



# Lighting Calculation Study

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**Prepared For :** Wayne Campbell / Cornel Campbell @ MHBC

**Filename:** Barrie Subdivision - Loon Lands - r3 - April 26-2023.AGI

**By :** LIAS-CA

**Units:** Feet

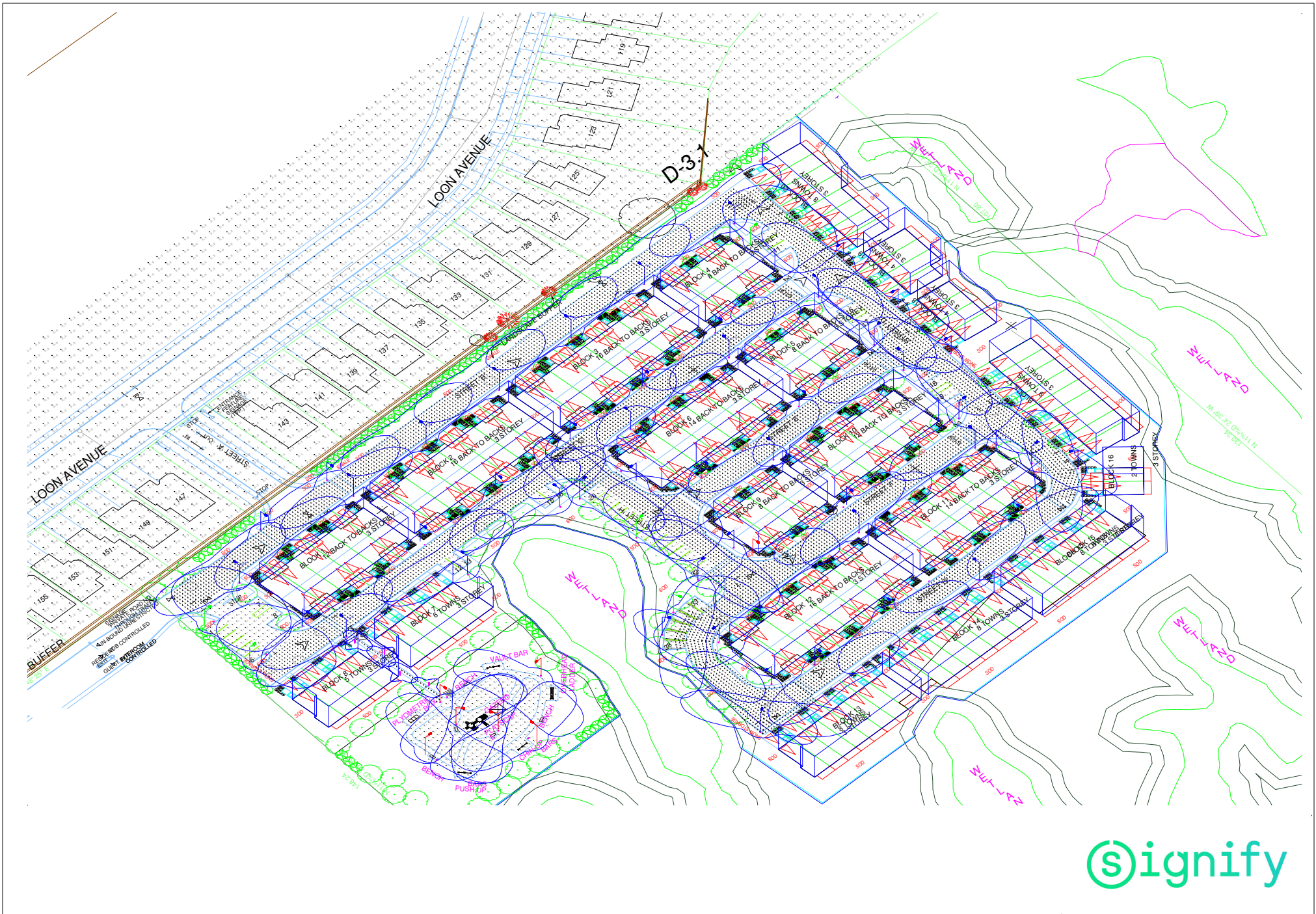
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# Results summary

## Luminaire Schedule

| Symbol                                                                            | Qty | Label | Arrangement | LLF   | Description                | Lum. Watts | Lum. Lumens | (MANUFAC)        | BUG Rating | Arm |
|-----------------------------------------------------------------------------------|-----|-------|-------------|-------|----------------------------|------------|-------------|------------------|------------|-----|
|  | 4   | B     | Single      | 0.850 | PBL-42-14L-100-WW-G2-3-UNV | 6.1        | 492         | Lumec by Signify | B0-U0-G0   | 0   |
|  | 47  | P1    | SINGLE      | 0.850 | RFS-25W12LED3K-G2-R2M-HS   | 24.9       | 2404        | Lumec by Signify | B0-U0-G1   | 6.5 |
|  | 7   | P2    | SINGLE      | 0.850 | RFS-25W12LED3K-G2-R3M-HS   | 24.9       | 2303        | Lumec by Signify | B0-U0-G1   | 6.5 |
|  | 5   | P3    | SINGLE      | 0.850 | RFS-25W12LED3K-G2-4-HS     | 24.9       | 2425        | Lumec by Signify | B0-U0-G1   | 6.5 |

