

Feather Smash Outside Courts

AARI

AARI ENGINEERING LLC

314, Gumtree way, Wylie, Texas, 75098
engineer@aariengineering.com

Date
09/09/2025

Report
2

Registration Firm
F-22358

City of Lewisville Planning & Zoning Department
Jonathan Beckham
Senior Planner,
151 W. Church Street, Lewisville, TX 75057

Subject: Request for Approval of **Alternative Photometric Standards** – Exterior Pickleball Court Lighting

Dear Mr. Beckham,

On behalf of Feather Smash LLC, we respectfully request approval to apply an alternative lighting standard for the outdoor pickleball courts at our Phase Two development located at 400 W. Vista Ridge Mall Drive, Lewisville, TX 75067.

Variance Request:

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)

The justification for this request for variance is as per below:

The **USA Pickleball Association (USAPA)**, in collaboration with **LSI Lighting**, has published photometric guidelines recommending up to 53 foot-candles for outdoor courts. These standards are designed to optimize visibility, safety, and player experience. Relevant documentation is available at:

- [LSI Lighting Photometry Guidelines](#) (This PDF document is also attached)
- [USAPA Court Lighting Guidelines](#)

Our lighting plan has been carefully engineered to meet sport-specific performance needs while minimizing light spill into adjacent areas. We believe this approach balances recreational quality with community impact and aligns with nationally accepted standards.

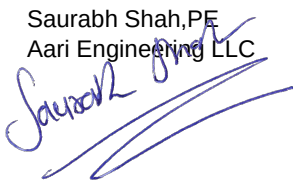
Attached for Review:

1. Completed Lewisville Alternative Standards Application Form
2. Photometric Analysis Report – *VISTARA SPORTS3 Photometry Results*
3. USAPA-endorsed LSI Lighting Guidelines

We appreciate your consideration and look forward to working collaboratively with the City of Lewisville to deliver a safe, well-lit, and professionally designed recreational facility.

