New Fairfield High School New Fairfield, CT

Lighting System

Pole/Fixture Summary										
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit				
F1-F2	70'	90'	11	TLC-LED-1500	15.51 kW	A				
		36'	2	TLC-BT-575	1.15 kW	A				
F3-F4	70'	70'	8	TLC-LED-1500	11.28 kW	Α				
		16'	2	TLC-BT-575	1.15 kW	A				
4			46		58.18 kW					

Circuit Sumn	nary		
Circuit	Description	Load	Fixture Qty
Α	Football	58.18 kW	46

Fixture Type Summary							
Туре	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	8
TLC-LED-1500	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	38

Single Luminaire Amperage Draw Chart										
Driver Specifications Line Amperage Per Luminaire										
(.90 min power factor)	(max draw)									
Single Phase Voltage	208	220	240	277	347	380	480			
Single Phase Voltage	(60)	(60)	(60)	(60)	(60)	(60)	(60)			
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5			
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6			

Light Level Summary

Calculation Grid Summary									
Grid Name	Calculation Metric	Ave	Min	Max	Max/Min	Ave/Min	Circuits	Fixture Qty	
Football	Horizontal Illuminance	53.2	36	65	1.78	1.48	Α	46	
Home Bleachers	Horizontal	27.9	17	36	2.09	1.64	Α	46	
Road Spill Line	Horizontal Illuminance	0.04	0	0.09	65.46		Α	46	
Road Spill Line	Max Vertical Illuminance Metric	0.17	0.01	0.33	40.78	16.55	Α	46	
Road Spill Line (Cd)	Max Candela Metric	4632	778	6018	7.74	5.96	Α	46	
Soccer	Horizontal Illuminance	53.9	36	66	1.83	1.50	Α	46	
Track	Horizontal Illuminance	30.9	4	68	18.24	7.73	Α	46	
Visitor Bleachers	Horizontal	15.9	12	24	2.04	1.33	Α	46	

From Hometown to Professional











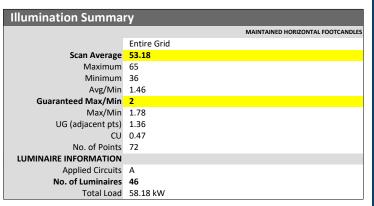
Equipment List For Areas Shown Luminaires GRADE MOUNTING OTHER GRIDS LUMINAIRE TYPE QTY/POLE QTY LOCATION SIZE LEVATION 20' TLC-LED-1500 11 0 2 F1-F2 70' 90' 11 TLC-BT-575 0 0 F3-F4 70' TLC-LED-1500 TLC-BT-575 16' 2 0 46 46 Totals 58 57 50 51 550 .55° 43 50 50 49 37 46 47 49 47 46 43 8 50 51 51 52 52 51 51 50 59 60 59 60 60 59 60 59 54 64 62 62 61 64 60 61

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

New Fairfield High School

New Fairfield, CT





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.



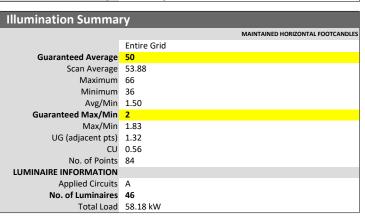
Equipment List For Areas Shown Luminaires GRADE MOUNTING OTHER GRIDS LUMINAIRE TYPE QTY LOCATION QTY/POLE SIZE LEVATION TLC-LED-1500 F1-F2 70' 20' 90' TLC-BT-575 F3-F4 70' TLC-LED-1500 TLC-BT-575 16' 46 46 Totals 50⊗

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

New Fairfield High School

New Fairfield, Cl





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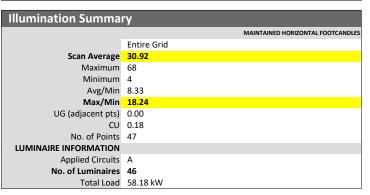
Equipment List For Areas Shown Luminaires GRADE OTHER GRIDS LUMINAIRE TYPE QTY/POLE QTY LOCATION SIZE ELEVATION 20' 90' TLC-LED-1500 11 0 2 F1-F2 70' 11 0 TLC-BT-575 F3-F4 70' TLC-LED-1500 TLC-BT-575 16' 2 0 46 46 Totals 66 61 62 66 25 14 13 15 31 45

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

New Fairfield High School

New Fairfield, CT





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Equipment List For Areas Shown Luminaires GRADE MOUNTING THIS GRID OTHER GRIDS LUMINAIRE TYPE QTY QTY/POLE LOCATION SIZE ELEVATION HEIGHT 70' 20' 90' TLC-LED-1500 11 0 2 F1-F2 11 TLC-BT-575 36' 0 F3-F4 0 70' TLC-LED-1500 TLC-BT-575 16' 2 0 46 46 0 18 19 21 24 26 28 28 27 27 28 27 25 23 21 19 17 31 31 30 28 26 24 23 22 23 25 27 29 31 31 31 30 33 33 30 28 35 33 33 34 32 28 29 31 33 33

