

PRELIMINARY PHOTOMETRIC PLAN - 1,000-NIT NIGHTTIME

Spring Lake Park High School Stadium



CALCULATION BASIS

Display: Nevco full-color 10 mm LED video display
Luminous face: 31.5 ft W x 18.9 ft H (595.4 sq ft)
Nighttime luminance: 1,000 cd/m2 (nits)
Test image: continuous 100% full-white field
Orientation: aimed at west grandstand center (approx. N24W)
Assumed screen center: 23 ft above grade (photo-derived)
Meter height: 5 ft above grade
Distribution: uniform Lambertian emitter
Obstruction/shielding credit: none
Base map scale: 1:1,200 submitted aerial exhibit

REPRESENTATIVE RESULTS

Location	Vertical	Horizontal
West of Able St residential line	0.240 fc	0.010 fc
Northwest residential corner	0.110 fc	0.003 fc
South of 79th Ave (behind face)	0.000 fc	0.000 fc

INTERPRETATION

The calculated 0.50-foot-candle vertical contour remains on the school/stadium property under these conservative assumptions. Calculated illumination at sampled residential property lines is below the proposed 0.50-foot-candle display-attributable limit. Horizontal illumination is also below 0.50 foot-candle at the sampled residential lines.

LIMITATIONS

Planning-level calculation prepared from the submitted proposal and aerial exhibit. This is not a manufacturer-certified IES photometric study or a sealed engineering document. Actual results depend on the installed elevation, exact bearing, LED optical distribution, calibration, content, and dimming controls. Field verification should use display-on minus display-off readings with a calibrated meter, including a full-white image at the maximum authorized nighttime setting.