W.R. Oliver Complex

Waukesha, WI

Lighting System

Pole / Fixture Summary									
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit			
A1-A2	60'	60'	1	TLC-LED-1200	1.17 kW	Α			
		60'	1	TLC-LED-900	0.89 kW	Α			
B1-B2	60'	60'	5	TLC-LED-1200	5.85 kW	Α			
		16'	1	TLC-BT-575	0.58 kW	Α			
C1	60'	60'	4	TLC-LED-1200	4.68 kW	Α			
		16'	2	TLC-BT-575	1.15 kW	Α			
5			22		22.80 kW				

Circuit Summ	ary		
Circuit	Description	Load	Fixture Qty
Α	Field 1	22.8 kW	22

Fixture Type Summary									
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity		
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	16		
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	4		
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000	2		

Light Level Summary

Calculation Grid Summary									
Grid Name	Calculation Metric		Illumination					Fixture Qty	
		Ave	Min	Max	Max/Min	Ave/Min	Circuits		
Field 1 (Infield)	Horizontal Illuminance	51.8	40	60	1.49	1.30	Α	22	
Field 1 (Outfield)	Horizontal Illuminance	32.2	20	42	2.15	1.61	Α	22	
Property Line	Horizontal	0.03	0	1.35	0.00		Α	22	
Property Line	Max Candela (by Fixture)	1486	0	57474	0.00	·	A	22	
Property Line	Max Vertical Illuminance Metric	0.08	0	3.22	0.00		Α	22	

From Hometown to Professional











EQUIPMENT LIST FOR AREAS SHOWN LOCATION TYPE TLC-LED-1200 60' TLC-LED-900 15.5' 60' TLC-BT-575 TLC-LED-1200 15.5' 60' B2 60' TLC-BT-575 TLC-LED-1200 TLC-BT-575 15.5' 60' TLC-LED-1200 TOTALS 22 22 0 → A2 B1 ► SCALE IN FEET 1:40

W.R. Oliver Complex

Waukesha, WI

GRID SUMMARY Name: Field 1 Size: 228'/228'/228' - basepath 60' Spacing: 20.0' x 20.0' Height: 3.0' above grade

ILLUMINATION SUMMARY										
MAINTAINED HORIZONTA	MAINTAINED HORIZONTAL FOOTCANDLES									
	Infield	Outfield								
Guaranteed Average:	50	30								
Scan Average:	51.82	32.20								
Maximum:	60	42								
Minimum:	40	20								
Avg / Min:	1.28	1.65								
Guaranteed Max / Min:	2	2.5								
Max / Min:	1.49	2.15								
UG (adjacent pts):	1.22	1.64								
CU:	0.71									
No. of Points:	25	96								
LUMINAIRE INFORMATION										
Applied Circuits: No. of Luminaires:	A 22									
Total Load:	22.8 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.

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

EQUIPMENT LIST FOR AREAS SHOWN	
Pole Luminaires	
1 B1 60' - 15.5' TLC-BT-575 1 1 0 60' TLC-LED-1200 5 5 0	
1 B2 60' - 15.5' TLC-BT-575 1 1 0 60' TLC-LED-1200 5 5 0	
1 C1 60' - 15.5' TLC-BT-575 2 2 0 60' TLC-LED-1200 4 4 0 5 TOTALS 22 22 0	
	AND THE RESIDENCE OF THE PARTY
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SCALE IN FEET 1 : 200	Pole location(s) \oplus dimensions are relative

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

W.R. Oliver Complex

Waukesha, WI

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

ILLUMINATION SUMMARY

HORIZONTAL FOOTCANDLES

Entire Grid
0.0319

Maximum: 1.35
Minimum: 0.00
No. of Points: 193

LUMINAIRE INFORMATION

Applied Circuits:
No. of Luminaires:
Total Load: 228 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.



EQUIPMENT LIST FOR AREAS SHOWN Pole Luminaires	
QTY LOCATION SIZE GRADE ELEVATION MOUNTING HEIGHT LUMINAIRE TYPE QTY THIS OTHER ORIDS 2 A1-A2 60' - 60' TLC-LED-1200 1 1 1 0	
1 B1 60' - 15.5' TLC-BT-575 1 1 0 60' TLC-LED-1200 5 5 0	
1 B2 60' - 15.5' TLC-BT-575 1 1 0 60' TLC-LED-1200 5 5 0	
1 C1 60' - 15.5' TLC-BT-575 2 2 0 0 5 TOTALS 22 22 0	
	AND THE RESIDENCE OF THE PARTY
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SCALE IN FEET 1 : 200	Pole location(s) \oplus dimensions are relative

ENGINEERED DESIGN By: Connor Ramstead · File #218430C · 22-Aug-22

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

W.R. Oliver Complex

Waukesha, WI

Rame:
Spacing:
Height: 3.0'
30.0'
30.0'
30.0'
30.0'
30.0'
30.0'
30.0'
30.0'
30.0'

ILLUMINATION SUMMARY

MAX VERTICAL FOOTCANDLES

Entire Grid

Scan Average: 0.0768

Maximum: 3.22

Minimum: 0.00

No. of Points: 193

LUMINAIRE INFORMATION

Applied Circuits: A

No. of Luminaires: 22

Total Load: 22.8 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.



EQUIPMENT LIST FOR AREAS SHOWN LOCATION 60' TLC-LED-900 15.5' 60' TLC-BT-575 TLC-LED-1200 15.5' 60' TLC-BT-575 TLC-LED-1200 TLC-BT-575 TLC-LED-1200 15.5' 60' B2 A2 SCALE IN FEET 1:200

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

W.R. Oliver Complex

Waukesha, WI

Rame: Spacing: 40.00' 30.0' 30.0' 30.0' above grade

ILLUMINATION SUMMARY

CANDELA (PER FIXTURE)

Scan Average: Entire Grid
1485.7643
Maximum: 57474.36
Minimum: 0.00
No. of Points: 193
LUMINAIRE INFORMATION

Applied Circuits: A
No. of Luminaires: 22
Total Load: 22.8 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.





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

W.R. Oliver Complex

Waukesha, WI

EQUIPMENT LAYOUT

INCLUDES:

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 MOUNTING LUMINAIRE ELEVATION HEIGHT TYPE					QTY / POLE			
2	A1-A2	60'	-	60'	TLC-LED-1200	1			
				60'	TLC-LED-900	1			
1	B1	60'	-	15.5'	TLC-BT-575	1			
				60'	TLC-LED-1200	5			
1	B2	60'	-	15.5'	TLC-BT-575	1			
				60'	TLC-LED-1200	5			
1	C1	60'	-	15.5'	TLC-BT-575	2			
				60'	TLC-LED-1200	4			
5 TOTALS									

SINGLE LUMINAIRE AMPERAGE DRAW CHART									
Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)								
Single Phase Voltage	208	220 (60)	240 (60)	277	347 (60)	380	480 (60)		
TLC-LED-1200	7.0	6.6	6.1	5.2	4.2	4.0	3.0		
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8	1.5		
TLC-LED-900	5.3	5.0	4.6	4.0	3.2	2.9	2.3		

