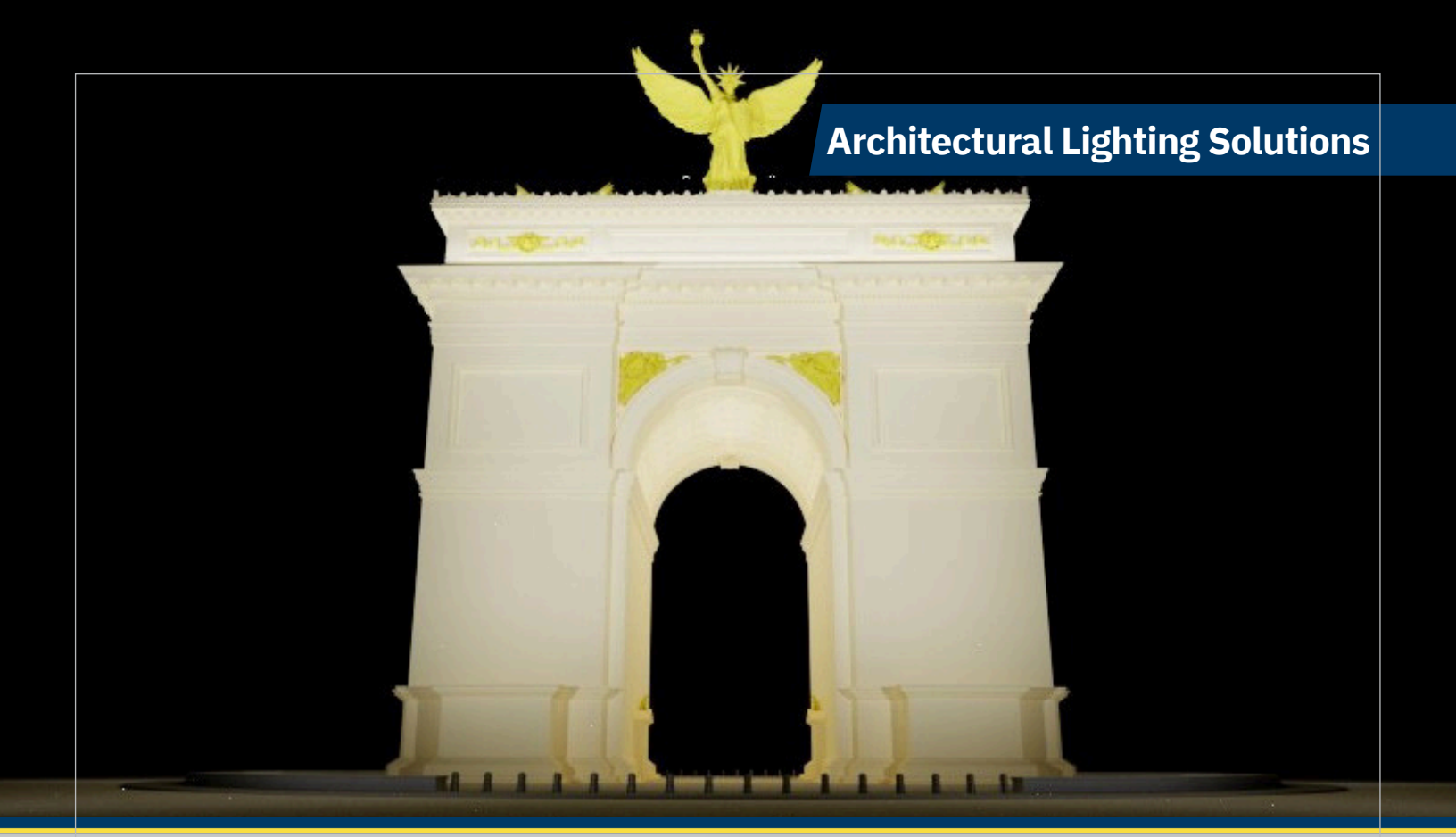


Architectural Lighting Solutions

Triumphal Arch at Memorial Circle

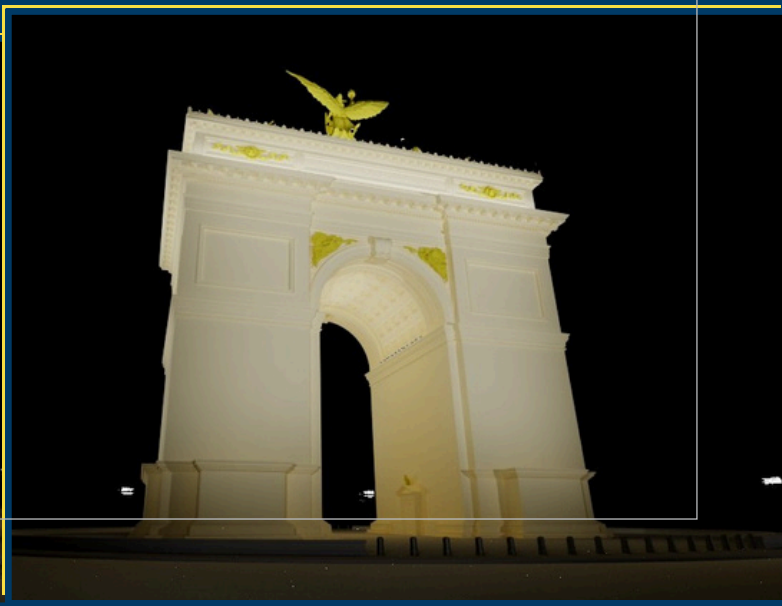
Arlington, VA

System Facts

- **System:** Total Light Control – TLC for LED™
- **Number of Poles**: 6
- **Number of Fixtures:** 48
- **Color Tempature:** 4000K
- **CRI:** 70

Musco's lighting design transforms the Triumphal Arch into a compelling nighttime landmark, highlighting its architectural beauty, rooftop sculptures, and iconic form. By utilizing lighting that complements the appearance of surrounding Washington, D.C. monuments and memorials, the design creates a seamless integration with the city's historic nighttime landscape. The result is an elegant, visually striking presence that balances aesthetics, safety, and long-term performance.





Learn more at:
www.musco.com/solution/architectural/

Musco Lighting Plan Summary

Project Overview

The proposed lighting design for the Triumphal Arch is intended to create a timeless nighttime presence that highlights the monument's architectural significance while maintaining visual comfort for motorists, visitors, and the surrounding environment. The design focuses on emphasizing the arch's defining architectural features, enhancing depth and dimension, and delivering a balanced, uniform visual appearance from all viewing angles.

Pole-Mounted Lighting System

The primary lighting system consists of:

- **(6) Musco 30-foot LSS poles**
- **(8) TLC-LED-400NB luminaires per pole**
- **4000K white light source**

The pole locations are positioned approximately **250 feet from the center of the monument** to provide optimal beam control and visual modeling. The 30-foot mounting height allows light to be projected above normal traffic flow, helping reduce visibility of the lighting equipment, minimizing driver glare, and limiting obstruction from passing vehicles, including large trucks.

Pole locations **T2, T3, T5, and T6** have been strategically placed so the monument itself naturally screens the structures from key approach views, particularly from the Arlington Memorial Bridge and Lincoln Memorial approaches to the roundabout.

Monument Illumination Strategy

The lighting design utilizes carefully aimed narrow-beam luminaires to illuminate both the monument facade and rooftop statuary.

To avoid the appearance of a flat or overlit surface, illumination levels were intentionally reduced near the corners of the structure. This contrast enhances shadow definition and architectural modeling, allowing the monument's depth, shape, and detailing to remain visually prominent after dark.

The result is a balanced presentation that highlights key architectural elements without overwhelming the natural character of the monument.

FAA Considerations

Lighting levels have been designed to maintain approximately **15 footcandles at elevations of 150 feet and higher**, eliminating the anticipated need for FAA aircraft warning lights.

Below the 150-foot elevation, light levels are intentionally tapered to create a smooth transition down the monument, reducing unnecessary brightness while maintaining the desired nighttime appearance.

Architectural Accent Lighting

To address potential shadowing on the crown of the arch and beneath the interior span, a dedicated linear lighting system has been incorporated into the design.

Crown Illumination

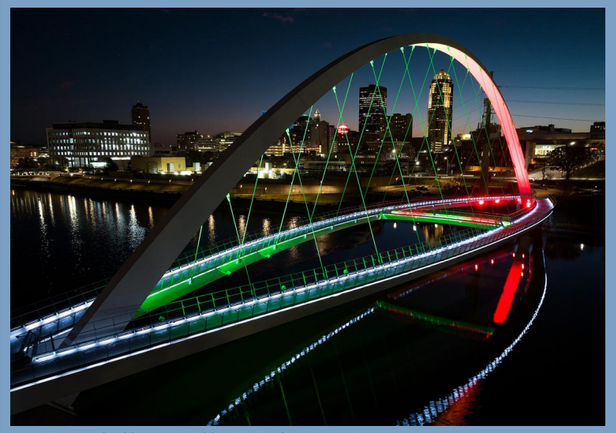
- **(116) Insight Argo pro Linear Fixtures**
- **4-Foot Lenghts**
- **4000K white light source**

These fixtures are integrated along the crown of the monument to provide uniform illumination and eliminate dark areas that could obscure architectural details.

Interior Arch Illumination

- **(22) Insight Argo pro Linear Fixtures**
- **11 fixtures per side**
- **4000K white light source**

The interior fixtures provide indirect illumination of the arch's interior surfaces while highlighting the geometry of the structure's underside. This approach enhances visibility of the architectural features and contributes to a more inviting nighttime appearance.



