

New Port Richey Rec Center

New Port Richey, FL

Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
M1-M4, M9-M12, M17-M20, M25-M28, M33-M36	--	26'	1	CREE KBL	0.19 kW	A
M5-M8, M13-M16, M21-M24, M29-M32, M37-M40	--	26'	1	CREE KBL	0.19 kW	B
40			40		7.56 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Gym 1	3.78 kW	20
B	Gym 2	3.78 kW	20

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
CREE KBL	LED 5000K - 80 CRI	189W	22,998	--	--	--	40

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Full Gym (NO CURTAIN)	Horizontal Illuminance	41.6	11	55	4.78	3.78	A,B	40
Gym 1	Horizontal Illuminance	46.5	31	55	1.74	1.50	A	20
Gym 2	Horizontal Illuminance	46.5	31	55	1.74	1.50	B	20

From Hometown to Professional



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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
20	M1-M4 M17-M20 M25-M28 M33-M36 M9-M12		26'	26'	CREE KBL	1	1	0
TOTALS						20	20	0

New Port Richey Rec Center

New Port Richey, FL

GRID SUMMARY

Name: Gym 1
Size: 50' x 94'
Spacing: 10.0' x 10.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average: 46.5
Maximum: 55
Minimum: 31
Avg / Min: 1.48
Max / Min: 1.74
UG (adjacent pts): 1.32
CU: 0.51
No. of Points: 50

LUMINAIRE INFORMATION

Color / CRI: 5000K - 80 CRI
Luminaire Output: 22,998 lumens
No. of Luminaires: 20
Total Load: 3.78 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
CREE KBL	--	--	--

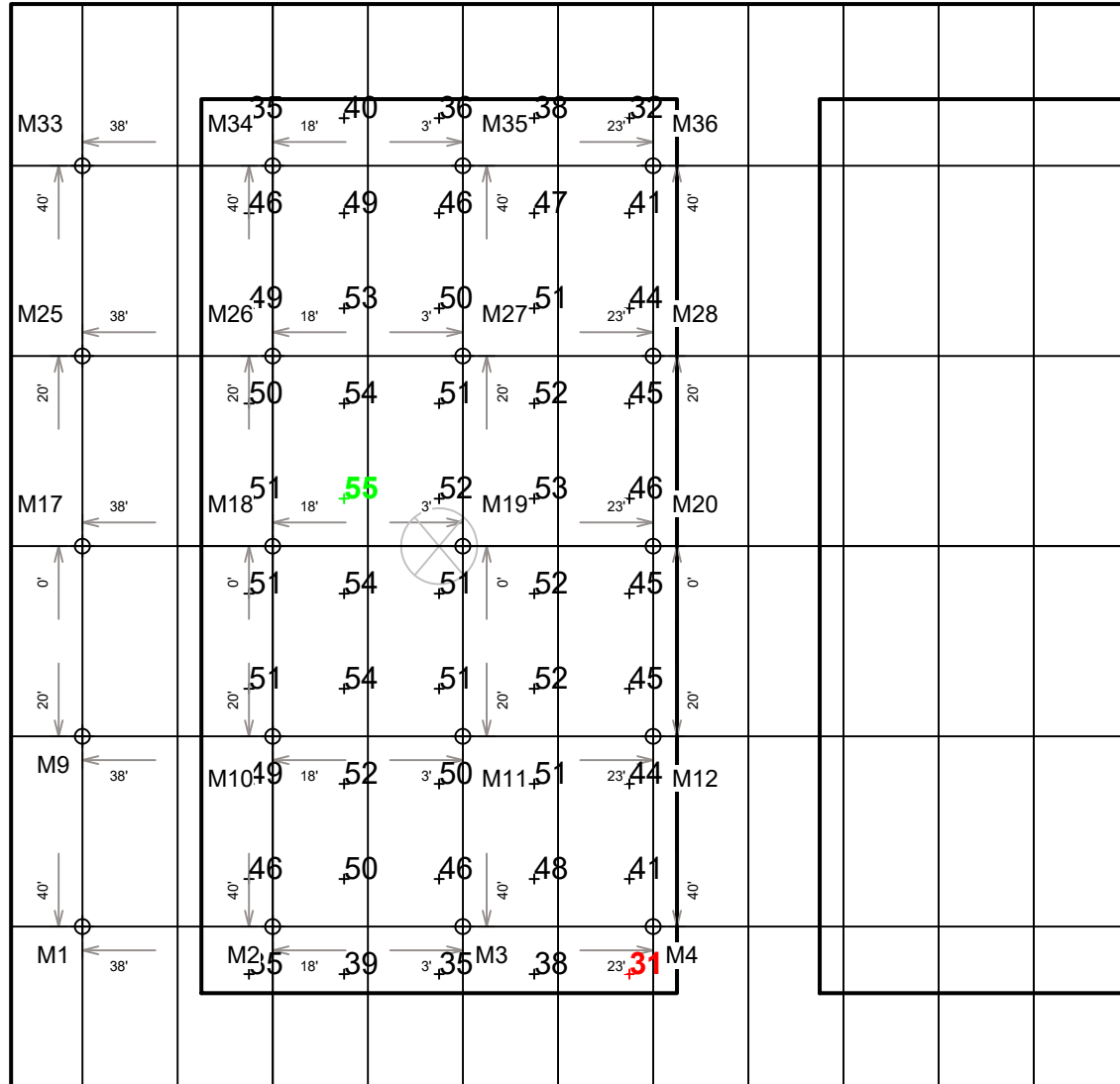
Reported per TM-21-11. See luminaire datasheet for details.