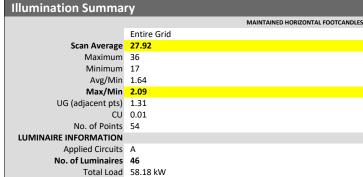
SCALE IN FEET 1 : 20

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

New Fairfield High School

New Fairfield, CT





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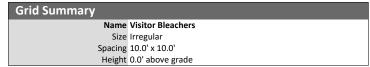


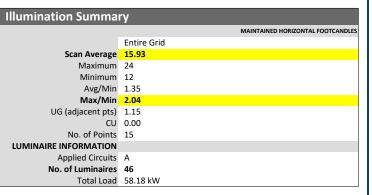
Equipment List For Areas Shown Luminaires OTHER GRIDS GRADE MOUNTING THIS GRID QTY LUMINAIRE TYPE QTY/POLE LOCATION SIZE ELEVATION 70' 20' 90' TLC-LED-1500 11 0 2 F1-F2 11 TLC-BT-575 0 F3-F4 70' TLC-LED-1500 TLC-BT-575 16' 2 0 46 46 Totals 20 22

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

New Fairfield High School

New Fairfield, CT





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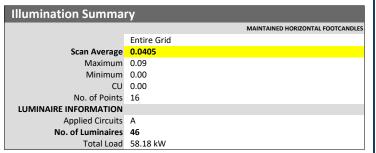
Luminaires OTHER GRIDS GRADE MOUNTING LUMINAIRE TYPE QTY LOCATION QTY/POLE SIZE ELEVATION 70' 20' 90' TLC-LED-1500 11 0 2 F1-F2 TLC-BT-575 0 F3-F4 70' TLC-LED-1500 TLC-BT-575 16' 46 46 0.08 0.08 0.06 0.04 0.02 0.00

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

New Fairfield High School

New Fairfield, CT

Grid Summary Name Road Spill Line Spacing 30.0' x 30.0' Height 3.0' above grade



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Equipment List For Areas Shown

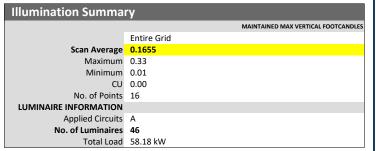
Luminaires OTHER GRIDS GRADE MOUNTING LUMINAIRE TYPE QTY LOCATION QTY/POLE SIZE ELEVATION 70' 20' 90' TLC-LED-1500 11 0 2 F1-F2 TLC-BT-575 0 F3-F4 70' TLC-LED-1500 TLC-BT-575 16' 46 46 0.28 0.26 0.03 0.01

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

New Fairfield High School

New Fairfield, CT

Grid Summary Name Road Spill Line Spacing 30.0' x 30.0' Height 3.0' above grade



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Equipment List For Areas Shown

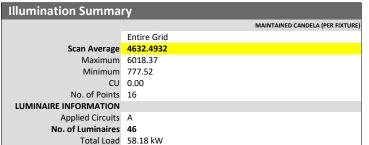
Luminaires OTHER GRIDS GRADE MOUNTING LUMINAIRE TYPE QTY LOCATION QTY/POLE SIZE ELEVATION 70' 20' 90' TLC-LED-1500 11 0 2 F1-F2 11 TLC-BT-575 0 F3-F4 70' TLC-LED-1500 TLC-BT-575 16' 46 46 3702 5688 5975 5180

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

New Fairfield High School

New Fairfield, CT

Grid Summary Name Road Spill Line (Cd) Spacing 30.0' x 30.0' Height 5.0' above grade



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Equipment List For Areas Shown



New Fairfield High School

New Fairfield, CT

Equipment Layout

INCLUDES:

- · Football · Soccer · Track

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

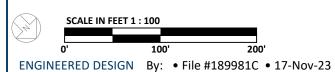
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Εqι	Equipment List For Areas Shown										
		Pole		Luminaires							
QTY	LOCATION	SIZE	LUMINAIRE TYPE	QTY/POLE							
2	F1-F2	70'	20'	90'	TLC-LED-1500	11					
			36'	TLC-BT-575	2						
2	F3-F4	70'	-	70'	TLC-LED-1500	8					
				16'	TLC-BT-575	2					
4	4 Totals										

Single Luminaire Amperage Draw Chart									
Driver Specifications Line Amperage Per Luminaire									
(.90 min power factor)	(max draw)								
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Single Phase voltage	(60)	(60)	(60)	(60)	(60)	(60)	(60)		
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5		
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6		



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