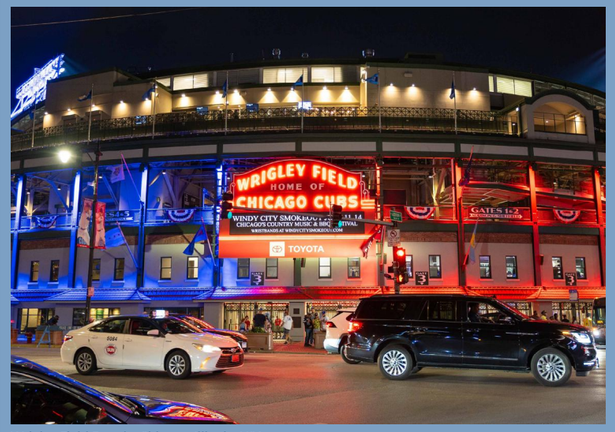
Iowa Women of Achievement Bridge, Des Moines, Iowa, USA



Greater Des Moines Botanical Garden, Des Moines, Iowa, USA



American Table Restaurant, Oskaloosa, Iowa, USA



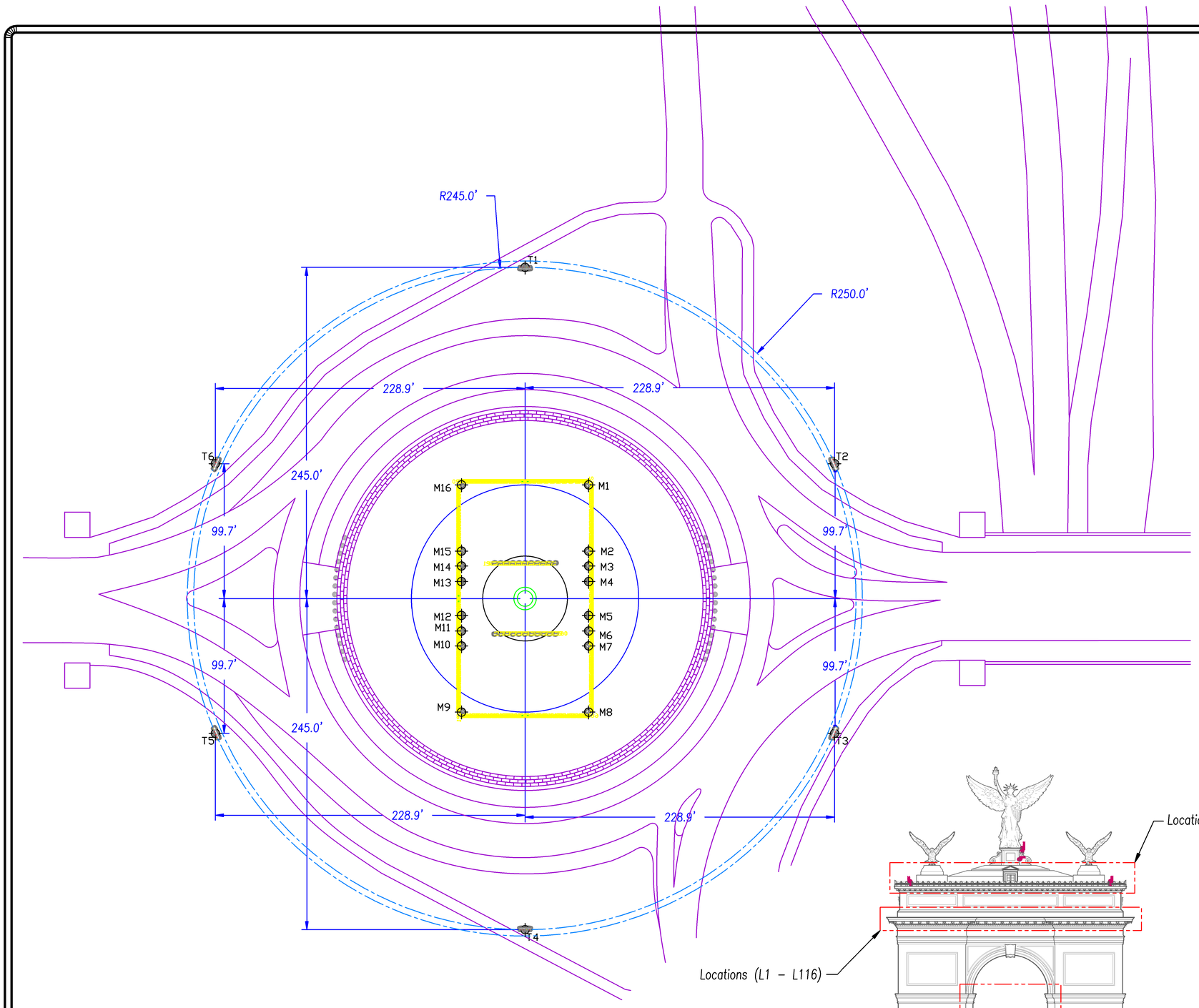
Wrigley Field Facade, Chicago, Illinois, USA

Triumphal Arch

Washington,DC

Sales Representative: Corey Holland · Designed By: · Design No.: Triumphal Arch Design C · August 07, 2026

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Triumphal Arch – Luminaire Locations

Lighting Equipment

APPROXIMATE LUX LEVEL:	N/A				LAMP TYPE:	TLC–LED–400NB / INSIGHT LINEAR				
MAX. TO AVER. RATIO TO EXCEED:	N/A				FINISH:	Galv. / Painted				
POLE					LUMINAIRES				ELECTRICAL LOAD LED LUMINAIRE	
FIXTURE QUANTITY	MOUNTING LOCATION	FIXTURE TYPE	MOUNTING HEIGHT	MOUNT SIZE	ELEV.	FIXTURE SYMBOL	FIXTURES PER LOCATION /UNIT	FIXTURES PER LOCATION TOTAL	WATTS CONSUMPTION (W) PER LUMINAIRE	WATTS CONSUMPTION (W) PER TOTAL
1	M1	TLC–LED–400NB	170.0'	8.0"	178.0'	⊕	1	1	400	400
1	M2	TLC–LED–400NB	170.0'	8.0"	178.0'	⊕	1	1	400	400
1	M3	TLC–LED–400NB	170.0'	8.0"	178.0'	⊕	1	1	400	400
1	M4	TLC–LED–400NB	170.0'	8.0"	178.0'	⊕	1	1	400	400
1	M5	TLC–LED–400NB	170.0'	8.0"	178.0'	⊕	1	1	400	400
1	M6	TLC–LED–400NB	170.0'	8.0"	178.0'	⊕	1	1	400	400
1	M7	TLC–LED–400NB	170.0'	8.0"	178.0'	⊕	1	1	400	400
1	M8	TLC–LED–400NB	170.0'	8.0"	178.0'	⊕	1	1	400	400
1	M9	TLC–LED–400NB	170.0'	8.0"	178.0'	⊕	1	1	400	400
1	M10	TLC–LED–400NB	170.0'	8.0"	178.0'	⊕	1	1	400	400
1	M11	TLC–LED–400NB	170.0'	8.0"	178.0'	⊕	1	1	400	400
1	M12	TLC–LED–400NB	170.0'	8.0"	178.0'	⊕	1	1	400	400
1	M13	TLC–LED–400NB	170.0'	8.0"	178.0'	⊕	1	1	400	400
1	M14	TLC–LED–400NB	170.0'	8.0"	178.0'	⊕	1	1	400	400
1	M15	TLC–LED–400NB	170.0'	8.0"	178.0'	⊕	1	1	400	400
1	M16	TLC–LED–400NB	170.0'	8.0"	178.0'	⊕	1	1	400	400
116	L1–L116	INSIGHT LINEAR	146.0'	0.5"	146.5'	⊕	1	116	72	8352
22	L117–L138	INSIGHT LINEAR	89.0'	0.5"	89.5'	⊕	1	22	72	1584
8–TLC LED–400NB	T1	TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1	8	400	3200
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
8–TLC LED–400NB	T2	TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1	8	400	3200
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
8–TLC LED–400NB	T3	TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1	8	400	3200
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
8–TLC LED–400NB	T4	TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1	8	400	3200
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
8–TLC LED–400NB	T5	TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1	8	400	3200
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
8–TLC LED–400NB	T6	TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1	8	400	3200
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
		TLC–LED–400NB	30.0'	30.0'	0.0'	⊕	1		400	
202	← TOTALS →							202		35,536

Triumphal Arch
Washington, DC
Musco Light Pole Layout

CORPORATE OFFICE:
P.O. Box 808
211 2nd Avenue West
Oskaloosa, Iowa 52577
+1–800–825–6020
+1–641–673–0411

Musco Lighting

REVISIONS:
DATE: 8/01/26 BY: R.L. Moved locations M1 thru M16 to use 8ft tall mount

JOB NUMBER: 257490
DRAWN BY: JAC
CHECK BY:
REPRESENTATIVE: C.Holland
SCALE: 1:40
DATE: 08/05/26
DRAWING NUMBER: 257490L1
1 OF 1 SHEETS

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USE RULE PROJECTION ANSI/IES RP-8-18

Triumphal Arch
Washington,DC

LIGHTING SYSTEM

Structure/Fixture Summary

Structure ID	Structure Height	Fixt. Attachment Ht.	Fixture Qty	Fixture Type	Load	Circuit
M1-M3		178'	1	TLC-LED-400NB	0.40 kW	A
M4-M5		178'	1	TLC-LED-400NB	0.40 kW	A
M6-M11		178'	1	TLC-LED-400NB	0.40 kW	A
M12-M13		178'	1	TLC-LED-400NB	0.40 kW	A
M14-M16		178'	1	TLC-LED-400NB	0.40 kW	A
T1	30'	30'	3	TLC-LED-400NB	1.20 kW	A
		30'	5	TLC-LED-400NB	2.00 kW	A
T2-T3	30'	30'	3	TLC-LED-400NB	1.20 kW	A
		30'	5	TLC-LED-400NB	2.00 kW	A
T4	30'	30'	3	TLC-LED-400NB	1.20 kW	A
		30'	5	TLC-LED-400NB	2.00 kW	A
T5-T6	30'	30'	3	TLC-LED-400NB	1.20 kW	A
		30'	5	TLC-LED-400NB	2.00 kW	A
L1 - L116		146'	116	INSIGHT - ARGO PRO LINEAR	8.35 kW	A
L117 - L138		89'	22	INSIGHT - ARGO PRO LINEAR	1.61 kW	A
22			202		35.54 kW	

Circuit Summary

Circuit	Description	Load	Fixture Qty
A		33.70 kW	202

Fixture Type Summary

Type	Circuit	Source	Wattage	Lumens	L90	L80	L70	Quantity
INSIGHT - ARGO PRO LINEAR	A		72W	5,064	--	--	--	116
INSIGHT - ARGO PRO LINEAR	A		72W	5,913	--	--	--	22
TLC-LED-400NB	A	Cree XM-LM Light Emitting Diode (LED);	400W	42,920	--	--	--	4
TLC-LED-400NB	A	Cree XM-LM Light Emitting Diode (LED);	400W	42,920	--	--	--	8
TLC-LED-400NB	A	Cree XM-LM Light Emitting Diode (LED);	400W	42,920	--	--	--	4
TLC-LED-400NB	A	Cree XM-LM Light Emitting Diode (LED);	400W	42,920	--	--	--	26
TLC-LED-400NB	A	Cree XM-LM Light Emitting Diode (LED);	400W	42,920	--	--	--	22

Single Fixture Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Fixture (max draw)						
Single Phase Voltage	120	208	240	277	347	380	480
TLC-LED-400NB	4.13A	2.38A	2.07A	1.79A	-----	-----	-----