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

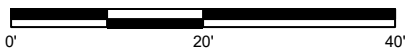
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.



SCALE IN FEET 1 : 20

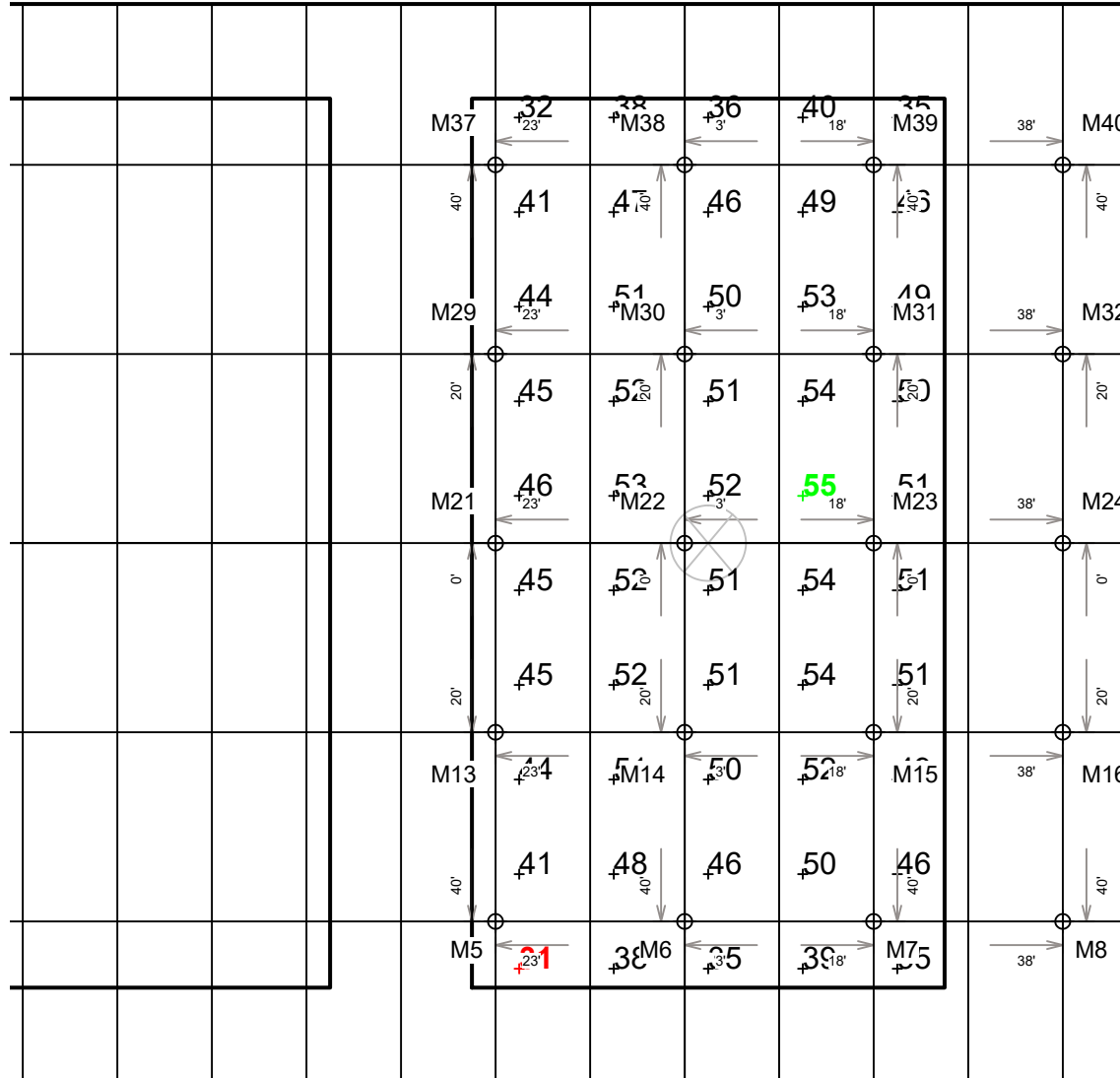


Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

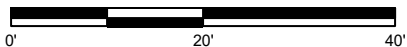


EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
20	M13-M16 M21-M24 M29-M32 M37-M40 M5-M8		26'	26'	CREE KBL	1	1	0
20	TOTALS					20	20	0



SCALE IN FEET 1 : 20



Pole location(s) Ⓜ dimensions are relative to 0,0 reference point(s) ⊗

New Port Richey Rec Center

New Port Richey, FL

GRID SUMMARY

Name: Gym 2
Size: 50' x 94'
Spacing: 10.0' x 10.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average: 46.5