Sincerely,

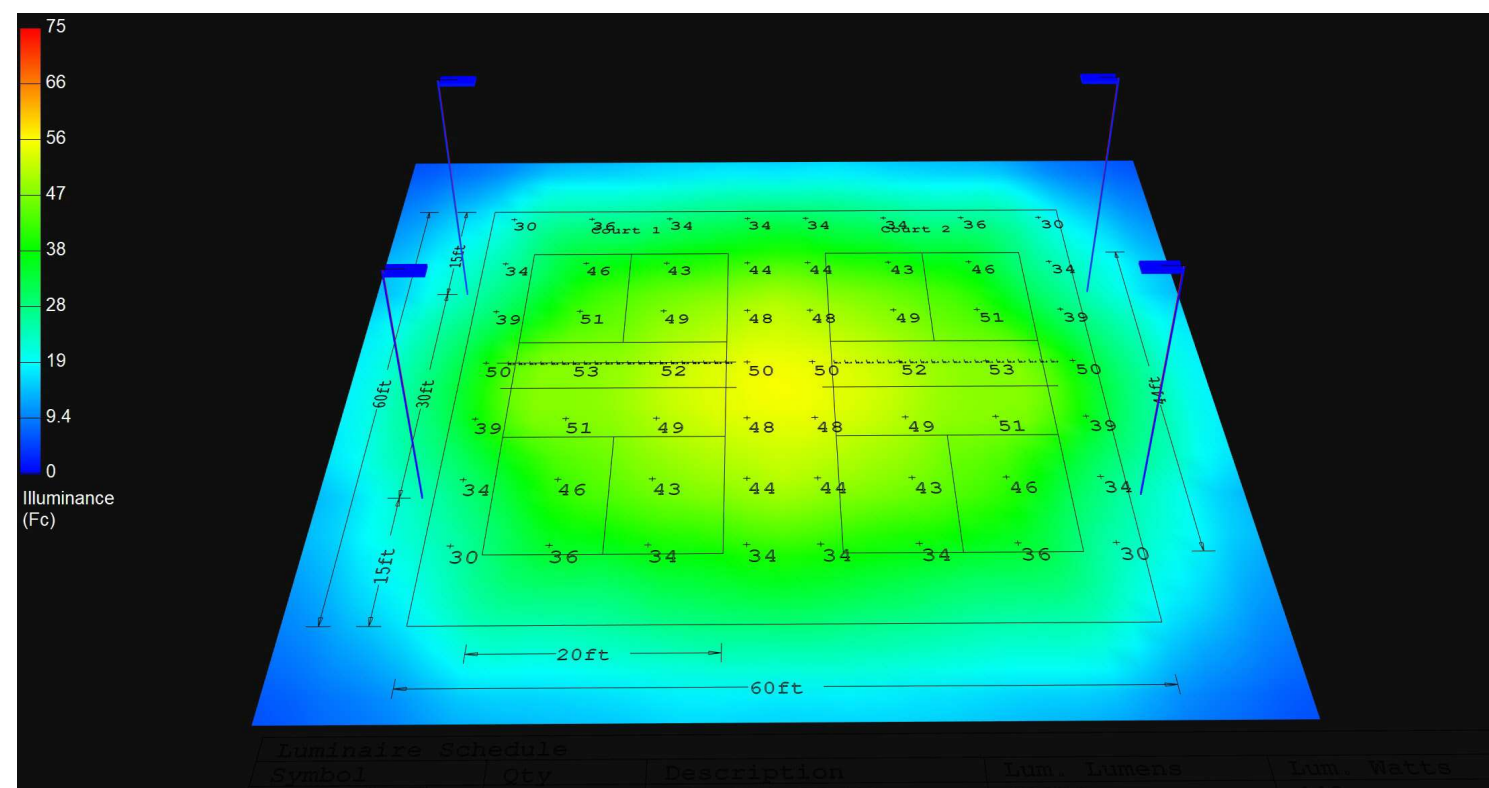
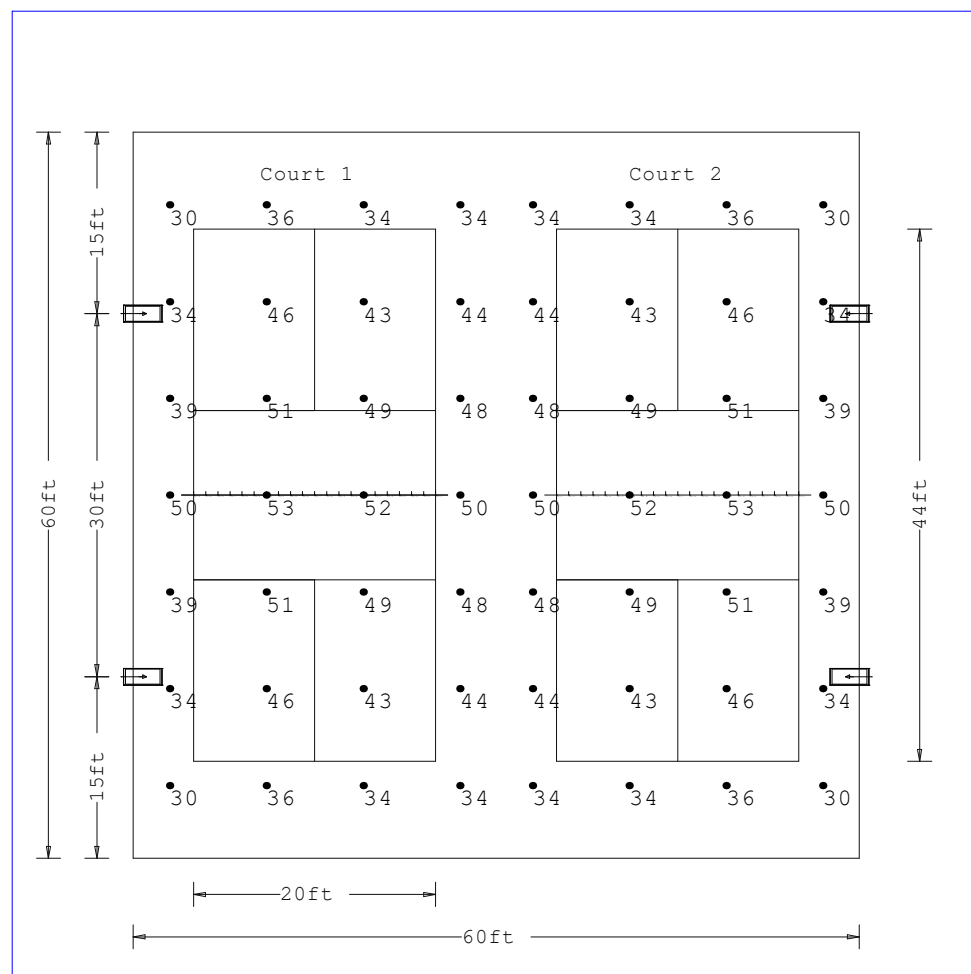
Saurabh Shah, PE
Aari Engineering LLC





Create-A-Court - Pickleball

(2) Courts (60'x60')
(4) ZNL-60L-CT-50 Fixtures
24' Mtg.Ht.
Class 3 Recreation



Luminaire Schedule							
Symbol	Qty	Description	Lum. Lumens	Lum. Watts	LER	Total Watts	LLF
	4	ZNL-60L-CT-50	60978	448	136	1792	0.970

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
01_Court 1 PPA	Illuminance	Fc	42.18	53	30	1.41	1.77
01_Court 2 PPA	Illuminance	Fc	42.18	53	30	1.41	1.77
02_Court 1 Net Vertical at 3'	Illuminance	Fc	23.13	24.0	22.5	1.03	1.07
02_Court 2 Net Vertical at 3'	Illuminance	Fc	23.12	24.0	22.5	1.03	1.07

Luminaire Location Summary						
LumNo	X	Y	Z	Orient	Tilt	
1	61	15	24	180	0	
2	-1	15	24	0	0	
3	61	45	24	180	0	
4	-1	45	24	0	0	

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine the applicability of the layout to existing or future field conditions. This lighting plan represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with The Illuminating Engineering Society (IES) approved methods. Actual performance of any manufacturer's luminaires may vary due to changes in electrical voltage, tolerance in lamps/LED's and other variable field conditions.

Calculations do not include obstructions such as buildings, curbs, landscaping, or any other architectural elements unless noted. Fixture nomenclature noted does not include mounting hardware or poles. This drawing is for photometric evaluation purposes only and should not be used as a construction document or as a final document for ordering product.