Light Level Summary

Calculation Grid Summary

Grid Name	Calculation Metric	Illumination Ave					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Arch - Arlington Side	Perpendicular	11.97	2	18	10.08	6.79	A	202
Arch - Lincoln Side	Perpendicular	11.97	2	18	10.08	6.79	A	202
Arch - North Side	Perpendicular	9.68	1	20	17.94	8.51	A	202
Arch - South Side	Perpendicular	9.68	1	20	17.94	8.51	A	202
Arch Interior Wall - North Side	Perpendicular	5.57	2	9	4.21	2.62	A	202
Arch Interior Wall - South Side	Perpendicular	5.77	2	9	4.21	2.62	A	202
Statue - Center	Perpendicular	23.42	11	39	3.53	2.13	A	202
Statue - North	Perpendicular	23.45	20	25	1.28	1.18	A	202
Statue - South	Perpendicular	22.49	19	24	1.29	1.20	A	202

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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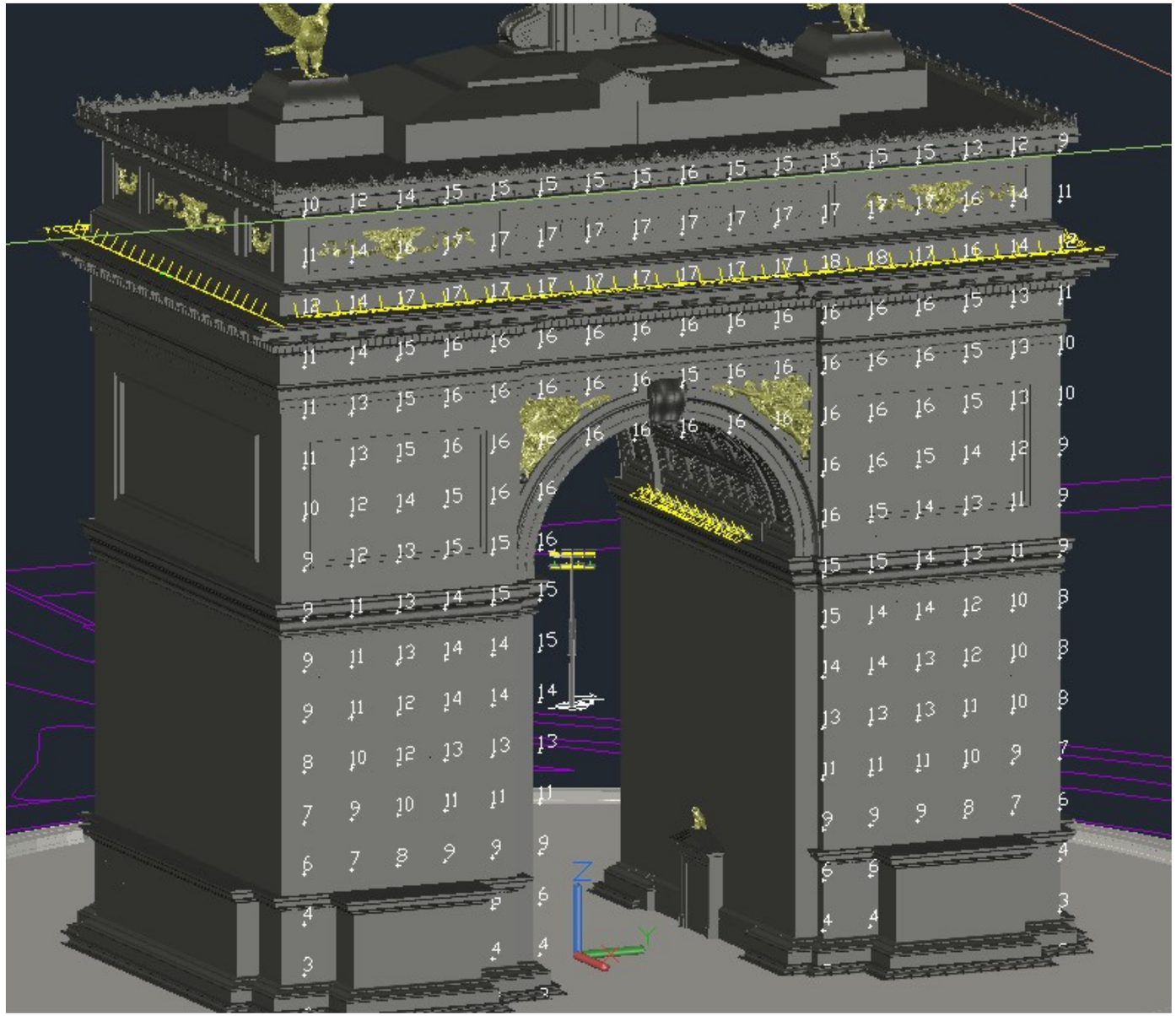
ENGINEERED DESIGN By: • File #Triumphal Arch Design C • 07-Aug-26

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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
12	M1-M3 M6-M11 M14-M16		170'	178'	TLC-LED-400NB	1	1	0
4	M4-M5 M12-M13		170'	178'	TLC-LED-400NB	1	1	0
2	T1 T4	30'	-	30'	TLC-LED-400NB	3	3	0
				30'	TLC-LED-400NB	5	5	0
4	T2-T3 T5-T6	30'	-	30'	TLC-LED-400NB	5	5	0
				30'	TLC-LED-400NB	3	3	0
	Non-Pole		-	146.3'	INSIGHT - ARGO PRO LINEAR		116	0
				89.5'	INSIGHT - ARGO PRO LINEAR		22	0
22	Totals					64	202	0

Above Field Level is height of fixtures above area shown



Triumphal Arch

Washington,DC

Grid Summary

Name:	Arch - Lincoln Side
Spacing:	10.0' x 10.0'

Illumination Summary

MAINTAINED VERTICAL FOOTCANDLES: 0° Tilt

	Entire Grid
Scan Average:	11.97
Maximum:	18
Minimum:	2
Avg/Min:	6.79
Max/Min:	10.08
UG (adjacent pts):	1.62
CU:	0.13
No. of Points:	234
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	202
Total Load:	35.54 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.

SCALE IN FEET 1 : 30

0' 30' 60'

ENGINEERED DESIGN By: • File #Triumphal Arch Design C • 07-Aug-26

0° 90° 270° 180°
METER ORIENTATION

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

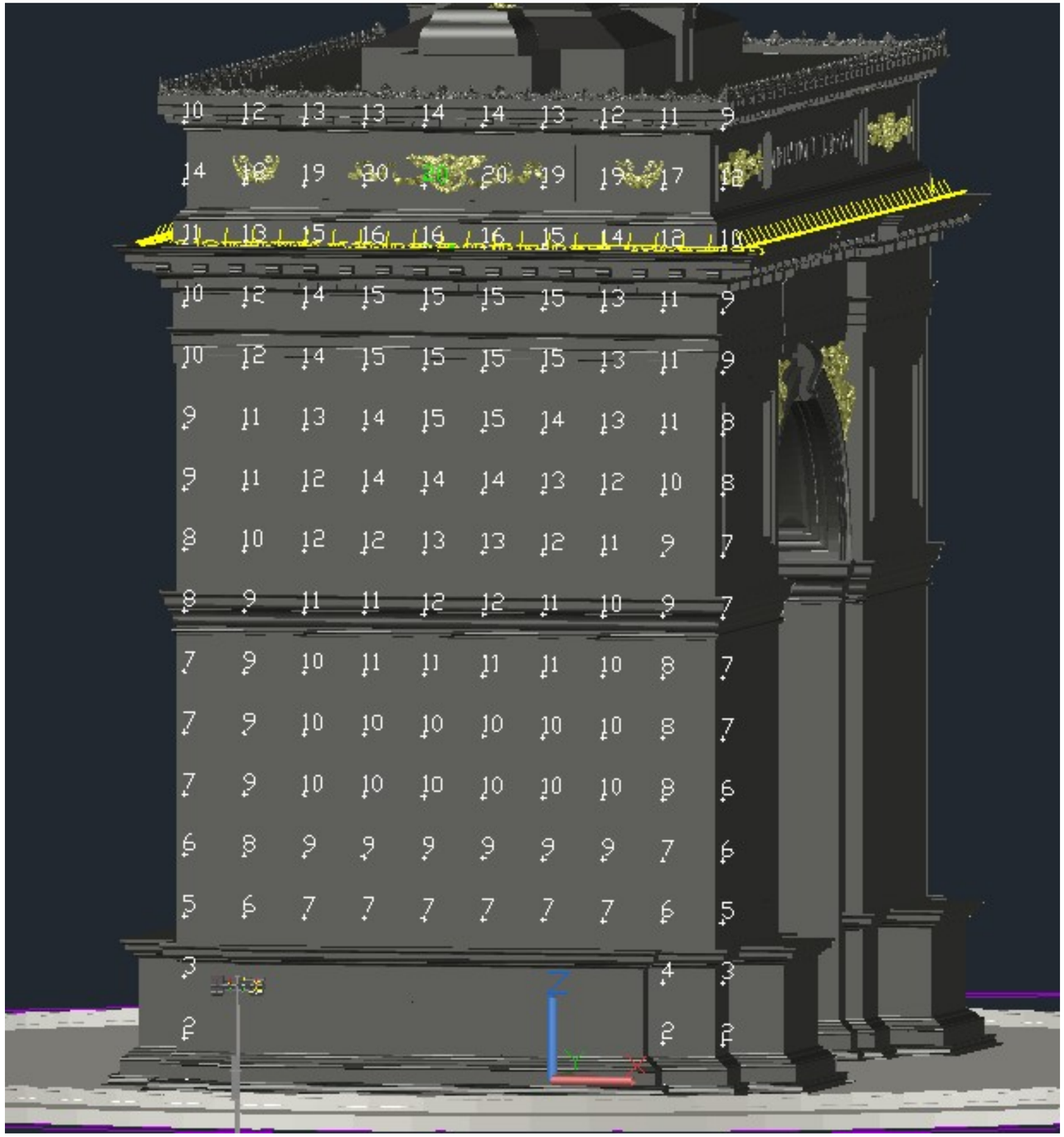
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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
12	M1-M3 M6-M11 M14-M16		170'	178'	TLC-LED-400NB	1	1	0
4	M4-M5 M12-M13		170'	178'	TLC-LED-400NB	1	1	0
2	T1 T4	30'	-	30'	TLC-LED-400NB	3	3	0
				30'	TLC-LED-400NB	5	5	0
4	T2-T3 T5-T6	30'	-	30'	TLC-LED-400NB	5	5	0
				30'	TLC-LED-400NB	3	3	0
	Non-Pole		-	146.3'	INSIGHT - ARGO PRO LINEAR		116	0
				89.5'	INSIGHT - ARGO PRO LINEAR		22	0
22	Totals					64	202	0

Above Field Level is height of fixtures above area shown



Triumphal Arch

Washington,DC

Grid Summary

Name:	Arch - South Side
Spacing:	10.0' x 10.0'

Illumination Summary

MAINTAINED VERTICAL FOOTCANDLES: 0" Tilt

	Entire Grid
Scan Average:	9.68
Maximum:	20
Minimum:	1
Avg/Min:	8.50
Max/Min:	17.96
UG (adjacent pts):	1.72
CU:	0.08
No. of Points:	170
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	202
Total Load:	35.54 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.

