

Lighting Design Notes:

Requirements To Be Met:

- AS 2560.1-2018 Sports Lighting - General Principles
- AS 2560.2:2021 Sports Lighting - Specific Applications

Pole Mounting Height

- 4 x 8m poles.

Lux & Uniformity Requirement

- PPA 250 Lux & U1 = 0.60 & U2 = 0.30
 - TPA 150 Lux & U1 = 0.20 & U2 = 0.10
- as per the minimum requirement on table 2.11.1 - LTPs for outdoor tennis - Recreational and residential

Maintenance Factor

- The maintenance factor of 0.85 has been calculated using the lumen depreciation factor calculated from the L70 data results and the luminaire dirt depreciation factor assumed to be 0.95. This LLF is based on the fact that it is assumed the fields will be used for a total of approximately 21,400 hours, equating to just over 20 years (assuming 20 hours/week for 52 weeks a year).

Site Dimensions

- Standard site dimensions shown.

| Calculation Summary | | | | | | | |
|---------------------|-------------|-------|--------|-------|-------|------|------|
| Label | CalcType | Units | Avg | Max | Min | U-1 | U-2 |
| PPA | Illuminance | Lux | 215.79 | 248.9 | 165.3 | 0.77 | 0.66 |
| TPA | Illuminance | Lux | 189.43 | 257.6 | 50.2 | 0.27 | 0.19 |

| Luminaire Location Summary | | | |
|----------------------------|--------------|------|-----------------|
| LumNo | Label | Tilt | Mounting Height |
| 1 | IWE-TCL-240W | 0 | 8 |
| 2 | IWE-TCL-240W | 0 | 8 |
| 3 | IWE-TCL-240W | 0 | 8 |
| 4 | IWE-TCL-240W | 0 | 8 |

| Luminaire Schedule | | | |
|--------------------|--------------|-------|-------------|
| Qty | Label | LLF | Description |
| 4 | IWE-TCL-240W | 0.850 | |

Lighting Design Prediction

Site - TCL Sample Design
Recreational and residential

| Rev | Description | Designer | Date | Rev | Description | Designer | Date |
|-----|-------------|----------|------|-----|-------------|----------|------|
| | | | | | | | |

This design calculation is based upon specified parameters supplied by the client, and other design inputs assumed by us, as detailed in this document.

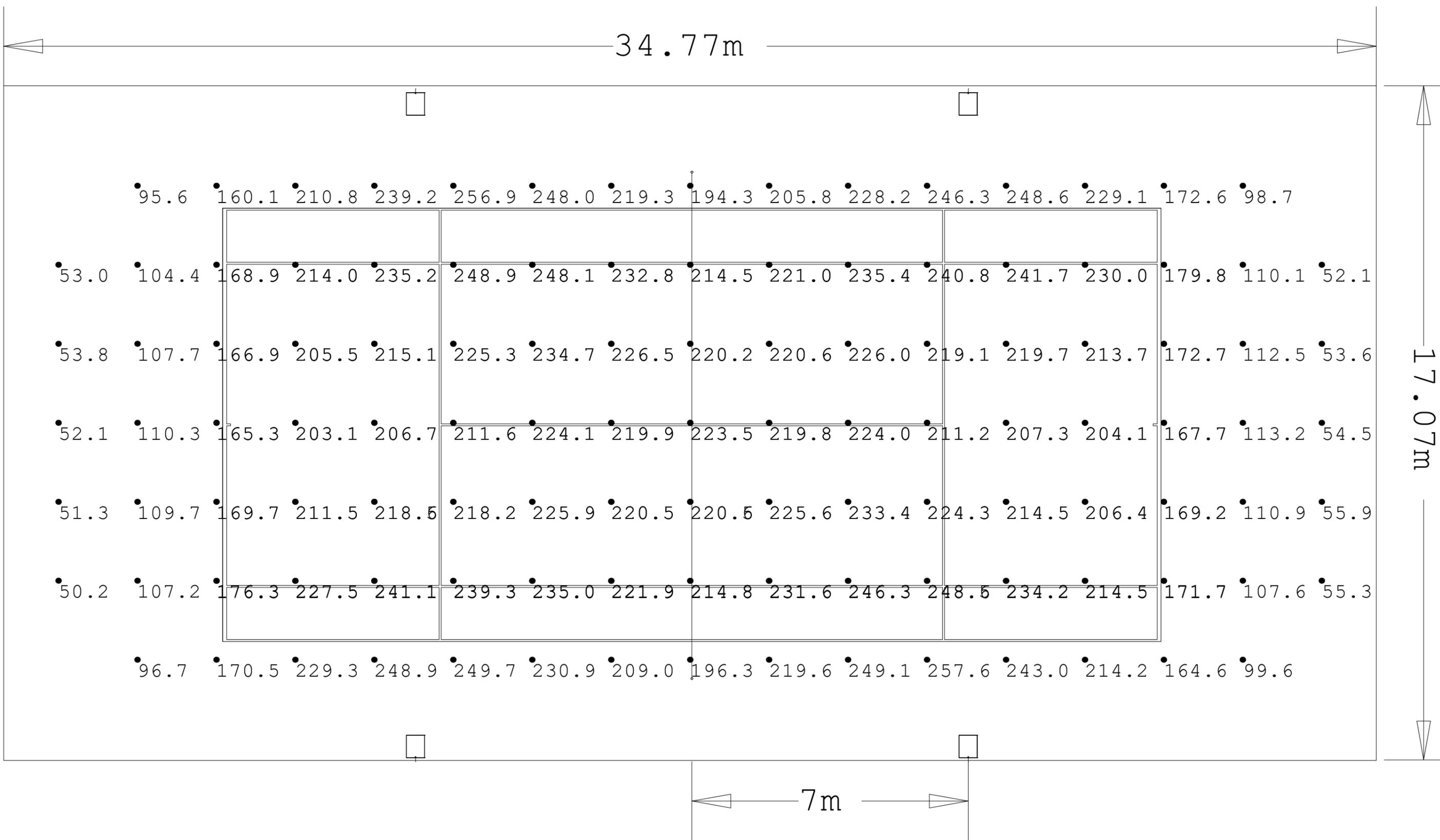
- In practice, the accuracy of the values may differ due to environmental variations such as actual luminaire positioning, surface reflectance supply voltage, local luminaire ambient temperature, obstacles, etc. These results are also subject to normally accepted photometric tolerances and calculation/program uncertainties.