Maximum: 55
Minimum: 31
Avg / Min: 1.48
Max / Min: 1.74
UG (adjacent pts): 1.32
CU: 0.51
No. of Points: 50

LUMINAIRE INFORMATION

Color / CRI: 5000K - 80 CRI
Luminaire Output: 22,998 lumens
No. of Luminaires: 20
Total Load: 3.78 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
CREE KBL	--	--	--

Reported per TM-21-11. See luminaire datasheet for details.

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.



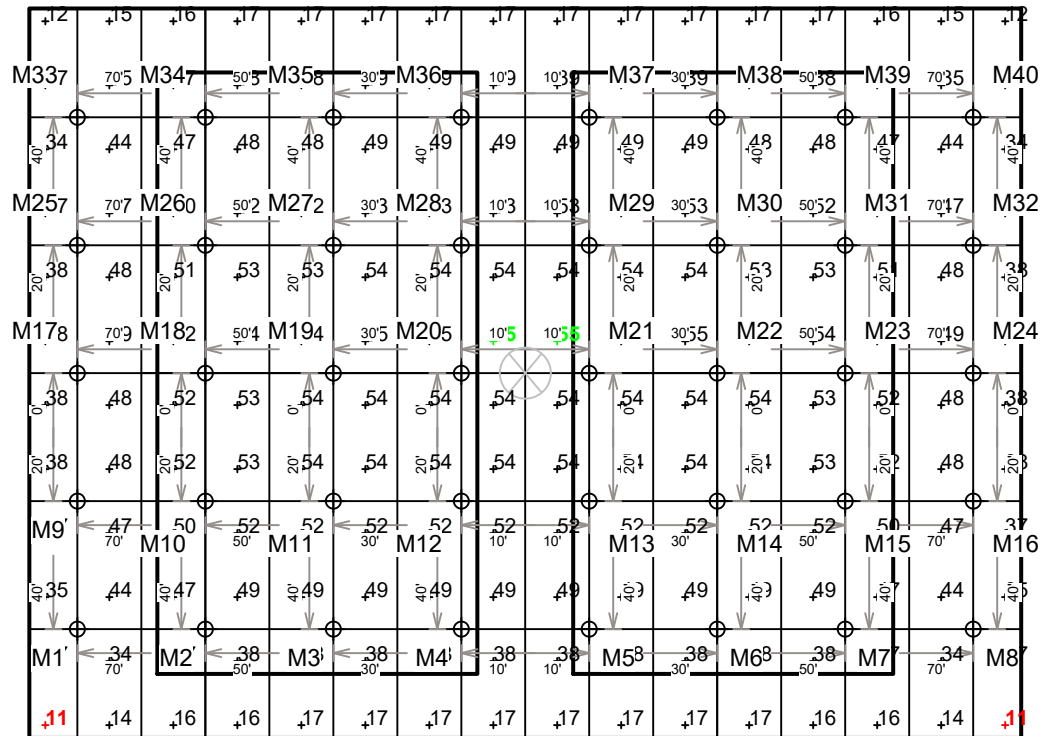
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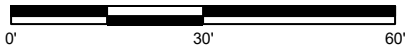
ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
40	M1-M40		26'	26'	CREE KBL	1	1	0
40	TOTALS					40	40	0

