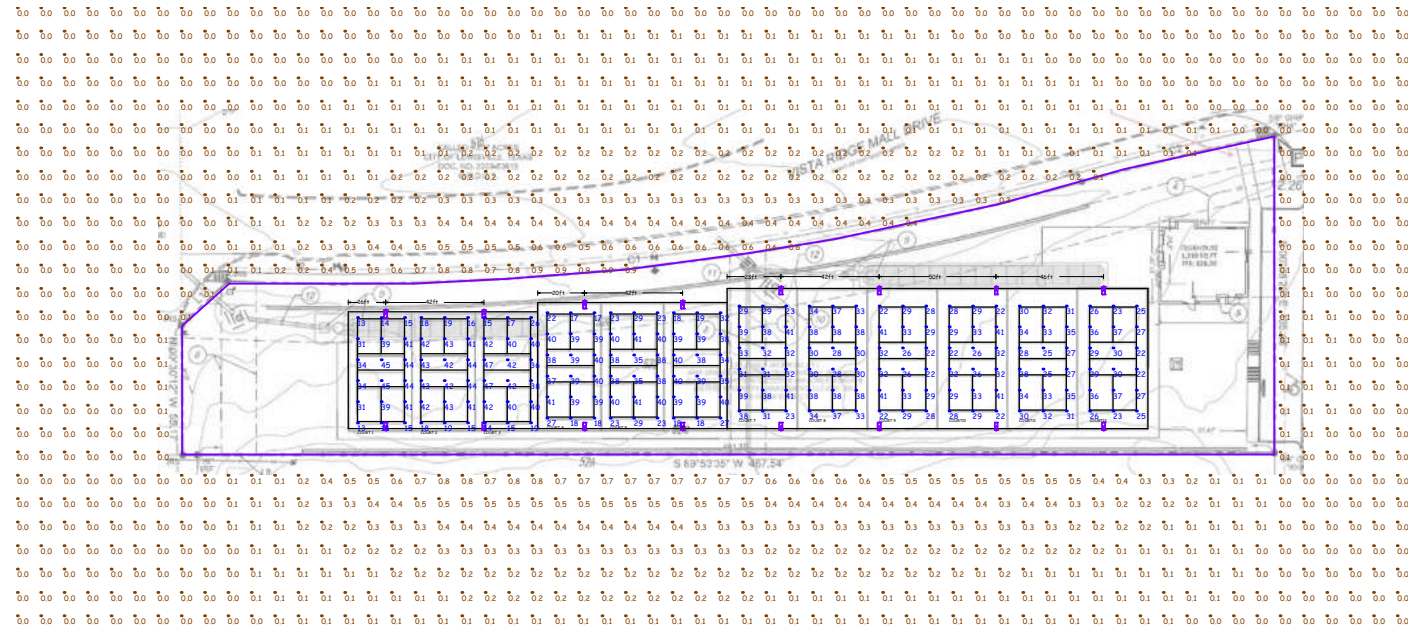




Note:
The photometric design has been developed in accordance with the USA Pickleball Association (USAPA) recommended guidelines, referencing LSI Lighting's published photometry standards. This ensures that the lighting levels, uniformity, and glare control meet industry-accepted best practices for pickleball play.

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Description	LLF	Luminaire Lumens	Luminaire Watts
	16	A2	Single	ZNL-76L-CT-50-IL (ZONE LARGE) @ 22' @ 160' HT.	0.940	44794	848

The light levels shown are maintained using a 0.8 light loss factor (LLF). Light loss factors are used to adjust the light output of a luminaire operating in a controlled laboratory environment to the output delivered under actual field conditions. The LLF used in these calculations includes both recoverable and non-recoverable factors. Recoverable factors include luminaire dirt depreciation (LDD). Non-recoverable factors include optical system variation, and depreciation in initial luminaire lumen output. The use of the light loss factor shown requires making certain assumptions about the lighting system, the specific application, and the maintenance of the system over time. Therefore, actual light levels measured in the field may vary from the calculated value, especially in regards to individual location measurements.

Calculation use a LED Maintained Lamp Luminaire based upon 50,000 hours of life, derived from IEEE TM21-10.

Based on the information provided, all dimensions and luminaire locations shown represent recommended practices. The engineer and / or architect must determine applicability of the layout to existing or future field conditions.

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Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Min/Max
COURT1	Illuminance	Fc	302.97	45	12	0.46
COURT2	Illuminance	Fc	283.7	44	10	0.39
COURT3	Illuminance	Fc	234.4	37	14	0.36
COURT4	Illuminance	Fc	32.72	41	17	0.41
COURT5	Illuminance	Fc	24.11	41	19	0.76
COURT6	Illuminance	Fc	35.89	40	18	0.72
COURT7	Illuminance	Fc	33.33	41	23	0.78
COURT8	Illuminance	Fc	24.00	38	18	0.76
COURT9	Illuminance	Fc	29.11	41	22	0.86
COURT10	Illuminance	Fc	49.31	41	22	0.86
COURT11	Illuminance	Fc	30.56	38	20	0.62
COURT12	Illuminance	Fc	28.33	37	22	0.68
SPILL	Illuminance	Fc	0.13	0.9	0.0	0.14

Photometry Variance Request for an Alternative Standard:
To allow the Pickleball playing court area to have a lighting level of a maximum of 53 foot-candles in lieu of the 20 foot-candles as limited for non-residential use Per Section VIII.7.5 of the Unified Development Code (UDC)

Project: Vistara Sports Pickleball
Location: Lewisville, TX

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Date: 6/18/2025