SCALE IN FEET 1 : 30

0' 30' 60'

ENGINEERED DESIGN By: • File #Triumphal Arch Design C • 07-Aug-26

0° 90° 270° 180° METER ORIENTATION

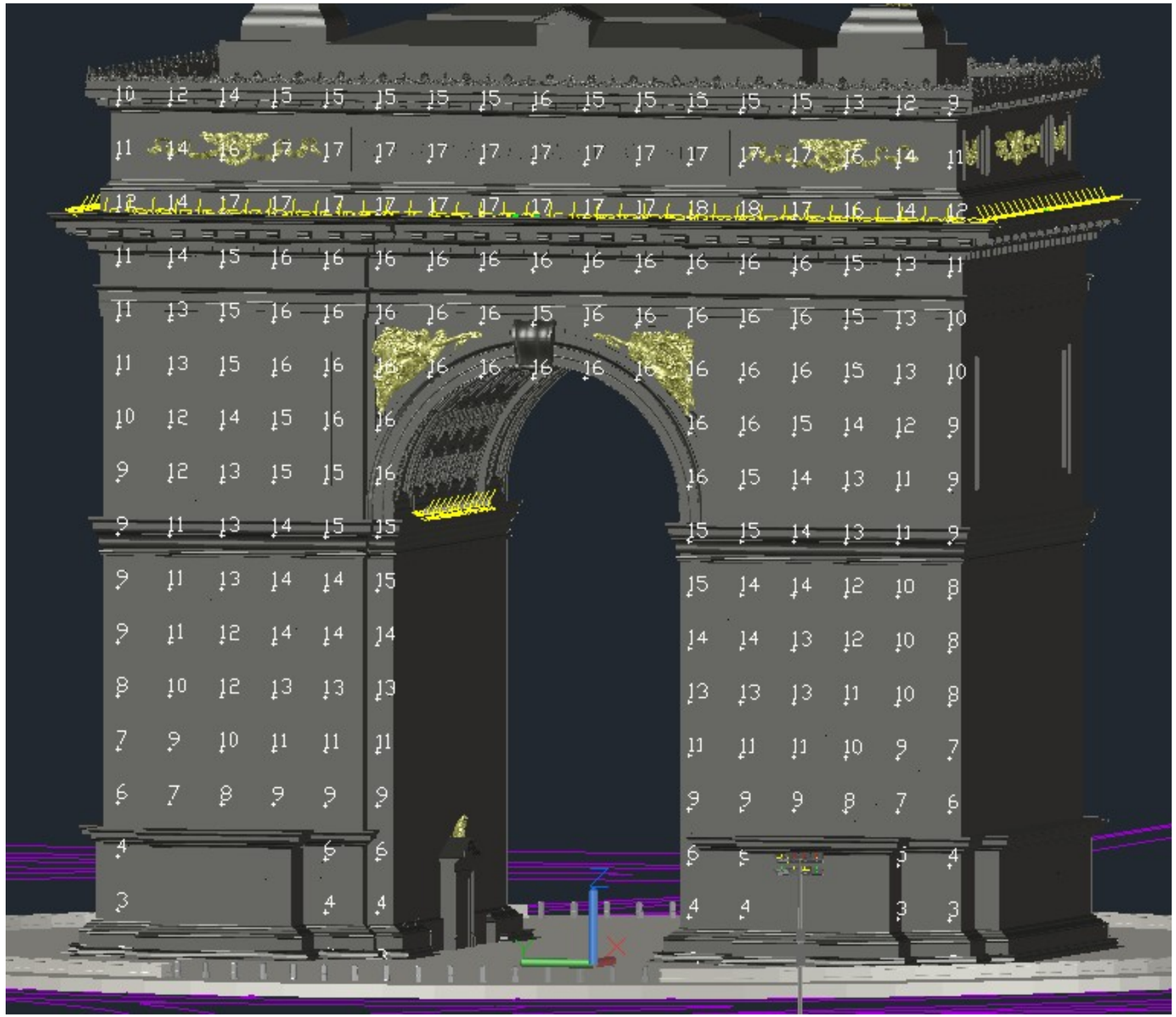
Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
12	M1-M3 M6-M11 M14-M16		170'	178'	TLC-LED-400NB	1	1	0
4	M4-M5 M12-M13		170'	178'	TLC-LED-400NB	1	1	0
2	T1 T4	30'	-	30'	TLC-LED-400NB	3	3	0
				30'	TLC-LED-400NB	5	5	0
4	T2-T3 T5-T6	30'	-	30'	TLC-LED-400NB	5	5	0
				30'	TLC-LED-400NB	3	3	0
	Non-Pole		-	146.3'	INSIGHT - ARGO PRO LINEAR		116	0
				89.5'	INSIGHT - ARGO PRO LINEAR		22	0
22	Totals					64	202	0

Above Field Level is height of fixtures above area shown



Triumphal Arch

Washington,DC

Grid Summary

Name:	Arch - Arlington Side
Spacing:	10.0' x 10.0'

Illumination Summary

MAINTAINED VERTICAL FOOTCANDLES: 0° Tilt

	Entire Grid
Scan Average:	11.97
Maximum:	18
Minimum:	2
Avg/Min:	6.79
Max/Min:	10.08
UG (adjacent pts):	1.62
CU:	0.13
No. of Points:	234
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	202
Total Load:	35.54 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.

SCALE IN FEET 1 : 30

0' 30' 60'

ENGINEERED DESIGN By: • File #Triumphal Arch Design B • 07-Aug-26

0° 90° 270° 180°
METER ORIENTATION

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
12	M1-M3 M6-M11 M14-M16		170'	178'	TLC-LED-400NB	1	1	0
4	M4-M5 M12-M13		170'	178'	TLC-LED-400NB	1	1	0
2	T1 T4	30'	-	30'	TLC-LED-400NB	3	3	0
				30'	TLC-LED-400NB	5	5	0
4	T2-T3 T5-T6	30'	-	30'	TLC-LED-400NB	5	5	0
				30'	TLC-LED-400NB	3	3	0
	Non-Pole		-	146.3'	INSIGHT - ARGO PRO LINEAR		116	0
				89.5'	INSIGHT - ARGO PRO LINEAR		22	0
22	Totals					64	202	0

Above Field Level is height of fixtures above area shown



Triumphal Arch

Washington,DC

Grid Summary

Name:	Arch - North Side
Spacing:	10.0' x 10.0'

Illumination Summary

MAINTAINED VERTICAL FOOTCANDLES: 0" Tilt

	Entire Grid
Scan Average:	9.68
Maximum:	20
Minimum:	1
Avg/Min:	8.51
Max/Min:	17.94
UG (adjacent pts):	1.72
CU:	0.08
No. of Points:	170
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	202
Total Load:	35.54 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.

SCALE IN FEET 1 : 30

0' 30' 60'

ENGINEERED DESIGN By: • File #Triumphal Arch Design C • 07-Aug-26

0° 90° 270° 180°
METER ORIENTATION

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
12	M1-M3 M6-M11 M14-M16		170'	178'	TLC-LED-400NB	1	1	0
4	M4-M5 M12-M13		170'	178'	TLC-LED-400NB	1	1	0
2	T1 T4	30'	-	30'	TLC-LED-400NB	3	3	0
				30'	TLC-LED-400NB	5	5	0
4	T2-T3 T5-T6	30'	-	30'	TLC-LED-400NB	5	5	0
				30'	TLC-LED-400NB	3	3	0
	Non-Pole		-	146.3'	INSIGHT - ARGO PRO LINEAR		116	0
				89.5'	INSIGHT - ARGO PRO LINEAR		22	0
22	Totals					64	202	0

Above Field Level is height of fixtures above area shown



Triumphal Arch

Washington,DC

Grid Summary

Name:	Statue - Center
Spacing:	10.0' x 10.0'

Illumination Summary

MAINTAINED VERTICAL FOOTCANDLES: 0" Tilt

	Entire Grid
Scan Average:	23.42
Maximum:	39
Minimum:	11
Avg/Min:	2.13
Max/Min:	3.53
UG (adjacent pts):	1.47
CU:	0.03
No. of Points:	23
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	202
Total Load:	35.54 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.

SCALE IN FEET 1 : 30

0' 30' 60'

ENGINEERED DESIGN By: • File #Triumphal Arch Design C • 07-Aug-26

0° 90° 270° 180°
METER ORIENTATION

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
12	M1-M3 M6-M11 M14-M16		170'	178'	TLC-LED-400NB	1	1	0
4	M4-M5 M12-M13		170'	178'	TLC-LED-400NB	1	1	0
2	T1 T4	30'	-	30'	TLC-LED-400NB	3	3	0
				30'	TLC-LED-400NB	5	5	0
4	T2-T3 T5-T6	30'	-	30'	TLC-LED-400NB	5	5	0
				30'	TLC-LED-400NB	3	3	0
	Non-Pole		-	146.3'	INSIGHT - ARGO PRO LINEAR		116	0
				89.5'	INSIGHT - ARGO PRO LINEAR		22	0
22	Totals					64	202	0

Above Field Level is height of fixtures above area shown



Triumphal Arch

Washington,DC

Grid Summary

Name:	Statue - North
Spacing:	10.0' x 10.0'

Illumination Summary

MAINTAINED VERTICAL FOOTCANDLES: 0° Tilt

	Entire Grid
Scan Average:	23.45
Maximum:	25
Minimum:	20
Avg/Min:	1.18
Max/Min:	1.28
UG (adjacent pts):	1.03
CU:	0.00
No. of Points:	4
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	202
Total Load:	35.54 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.

