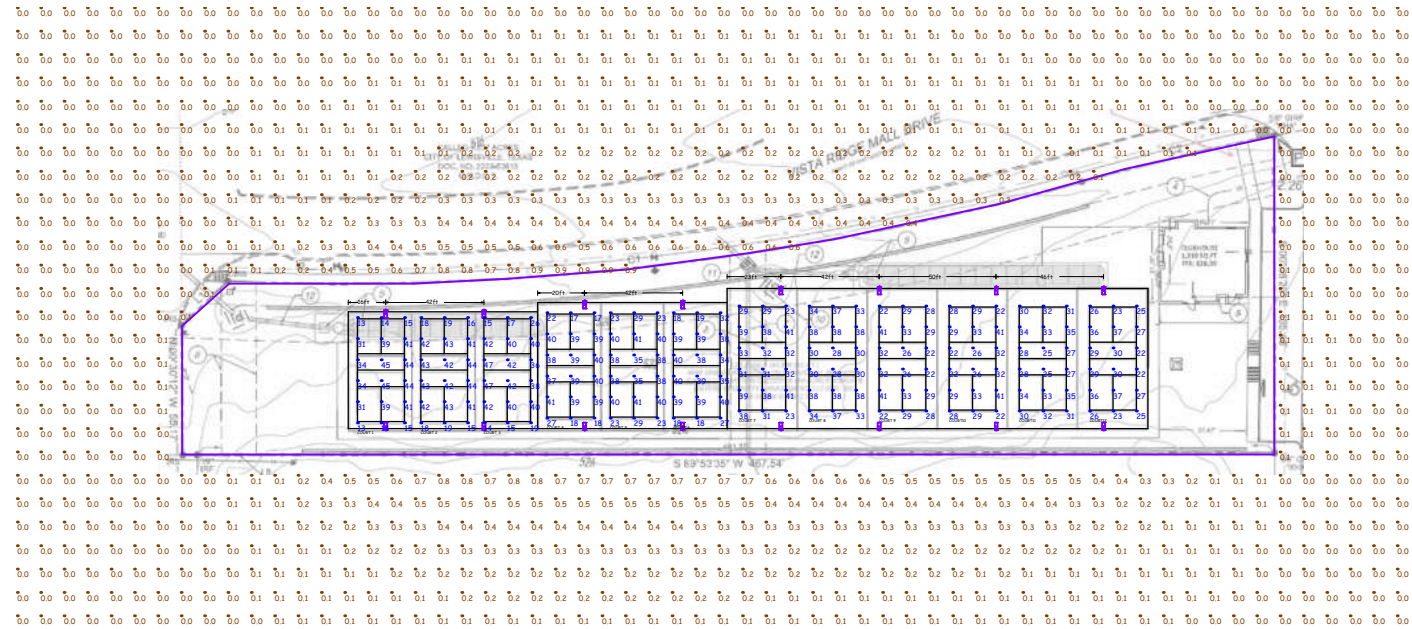




Note:
The photometric design has been developed in accordance with the USA Pickleball Association (USAPA) recommended guidelines, referencing LSI Lighting's published photometry standards. This ensures that the lighting levels, uniformity, and glare control meet industry-accepted best practices for pickleball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



Date: 06/18/2025
AARI ENGINEERING LLC
F-22358
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314, Gumtree Way, Wylie, Texas, 75098
Engineer: Saurabh Shah

Luminaire Schedule	Qty	Label	Arrangement	Description	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
16	A2	Single		2x4x76L-CT 50-51 (ZONE LARGE) @ 2' 22" 4076 LUM.	0.940	44794	848	10368

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 obtained 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 variations, 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 TM22-13.

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.

Date: 6/18/2025
Filename: VISTARA SPORTS A2I

Label	Qty	Type	Units	Avg	Max	Min	Min/Max
COURT1	16	luminaire	ft	302.97	45	12	0.46
COURT2	16	luminaire	ft	283.7	44	10	0.39
COURT3	16	luminaire	ft	234.4	37	14	0.36
COURT4	16	luminaire	ft	32.72	41	17	0.41
COURT5	16	luminaire	ft	24.11	41	19	0.76
COURT6	16	luminaire	ft	39.89	40	18	0.72
COURT7	16	luminaire	ft	33.33	41	23	0.78
COURT8	16	luminaire	ft	24.00	38	18	0.56
COURT9	16	luminaire	ft	29.11	41	22	0.86
COURT10	16	luminaire	ft	49.31	41	22	0.86
COURT11	16	luminaire	ft	30.56	38	20	0.42
COURT12	16	luminaire	ft	28.33	37	22	0.68
SPILL	16	luminaire	ft	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

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