

The Light ARchitect App is the perfect tool for specifying the right fixture and layout for almost any application. The App is fast, extremely easy to master, and produces extremely precise lighting layouts.

A great way to visually see the performance of a particular fixture is to lay it out on a football field. Utilizing a football field as the background is an ideal way to view the distribution light levels and light levels in reference to set distances. After the fixture, distribution pattern, and pole height have been specified, the football field can then assist in determining the maximum pole spacing to maintain required light levels.

Some example football fields to do this on are as follows.

- Central Elementary - 1780 Cox St, Carrollton, TX 75006
- University of Alabama Practice Fields - 1148 Hackberry Ln, Tuscaloosa, AL 35401
- Anderson Family Football Complex - 1229 Mississippi Street, Lawrence, KS 66045

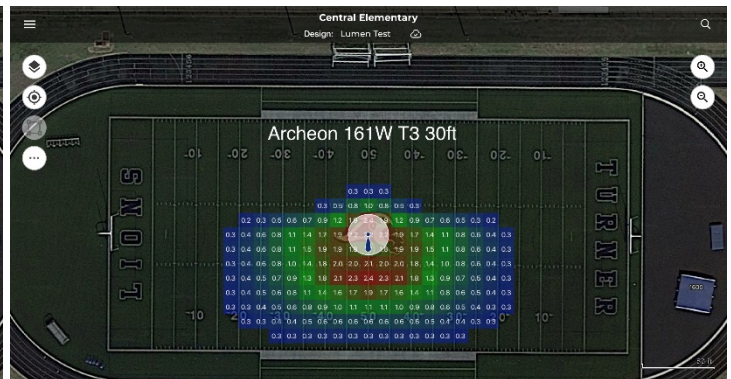
These fields are ideal due to their perfect North-South and East-West orientations. This allows for easy-to-read photometrics without the need to rotate the map or the fixture.

Below are some examples that were done on the football field at Central Elementary using the 161W Archeon with different distribution patterns, pole heights, and number of heads.