SCALE IN FEET 1 : 30

0' 30' 60'

ENGINEERED DESIGN By: • File #Triumphal Arch Design C • 07-Aug-26

0° 90° 270° 180°
METER ORIENTATION

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
12	M1-M3 M6-M11 M14-M16		170'	178'	TLC-LED-400NB	1	1	0
4	M4-M5 M12-M13		170'	178'	TLC-LED-400NB	1	1	0
2	T1 T4	30'	-	30'	TLC-LED-400NB	3	3	0
				30'	TLC-LED-400NB	5	5	0
4	T2-T3 T5-T6	30'	-	30'	TLC-LED-400NB	5	5	0
				30'	TLC-LED-400NB	3	3	0
	Non-Pole		-	146.3'	INSIGHT - ARGO PRO LINEAR		116	0
				89.5'	INSIGHT - ARGO PRO LINEAR		22	0
22	Totals					64	202	0

Above Field Level is height of fixtures above area shown



Triumphal Arch

Washington,DC

Grid Summary

Name:	Statue - South
Spacing:	10.0' x 10.0'

Illumination Summary

MAINTAINED VERTICAL FOOTCANDLES: 0" Tilt

	Entire Grid
Scan Average:	22.49
Maximum:	24
Minimum:	19
Avg/Min:	1.20
Max/Min:	1.29
UG (adjacent pts):	1.02
CU:	0.00
No. of Points:	4
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	202
Total Load:	35.54 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.

SCALE IN FEET 1 : 30

0' 30' 60'

ENGINEERED DESIGN By: • File #Triumphal Arch Design C • 07-Aug-26

0° 90° 270° 180°
METER ORIENTATION

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

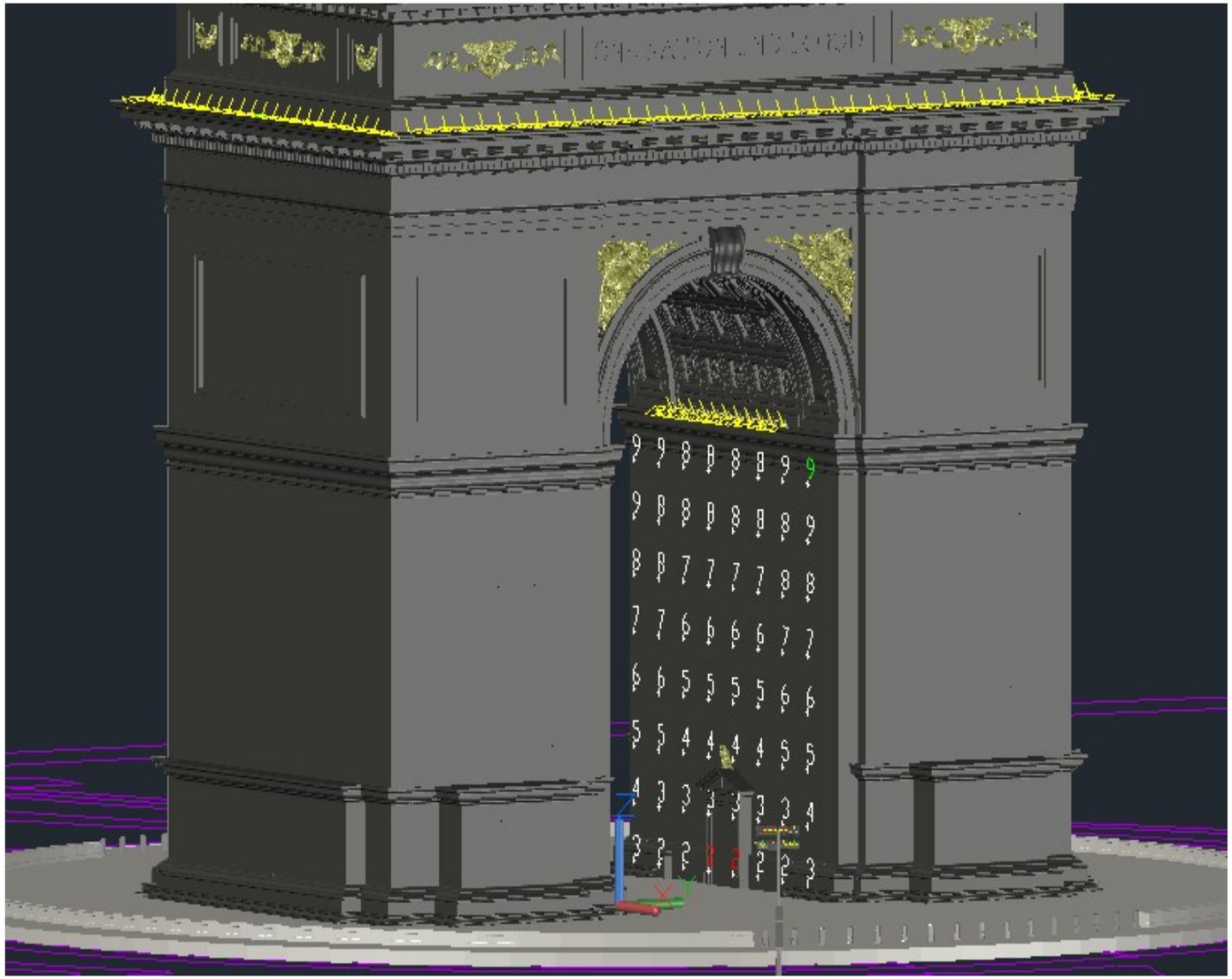
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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
12	M1-M3 M6-M11 M14-M16		170'	178'	TLC-LED-400NB	1	1	0
4	M4-M5 M12-M13		170'	178'	TLC-LED-400NB	1	1	0
2	T1 T4	30'	-	30'	TLC-LED-400NB	3	3	0
				30'	TLC-LED-400NB	5	5	0
4	T2-T3 T5-T6	30'	-	30'	TLC-LED-400NB	5	5	0
				30'	TLC-LED-400NB	3	3	0
	Non-Pole		-	146.3'	INSIGHT - ARGO PRO LINEAR		116	0
				89.5'	INSIGHT - ARGO PRO LINEAR		22	0
22	Totals					64	202	0

Above Field Level is height of fixtures above area shown



Triumphal Arch

Washington,DC

Grid Summary

Name:	Arch Interior Wall - North Side
Spacing:	10.0' x 10.0'

Illumination Summary

MAINTAINED VERTICAL FOOTCANDLES: 0° Tilt

	Entire Grid
Scan Average:	5.57
Maximum:	9
Minimum:	2
Avg/Min:	2.62
Max/Min:	4.21
UG (adjacent pts):	1.43
CU:	0.02
No. of Points:	64
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	202
Total Load:	35.54 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.

SCALE IN FEET 1 : 30

0' 30' 60'

ENGINEERED DESIGN By: • File #Triumphal Arch Design C • 07-Aug-26

0° 90° 270° 180°
METER ORIENTATION

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
12	M1-M3 M6-M11 M14-M16		170'	178'	TLC-LED-400NB	1	1	0
4	M4-M5 M12-M13		170'	178'	TLC-LED-400NB	1	1	0
2	T1 T4	30'	-	30'	TLC-LED-400NB	3	3	0
				30'	TLC-LED-400NB	5	5	0
4	T2-T3 T5-T6	30'	-	30'	TLC-LED-400NB	5	5	0
				30'	TLC-LED-400NB	3	3	0
	Non-Pole		-	146.3'	INSIGHT - ARGO PRO LINEAR		116	0
				89.5'	INSIGHT - ARGO PRO LINEAR		22	0
22	Totals					64	202	0

Above Field Level is height of fixtures above area shown



Triumphal Arch

Washington,DC

Grid Summary

Name:	Arch Interior Wall - South Side
Spacing:	10.0' x 10.0'

Illumination Summary

MAINTAINED VERTICAL FOOTCANDLES: 0" Tilt

	Entire Grid
Scan Average:	5.57
Maximum:	9
Minimum:	2
Avg/Min:	2.62
Max/Min:	4.21
UG (adjacent pts):	1.43
CU:	0.02
No. of Points:	64
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	202
Total Load:	35.54 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.

SCALE IN FEET 1 : 30

0' 30' 60'

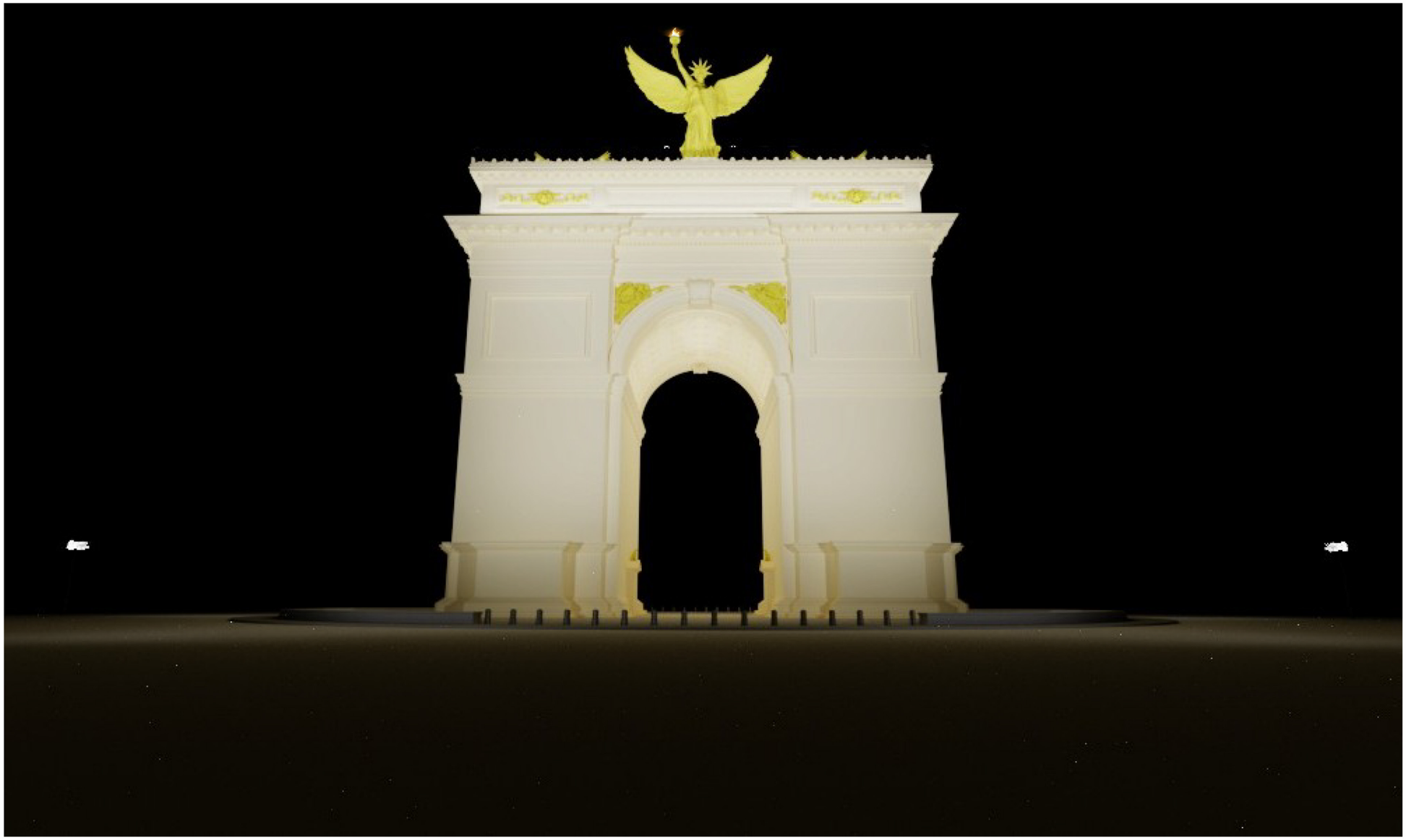
ENGINEERED DESIGN By: • File #Triumphal Arch Design C • 07-Aug-26

