

### EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	T1-T4	50'	-	50'	1500W MZ	3	3	0
4	TOTALS					12	12	0



#### MY PROJECT

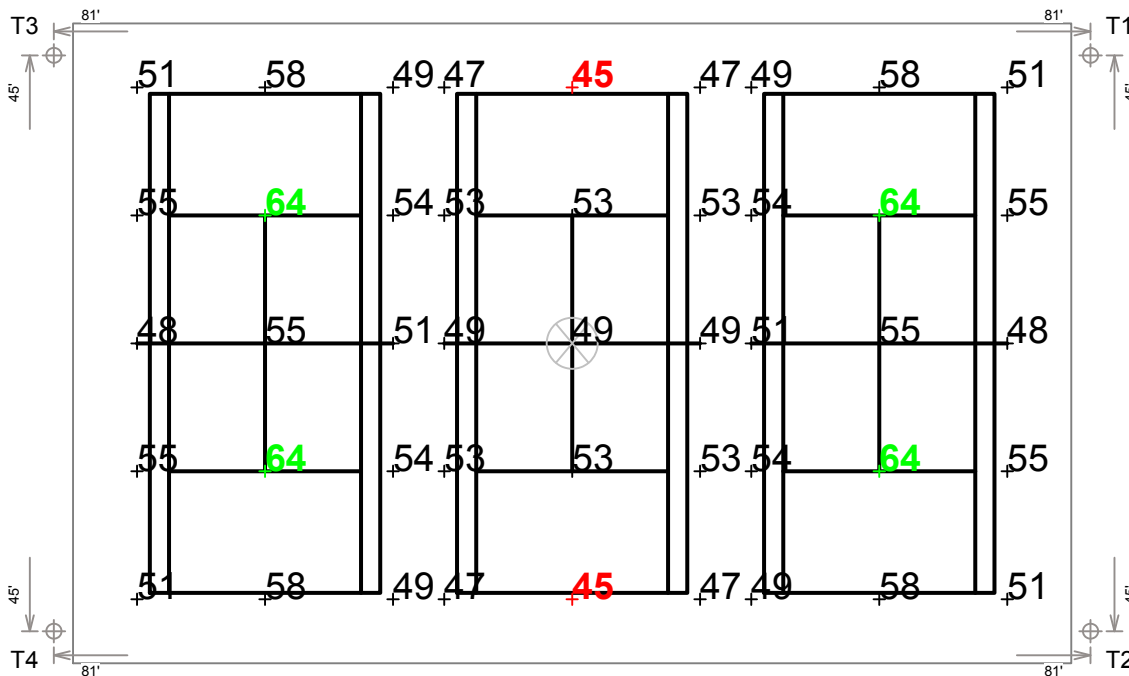
**Name:** Free State High School Tennis  
**Location:** Lawrence, KS

#### GRID SUMMARY

**Name:** Tennis 1-3  
**Size:** 3 Court - 12' Spacing  
**Spacing:** 20.0' x 20.0'  
**Height:** 3.0' above grade

#### CONSTANT ILLUMINATION

SUMMARY	HORIZONTAL FOOTCANDLES
Entire Grid	
<b>Guaranteed Average:</b>	<b>50</b>
Scan Average:	52.9
Maximum:	64
Minimum:	45
Avg / Min:	1.17
<b>Max / Min:</b>	<b>1.41</b>
UG (adjacent pts):	0.00
CV:	0.09
No. of Points:	45
LUMINAIRE INFORMATION	
Luminaire Type:	Green Generation
Rated Lamp Life:	5,000 hours
Avg Lumens / Lamp:	134,000
Avg Lamp Tilt Factor:	1.000
No. of Luminaires:	12
Avg KW:	18.77 (20.4 max)



SCALE IN FEET 1 : 30



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

#### ENGINEERED DESIGN

**By:** Brett Morris  
**File # / Date:** 158418 22-May-12

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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
4	T1-T4	50'	-	50'	1500W MZ	3	3	0
4	TOTALS					12	12	0



**MY PROJECT**

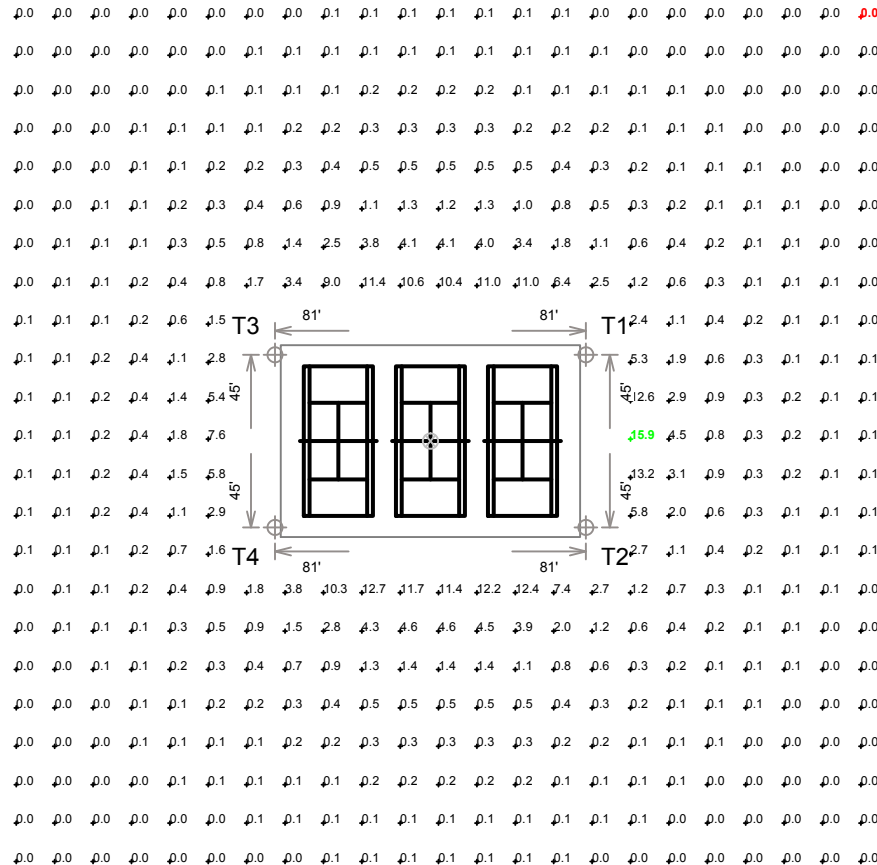
**Name:** Free State High School Tennis  
**Location:** Lawrence, KS