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
40	M1-M40		26'	26'	CREE KBL	1	1	0
40	TOTALS					40	40	0



SCALE IN FEET 1 : 30



ENGINEERED DESIGN By: Daniel Lohman • File #198350A Field House • 08-Apr-19

New Port Richey, FL

GRID SUMMARY	
Name:	Full Gym (NO CURTAIN)
Size:	155' x 114'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

Height: 3.0' above grade

MAINTAINED HORIZONTAL FOOTCANDLES			
		Entire Grid	
Scan Average:	41.6		
Maximum:	55		
Minimum:	11		
Avg / Min:	3.63		
Max / Min:	4.78		
UG (adjacent pts):	2.39		
CU:	0.87		
No. of Points:	192		
LUMINAIRE INFORMATION			
Color / CRI:	5000K - 80 CRI		
Luminaire Output:	22,998 lumens		
No. of Luminaires:	40		
Total Load:	7.56 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
CREE KBL	--	--	--
Reported per TM-21-11. See luminaire datasheet for details.			

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



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ILLUMINATION SUMMARY

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New Port Richey, FL

EQUIPMENT LAYOUT

INCLUDES:

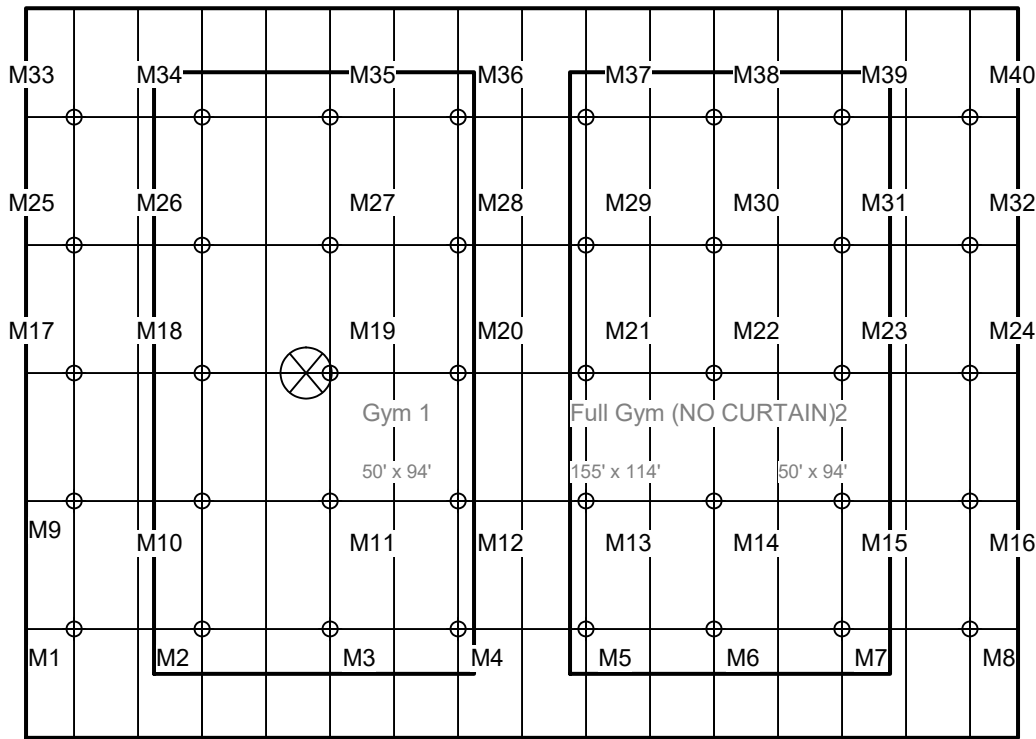
- Full Gym (NO CURTAIN)
- Gym 1
- Gym 2

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

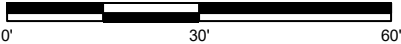
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN						
Pole				Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
40	M1-M40		26'	26'	CREE KBL	1
40	TOTALS					40

SINGLE LUMINAIRE AMPERAGE DRAW CHART							
Ballast Specifications (.90 min power factor)		Line Amperage Per Luminaire (max draw)					
Single Phase Voltage		208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	480 (60)
Cree KBL		-	-	-	-	-	-



SCALE IN FEET 1 : 30



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