0° 90° 270° 180°
METER ORIENTATION

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

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Triumphal Arch - Lincoln Side

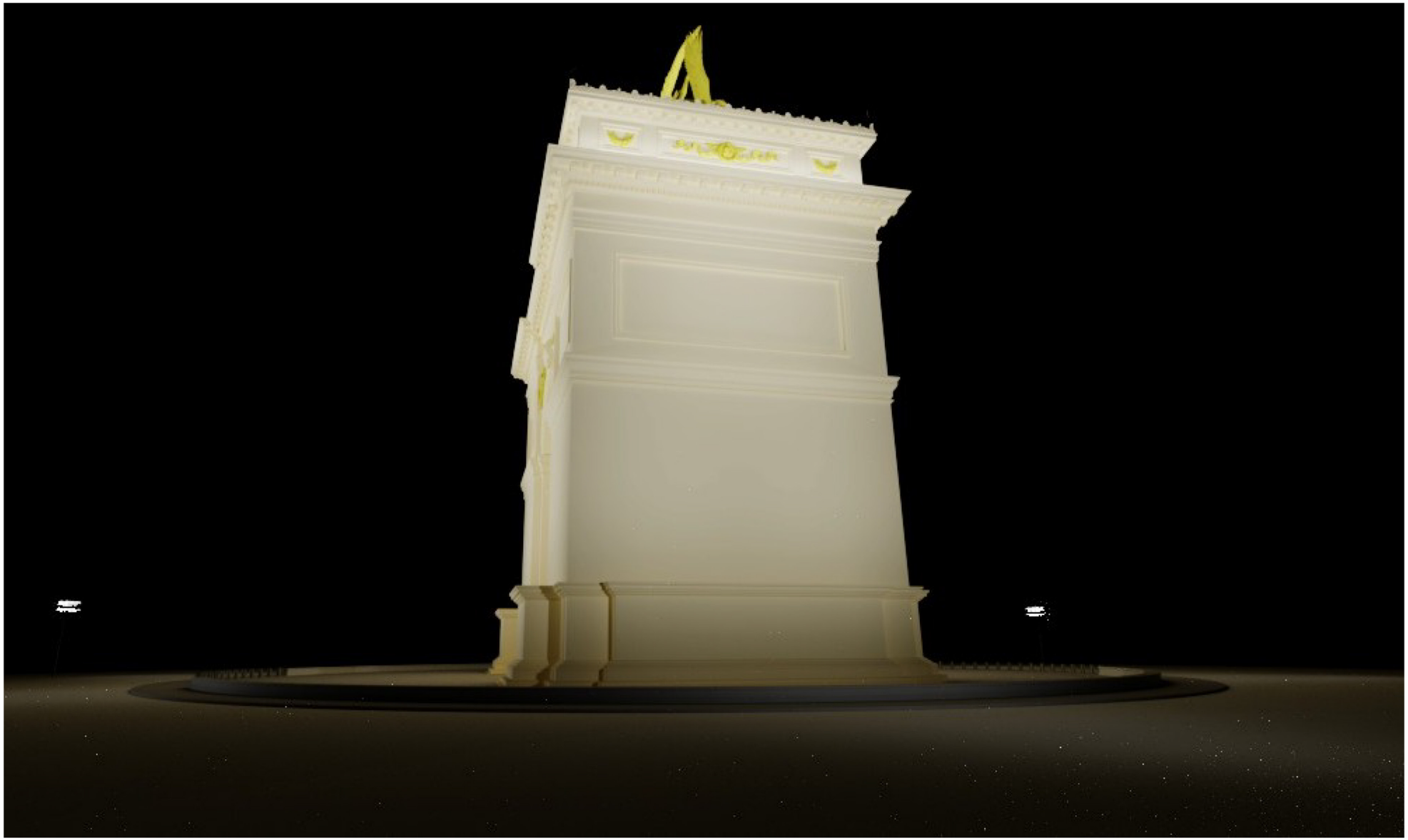


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Triumphal Arch - South Side



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Triumphal Arch - Arlington Side

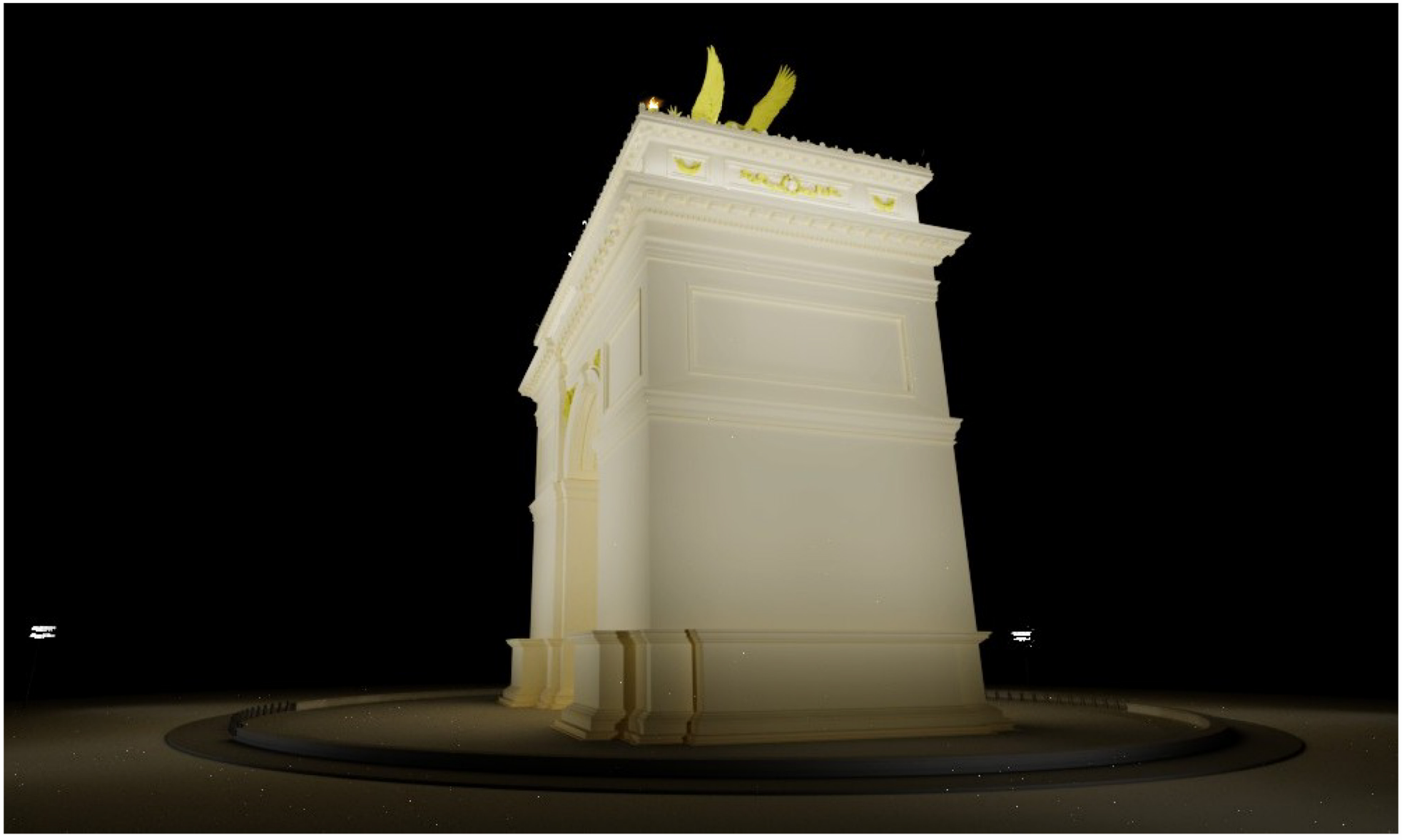


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Triumphal Arch - North Side



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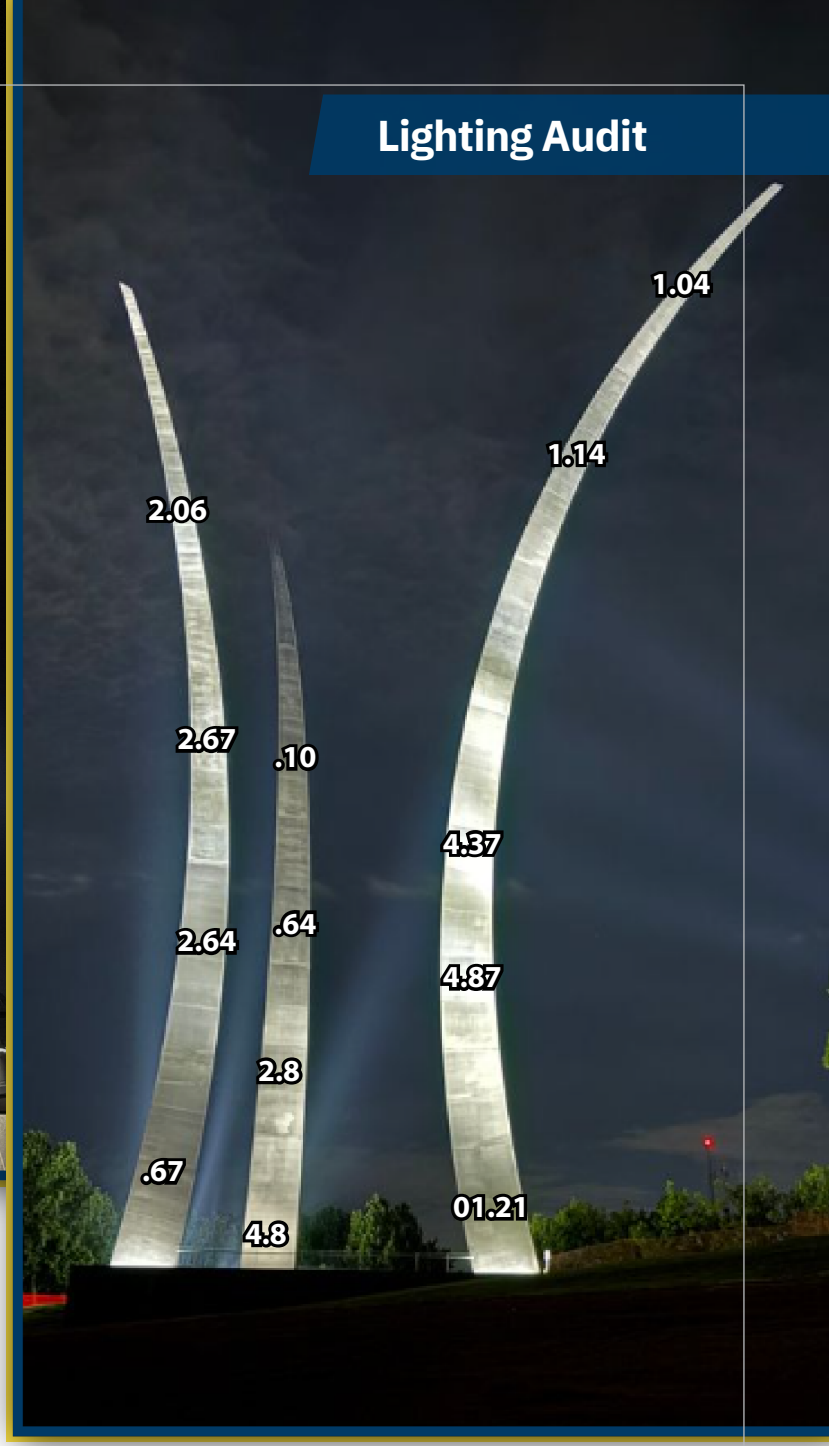
Triumphal Arch - Arch Interior