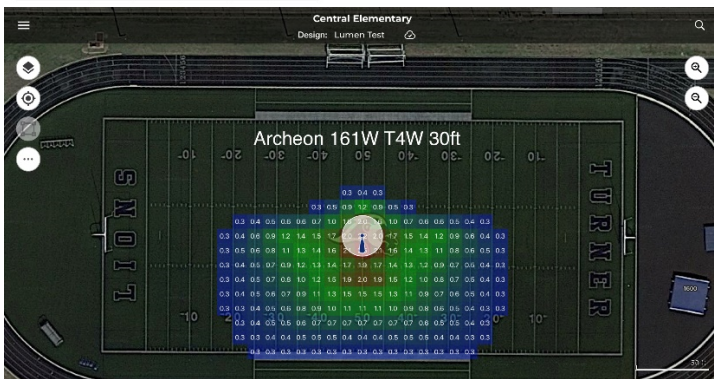
SUMMARY

Calc Type	Avg	Max	Min	Avg/Min	Max/Min
Illuminance (FC)	1.17	4.55	0.46	2.53	9.86



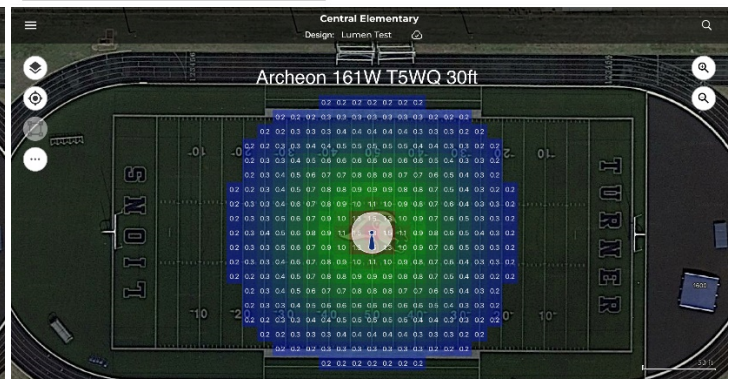
SUMMARY

Calc Type	Avg	Max	Min	Avg/Min	Max/Min
Illuminance (FC)	0.76	2.42	0.25	3.09	9.82



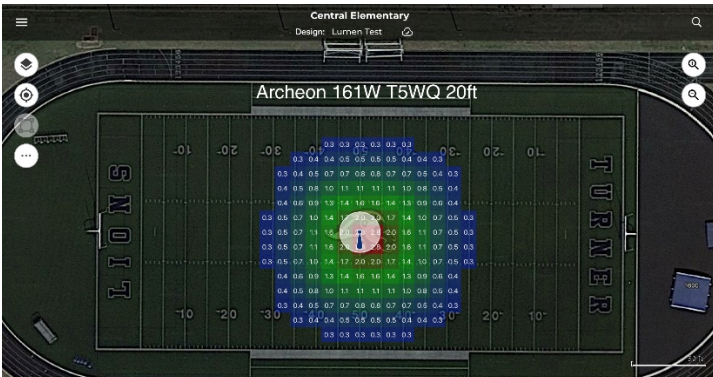
SUMMARY

Calc Type	Avg	Max	Min	Avg/Min	Max/Min
Illuminance (FC)	0.68	2.50	0.25	2.72	9.97



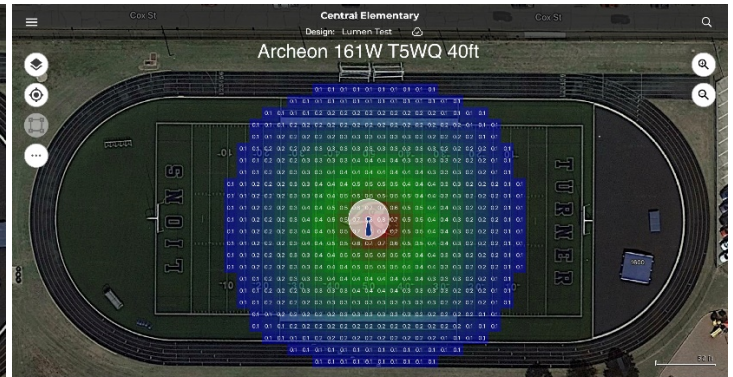
SUMMARY

Calc Type	Avg	Max	Min	Avg/Min	Max/Min
Illuminance (FC)	0.43	1.80	0.18	2.41	9.96



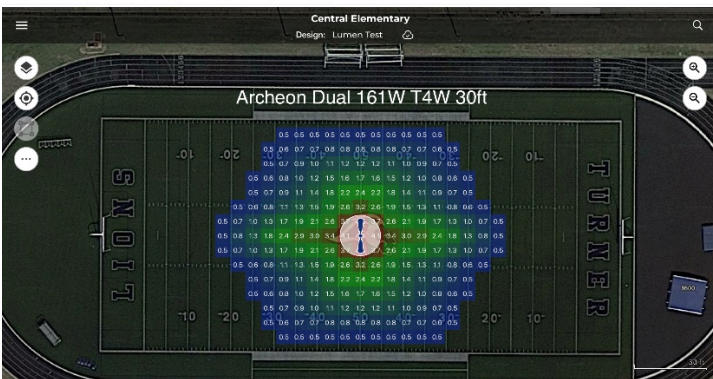
SUMMARY

Calc Type	Avg	Max	Min	Avg/Min	Max/Min
Illuminance (FC)	0.74	2.77	0.28	2.63	9.92



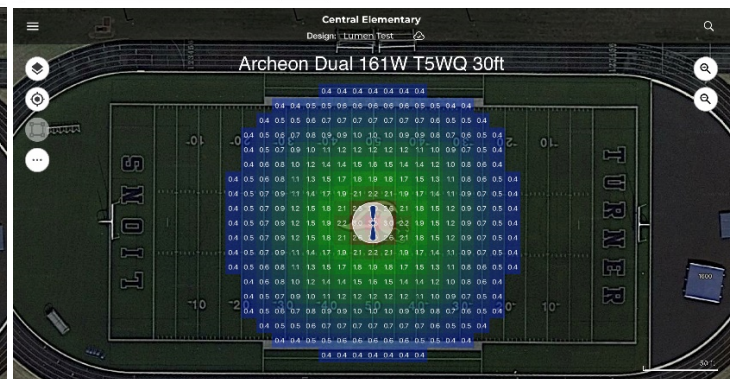
SUMMARY

Calc Type	Avg	Max	Min	Avg/Min	Max/Min
Illuminance (FC)	0.23	0.78	0.10	2.27	7.73



SUMMARY

Calc Type	Avg	Max	Min	Avg/Min	Max/Min
Illuminance (FC)	1.08	4.48	0.46	2.37	9.81



SUMMARY

Calc Type	Avg	Max	Min	Avg/Min	Max/Min
Illuminance (FC)	0.87	3.60	0.36	2.41	9.96

From the above exhibits, note the difference in distribution patterns both in shape and light levels at various points. Also note how the distribution and light levels are affected with different fixture mounting heights. Finally, reference the last two exhibits that provide a comparison of Type IV vs Type V fixtures in a back-to-back application. Note that for wide area lighting in a back-to-back application it is usually best practice to specify Type V fixtures to achieve better uniformity and coverage.

In conclusion, the Light ARchitect App is a powerful tool that has a number of incredible features and applications. If you have a particular trick that you use within the App please share. As well if there are any desired features you would like to see incorporated in upcoming versions, let us know. Keep in mind that in addition to the App, SouthCon has resources to provide complete detailed and comprehensive AGI photometric studies with typical turnaround times of 3-5 days.

Thank you for your business and please do not hesitate to reach out to SouthCon with any questions or assistance regarding your lighting needs.