

Pole / Fixture Summary

Pole ID	Pole Height	Fixture Qty	Lamp Type	Circuit
A1	52'	11	1500W MH	A
A2	52'	11	1500W MH	A
B1	52'	13	1500W MH	A
B2	52'	13	1500W MH	A
4		48		

Calculation Grid Summary

Grid Name	Calculation Metric	Light Level				Uniformity		Circuits	Fixture Qty
		Type	Ave	Min	Max	Max/Min	Ave/Min		
MUGA Spill	Horizontal Illuminance	Maintained	0.38	0.23	0.66	2.92	1.66	A	48
MUGA Spill	Max Candela Metric	Maintained	45900	32359	62473	1.93	1.42	A	48
MUGA Spill	Max Vertical Illuminance Metric	Maintained	2.47	1.79	3.56	1.99	1.38	A	48
MUGA	Horizontal Illuminance	Maintained	37.7	14	58	4.21	2.73	A	48

Circuit Summary

Circuit	Description	Load	Fixture Qty
A	MUGA	76.8 kW	48



MY PROJECT

Name:	Revolutions Playfield
Location:	South Windsor, CT

From Hometown to Professional



We Make It Happen®

ENGINEERED DESIGN

By:	C.Carter
File # / Date:	SVC-473878A 22-Sep-22

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EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
2	A1-A2	52'	-	52'	1500W MH	11	11	0	
2	B1-B2	52'	-	52'	1500W MH	13	13	0	
4	TOTALS					48	48	0	



MY PROJECT	
Name:	Revolutions Playfield
Location:	South Windsor, CT

GRID SUMMARY	
Name:	MUGA
Size:	358' x 270'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

MAINTAINED ILLUMINATION	
SUMMARY	HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	37.69
Maximum:	58
Minimum:	14
Avg / Min:	2.73
Max / Min:	4.21
UG (adjacent pts):	1.70
CU:	0.51
No. of Points:	108
LUMINAIRE INFORMATION	
Luminaire Type:	SC-2 /
Design Usage Hours:	3,000 hours
Design Lumens:	
Avg Tilt Factor:	0.818
Add'l Non-Rec LLF:	0.970
Recoverable LLF:	1.000
Total LLF:	0.794
No. of Luminaires:	48
Avg KW:	76.8 (76.8 max)

Field Measurements: Illumination measured in accordance with the IESNA RP-6-15 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

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

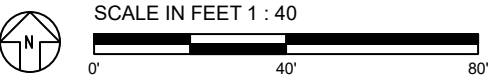
Installation Requirements: Results assume +/- 3% nominal voltage at line side of the ballast and structures located within 3 feet (1m) of design locations.

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NOTES: Light Levels not guaranteed



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	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	52'	-	52'	1500W MH	11	11	0
2	B1-B2	52'	-	52'	1500W MH	13	13	0
4	TOTALS					48	48	0



MY PROJECT	
Name:	Revolutions Playfield
Location:	South Windsor, CT

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

MAINTAINED ILLUMINATION	
SUMMARY	HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	0.3773
Maximum:	0.66
Minimum:	0.23
No. of Points:	74
LUMINAIRE INFORMATION	
Luminaire Type:	SC-2 /
Design Usage Hours:	3,000 hours
Design Lumens:	
Avg Tilt Factor:	0.818
Add'l Non-Rec LLF:	0.970
Recoverable LLF:	1.000
Total LLF:	0.794
No. of Luminaires:	48
Avg KW:	76.8 (76.8 max)

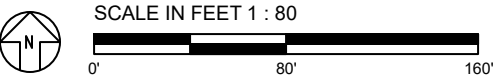
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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	52'	-	52'	1500W MH	11	11	0
2	B1-B2	52'	-	52'	1500W MH	13	13	0
4	TOTALS					48	48	0



MY PROJECT	
Name:	Revolutions Playfield
Location:	South Windsor, CT

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

MAINTAINED ILLUMINATION	
SUMMARY	MAX VERTICAL FOOTCANDLES
Entire Grid	
Scan Average:	2.4702
Maximum:	3.56
Minimum:	1.79
No. of Points:	74
LUMINAIRE INFORMATION	
Luminaire Type:	SC-2 /
Design Usage Hours:	3,000 hours
Design Lumens:	
Avg Tilt Factor:	0.818
Add'l Non-Rec LLF:	0.970
Recoverable LLF:	1.000
Total LLF:	0.794
No. of Luminaires:	48
Avg KW:	76.8 (76.8 max)

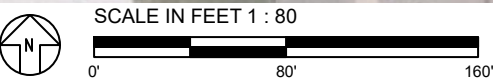
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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
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2	A1-A2	52'	-	52'	1500W MH	11	11	0
2	B1-B2	52'	-	52'	1500W MH	13	13	0
4	TOTALS					48	48	0



MY PROJECT

Name: Revolutions Playfield
Location: South Windsor, CT

GRID SUMMARY

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

MAINTAINED ILLUMINATION

SUMMARY	CANDELA (PER FIXTURE)
Entire Grid	
Scan Average:	45900.4336
Maximum:	62473.24
Minimum:	32359.02
No. of Points:	74
LUMINAIRE INFORMATION	
Luminaire Type:	SC-2 /
Design Usage Hours:	3,000 hours
Design Lumens:	
Avg Tilt Factor:	0.818
Add'l Non-Rec LLF:	0.970
Recoverable LLF:	1.000
Total LLF:	0.794
No. of Luminaires:	48
Avg KW:	76.8 (76.8 max)

Field Measurements: Illumination measured in accordance with the IESNA RP-6-15 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

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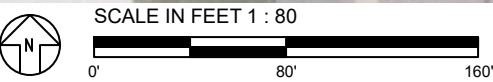
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ILLUMINATION SUMMARY



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MY PROJECT

Name: Revolutions Playfield
Location: South Windsor, CT

EQUIPMENT LAYOUT

INCLUDES:
· MUGA

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

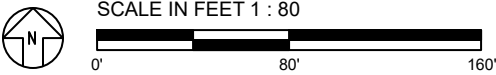
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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE
2	A1-A2	52'	-	52'	1500W MH	11
2	B1-B2	52'	-	52'	1500W MH	13
4	TOTALS					48

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)	480 (60)
1500 watt Metal Halide	8.1	7.7	7.1	6.1	4.8	4.4	3.5



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