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Airforce Memorial

Arlington, VA

Overview:

Light levels vary significantly across the structures, resulting in inconsistent brightness and visual uniformity, with measurements ranging from approximately .10 fc to 4.87 fc.

Color Tempature:

4000K

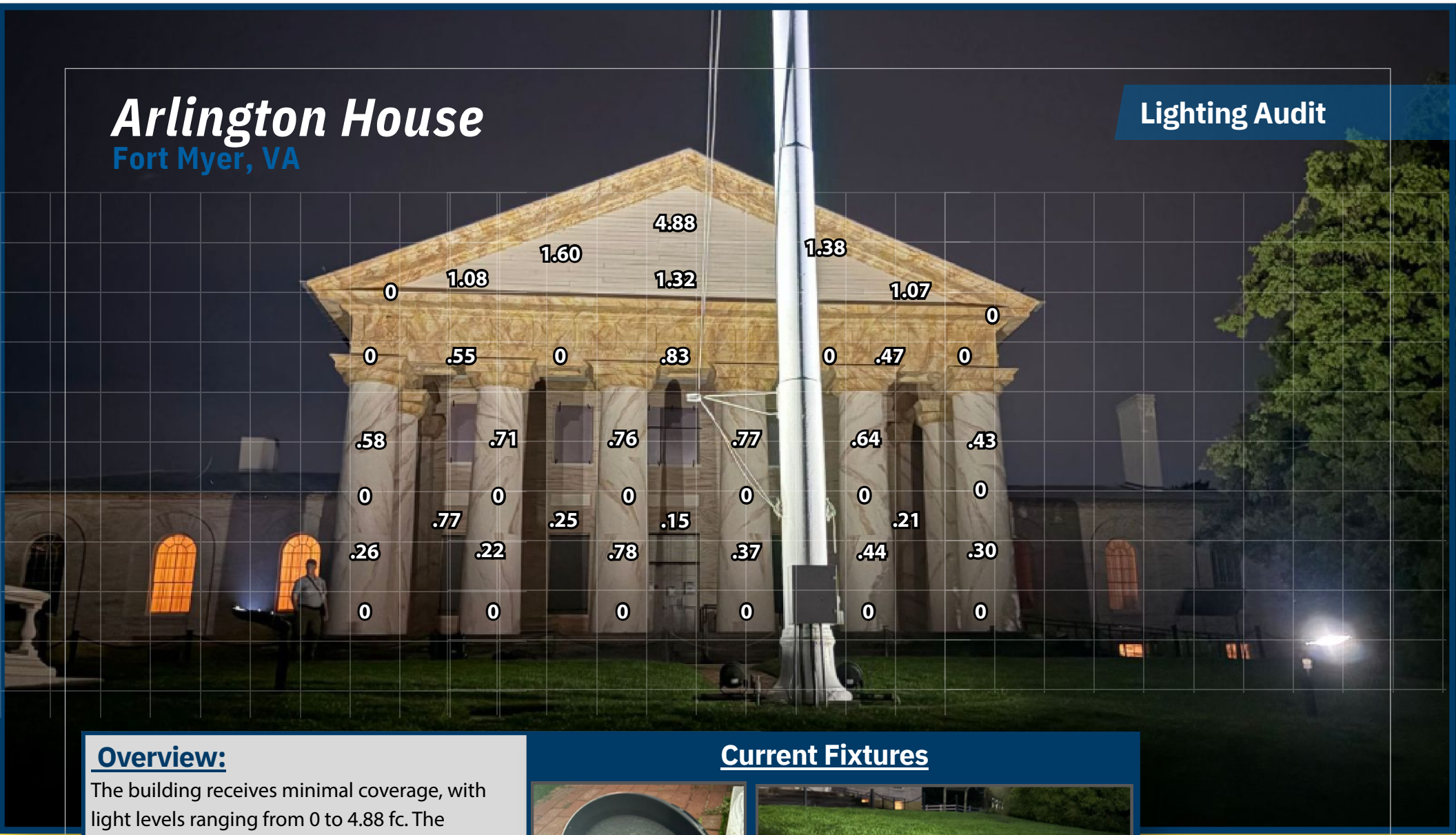
4140K @ 29' from source

Learn more at:
www.musco.com/solution/architectural/

Arlington House

Fort Myer, VA

Lighting Audit



Overview:

The building receives minimal coverage, with light levels ranging from 0 to 4.88 fc. The monument lighting fixtures are non-functional, including one visibly damaged fixture, leaving the building illuminated primarily by spill light from the flagpole fixtures. The flag lighting is also ineffective due to overly wide beam spreads, resulting in poor flag visibility and uneven lighting across the façade.

Current Fixtures





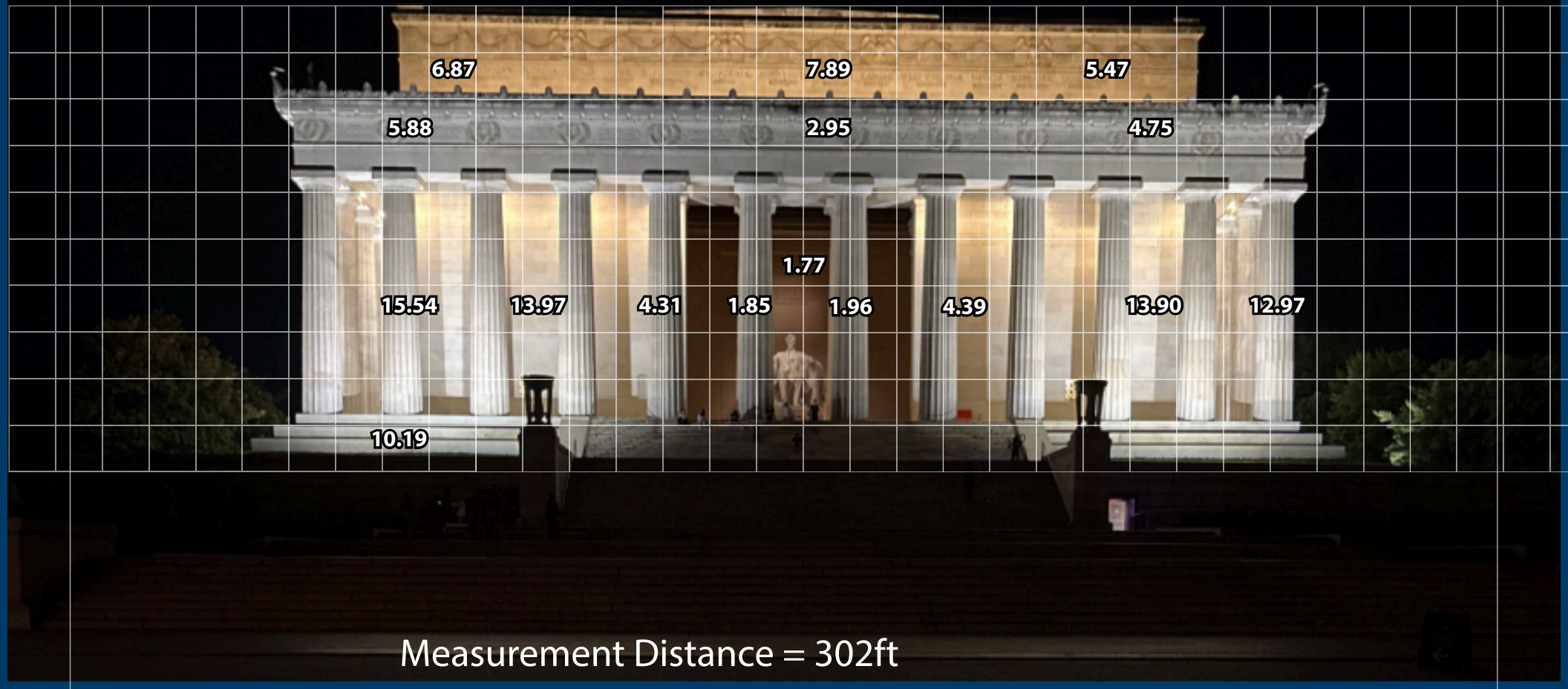
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www.musco.com/solution/architectural/

The Lincoln Memorial (East)

Washington, DC

Lighting Audit



Measurement Distance = 302ft

Overview:

Existing lighting shows inconsistent light levels and color temperatures across the monument. Footcandle readings vary from 1.8 fc to 15.5 fc.

