing: 30.0' Height: 3.0' above grade

ILLUMINATION SUMMARY Entire Grid Scan Average: 0.0000 Maximum: Minimum: 0.00 No. of Points: 22 LUMINAIRE INFORMATION Applied Circuits: A, B No. of Luminaires: 38 Total Load: 34.05 kW

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

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.



ENGINEERED DESIGN By: Bryce Miles · File #211320E · 20-Jul-22

Pole location(s) \bigoplus dimensions are relative to 0,0 reference point(s) \bigotimes

Fresno City College Softball

Fresno,CA

GRID SUMMARY Name: N College Ave Spill Spacing: 30.0' Height: 3.0' above grade

ILLUMINATION SUMMARY MAX VERTICAL FOOTCANDLES **Entire Grid** Scan Average: 0.0000 Maximum: Minimum: 0.00 No. of Points: 22 LUMINAIRE INFORMATION Applied Circuits: A, B No. of Luminaires: 38 Total Load: 34.05 kW

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

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.



ENGINEERED DESIGN By: Bryce Miles · File #211320E · 20-Jul-22

Fresno City College Softball

Fresno,CA

Rame: N College Ave Spill
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

CANDELA (PER FIXTURE)

Entire Grid

1.9870

Maximum: 11.82

Minimum: 0.00

No. of Points: 22

LUMINAIRE INFORMATION

Applied Circuits: A, B

No. of Luminaires: 38

Total Load: 34.05 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.

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.



Fresno City College Softball

EQUIPMENT LAYOUT

INCLUDES: · Softball

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.

EQ	EQUIPMENT LIST FOR AREAS SHOWN									
	Po	ole		Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE				
2	A1-A2	60'	-	15.5'	TLC-BT-575	1				
				40'	TLC-RGBW	1				
				60'	TLC-LED-900	3				
1	B1	60'	-	60'	TLC-LED-900	3				
				15.5'	TLC-BT-575	2				
				50'	TLC-LED-600	1				
				60'	TLC-LED-1200	2				
1	B2	60'	-	60'	TLC-LED-1200	1				
				15.5'	TLC-BT-575	2				
				50'	TLC-LED-900	1				
				60'	TLC-LED-900	4				
2	C1-C2	60'	-	60'	TLC-LED-1200	1				
				60'	TLC-LED-900	2				
				15.5'	TLC-BT-575	1				
				60'	TLC-LED-1500	2				
6			TOTAL	S		38				

SINGLE LUMINAIRE AMPERAGE DRAW CHART										
Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)									
Single Phase Voltage	208	220	240	277 (60)	347 (60)	380	480 (60)			
TLC-LED-1500	8.5	8.1	7.4	6.4	5.1	4.7	3.7			
TLC-LED-1200	7.0	6.6	6.1	5.2	4.2	4.0	3.0			
TLC-LED-900	5.3	5.0	4.6	4.0	3.2	2.9	2.3			
TLC-RGBW	4.5	4.3	3.8	3.3	2.7	-	1.9			
TLC-LED-600	3.4	3.2	3.0	2.6	2.0	1.9	1.5			
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8	1.5			



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Pole location(s) \bigoplus dimensions are relative to 0,0 reference point(s) \bigotimes