- IWE provides this calculation "as is" without any representation or warranty of any kind.

- The Company shall be under no liability to the Customer for failure to attain such performance figures unless the performance of the Goods supplied is specifically guaranteed in writing, and any such written guarantee shall be subject to recognised manufacturing variations and tolerances applicable to goods.

- It is strongly recommended that an IWE aiming device is used to achieve the desired output lux and uniformity as shown in this design. These are available for lease or purchase from IWE Group.





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Recreational and residential

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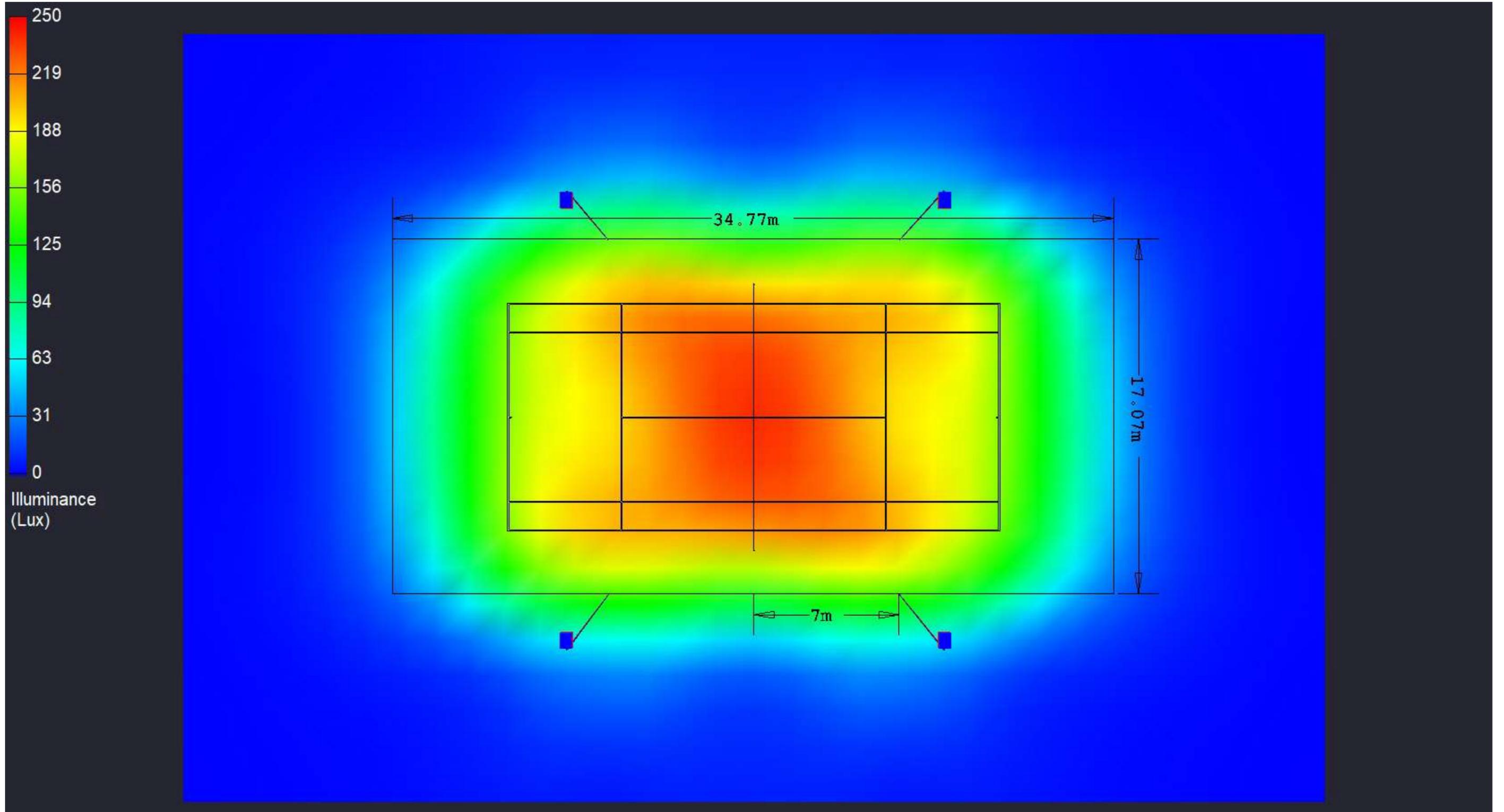
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