Color Tempature:

Top = 3000K

Bottom / Main = 5000K

Reflective Color Temp = 4400K

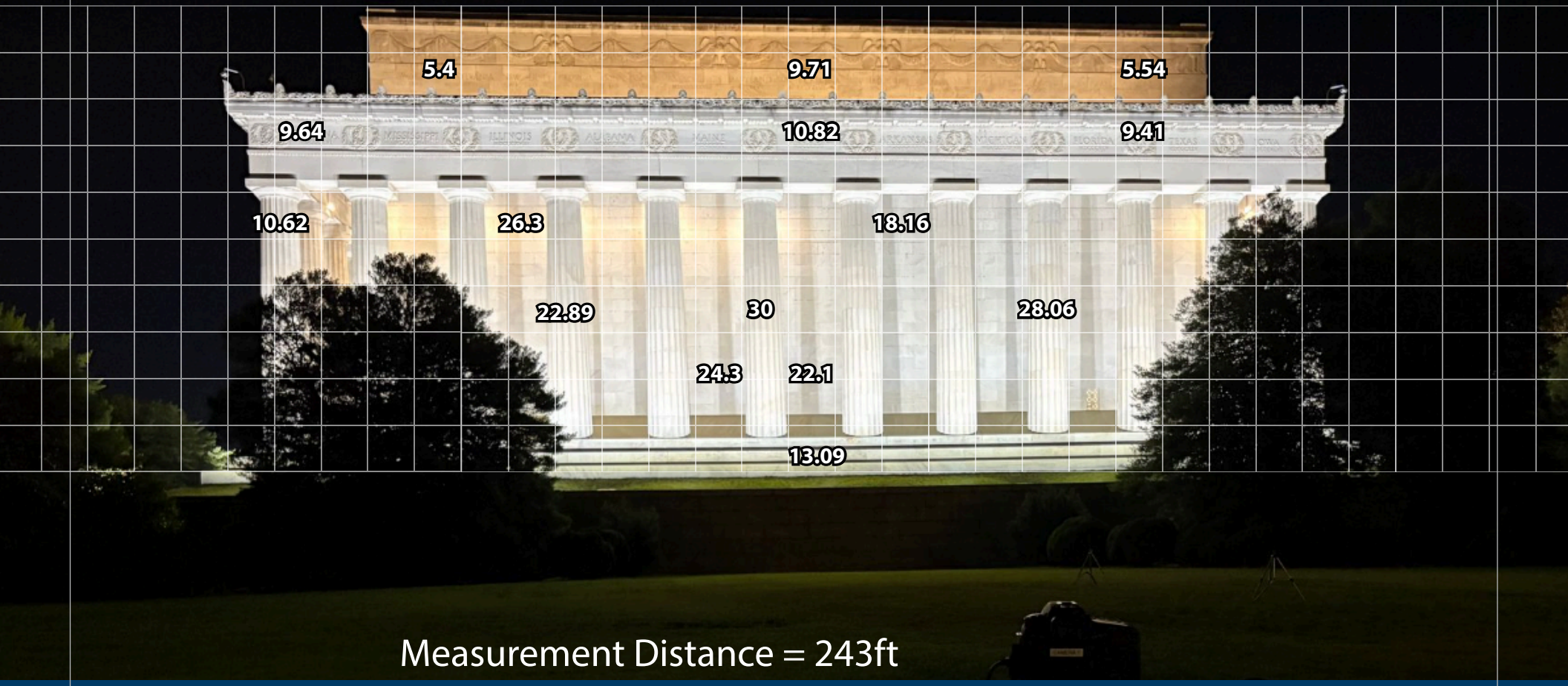
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Learn more at:
www.musco.com/solution/architectural/

The Lincoln Memorial (West)

Washington, DC

Lighting Audit



Measurement Distance = 243ft

Overview:

Existing lighting shows inconsistent light levels and color temperatures across the monument. Footcandle readings vary from 5.4 fc to 30 fc.

Color Tempature:

Top = 3000K

Bottom / Main = 5000K

Reflective Color Temp = 4400K

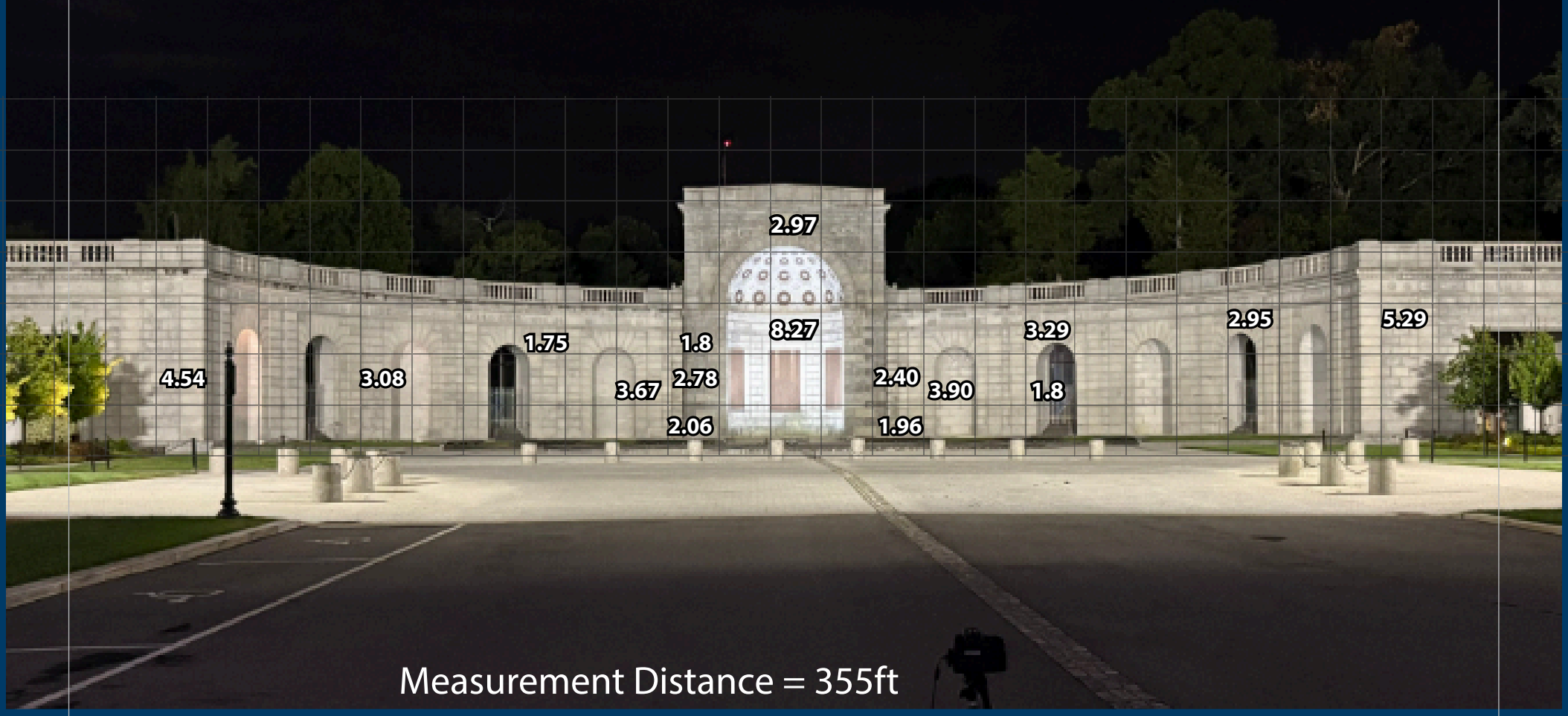
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Learn more at:
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Military Women's Memorial Arch

Arlington, VA

Lighting Audit



Overview:

Current light levels vary across the memorial, with measurements ranging from approximately 2 fc to 8 fc.

Color Tempature:

4700K

4740K @ 180' from source

Reflective Color Temp = 4502K

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Architectural Lighting Solutions

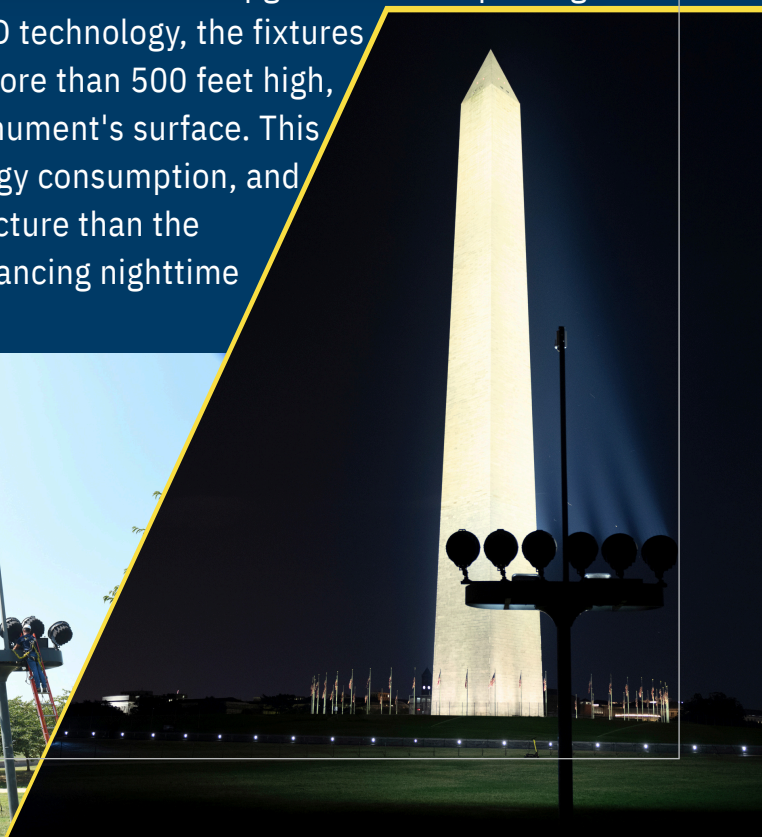
Washington
MONUMENT
Washington, DC

System Facts

- **System:** Total Light Control – TLC for LED™
- **Number of Fixtures**: 24
- **Light Level:** 2fc
- **Color Tempature:** 4000K
- **CRI:** 70

The monument's new LED lighting system delivers a dramatic visual upgrade while improving efficiency and flexibility. Utilizing Musco's TLC for LED technology, the fixtures direct light into a precisely focused beam reaching more than 500 feet high, with over 80% of the light applied directly to the monument's surface. This targeted approach reduces wasted light, lowers energy consumption, and allows fixtures to be positioned farther from the structure than the previous lighting system, preserving views while enhancing nighttime visibility and impact.





Learn more and see additional photos at
www.musco.com/solution/architectural/



Architectural Lighting Solutions

The White House

NATIONAL HISTORIC LANDMARK

Washington, DC

System Facts

- **System:** Total Light Control – TLC for LED™
- **Number of Fixtures**: 79
- **Light Level:** 5fc
- **Color Tempature:** 3500K
- **CRI:** 75

The White House upgraded its historic façade lighting with Musco's TLC for LED® system, improving energy efficiency, lighting quality, and long-term reliability. Precision optics and advanced controls provide uniform illumination while reducing energy use through dimming and scene adjustments. The new system is projected to operate for more than 50,000 hours, significantly reducing maintenance requirements.



Learn more and see additional photos at
www.musco.com/solution/architectural/