**GRID SUMMARY**

**Name:** Blanket Grid  
**Size:** 3 Court - 12' Spacing  
**Spacing:** 20.0' x 20.0'  
**Height:** 3.0' above grade

**CONSTANT ILLUMINATION**

SUMMARY	HORIZONTAL FOOTCANDLES
Entire Grid	
<b>Scan Average:</b>	<b>0.9</b>
Maximum:	16
Minimum:	0
Avg / Min:	112.78
<b>Max / Min:</b>	<b>2031.25</b>
UG (adjacent pts):	5.86
CV:	2.59
No. of Points:	459
LUMINAIRE INFORMATION	
Luminaire Type:	Green Generation
Rated Lamp Life:	5,000 hours
Avg Lumens / Lamp:	134,000
Avg Lamp Tilt Factor:	1.000
No. of Luminaires:	12
Avg KW:	18.77 (20.4 max)



SCALE IN FEET 1 : 100



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

**ENGINEERED DESIGN**

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**ILLUMINATION SUMMARY**



**MY PROJECT**

Name: Free State High School Tennis  
 Location: Lawrence, KS

**EQUIPMENT LAYOUT**

**INCLUDES:**

· Tennis 1-3

**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.

**EQUIPMENT LIST FOR AREAS SHOWN**

QTY	Pole			Luminaires		QTY / POLE
	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	
4	T1-T4	50'	-	50'	1500W MZ	3
4	TOTALS					12

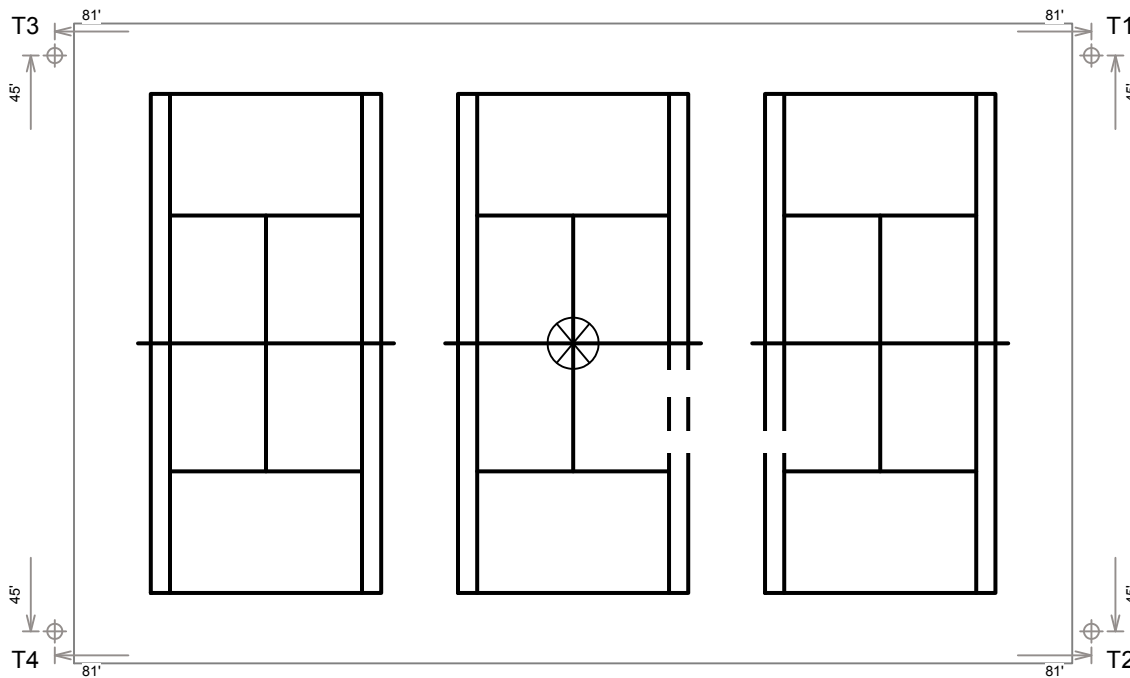
**SINGLE LUMINAIRE AMPERAGE DRAW CHART**

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)
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
1500 watt MZ	8.6	7.7	7.5	6.5	5.1	-	3.7

**ENGINEERED DESIGN**

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SCALE IN FEET 1 : 30



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