## Calculation Summary

| Label           | CalcType    | Units | Avg   | Max  | Min  | Avg/Min | Max/Min |
|-----------------|-------------|-------|-------|------|------|---------|---------|
| PARKING 1-8     | Illuminance | Lux   | 6.08  | 11.0 | 1.4  | 4.34    | 7.86    |
| PARKING 12 + 13 | Illuminance | Lux   | 13.10 | 16.7 | 10.3 | 1.27    | 1.62    |
| PARKING 15 + 16 | Illuminance | Lux   | 15.58 | 17.7 | 13.8 | 1.13    | 1.28    |
| PARKING 16 + 17 | Illuminance | Lux   | 8.90  | 14.7 | 3.5  | 2.54    | 4.20    |
| PARKING 18 + 19 | Illuminance | Lux   | 6.36  | 9.9  | 1.7  | 3.74    | 5.82    |
| PARKING 33-38   | Illuminance | Lux   | 16.08 | 25.3 | 8.4  | 1.91    | 3.01    |
| PARKING 9 + 11  | Illuminance | Lux   | 8.89  | 10.8 | 6.2  | 1.43    | 1.74    |
| PATHWAY TO PARK | Illuminance | Lux   | 13.95 | 58.2 | 1.4  | 9.96    | 41.57   |
| PLAY AREA       | Illuminance | Lux   | 10.10 | 25.6 | 2.4  | 4.21    | 10.67   |
| STREET D        | Illuminance | Lux   | 11.17 | 23.1 | 2.2  | 5.08    | 10.50   |





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|---------------------|-------------|-------|-------|------|-----|---------|---------|
| Label               | CalcType    | Units | Avg   | Max  | Min | Avg/Min | Max/Min |
| STREET E            | Illuminance | Lux   | 10.40 | 20.7 | 2.1 | 4.95    | 9.86    |
| STREET F            | Illuminance | Lux   | 8.99  | 24.3 | 2.3 | 3.91    | 10.57   |
| STREET F + G        | Illuminance | Lux   | 10.87 | 24.8 | 1.4 | 7.76    | 17.71   |
| STREET G            | Illuminance | Lux   | 8.77  | 17.9 | 2.4 | 3.65    | 7.46    |
| STREET H            | Illuminance | Lux   | 12.23 | 19.3 | 2.5 | 4.89    | 7.72    |
| STREET H PARKING    | Illuminance | Lux   | 10.40 | 17.5 | 2.8 | 3.71    | 6.25    |
| LIGHTSPILL          | Illuminance | Lux   | 0.00  | 0.1  | 0.0 | N.A.    | N.A.    |
| STREET B            | Illuminance | Lux   | 9.30  | 27.0 | 2.9 | 3.21    | 9.31    |
| STREET C            | Illuminance | Lux   | 11.63 | 26.4 | 2.5 | 4.65    | 10.56   |



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# Results summary

| Luminaire Location Summary |       |          |          |     |         |      |
|----------------------------|-------|----------|----------|-----|---------|------|
| LumNo                      | Label | X        | Y        | Z   | Orient  | Tilt |
| 1                          | B     | 2101.098 | 1688.582 | 3.5 | 0       | 0    |
| 2                          | B     | 2109     | 1611.75  | 3.5 | 180     | 0    |
| 3                          | B     | 2101.098 | 1636.832 | 3.5 | 0       | 0    |
| 4                          | B     | 2109     | 1662.5   | 3.5 | 180     | 0    |
| 5                          | P1    | 2083.763 | 1802.713 | 20  | 90      | 0    |
| 6                          | P1    | 2219.11  | 1807.891 | 20  | 90      | 0    |
| 7                          | P1    | 2217.033 | 1836.256 | 20  | 270     | 0    |
| 8                          | P1    | 2139.174 | 1834.073 | 20  | 270     | 0    |
| 9                          | P1    | 2303.229 | 1809.204 | 20  | 90      | 0    |
| 10                         | P1    | 2388.091 | 1810.378 | 20  | 90      | 0    |
| 11                         | P1    | 2471.632 | 1811.726 | 20  | 90      | 0    |
| 12                         | P1    | 2556.286 | 1812.705 | 20  | 90      | 0    |
| 13                         | P1    | 2656.71  | 1809.683 | 20  | 90      | 0    |
| 14                         | P1    | 2084.754 | 1731.626 | 20  | 270     | 0    |
| 15                         | P1    | 2328.57  | 1681.984 | 20  | 90      | 0    |
| 16                         | P1    | 2345.98  | 1676.453 | 20  | 0       | 0    |
| 17                         | P1    | 2348.113 | 1543.41  | 20  | 0       | 0    |
| 18                         | P1    | 2283.392 | 1519.396 | 20  | 308.847 | 0    |
| 19                         | P1    | 2394.676 | 1548.86  | 20  | 180     | 0    |
| 20                         | P1    | 2261.034 | 1384.801 | 20  | 33.439  | 0    |
| 21                         | P1    | 2309.956 | 1481.116 | 20  | 180     | 0    |
| 22                         | P1    | 2305.88  | 1417.161 | 20  | 180     | 0    |
| 23                         | P1    | 2346.138 | 1408.242 | 20  | 270     | 0    |
| 24                         | P1    | 2478.772 | 1489.639 | 20  | 90      | 0    |
| 25                         | P1    | 2389.274 | 1730.674 | 20  | 270     | 0    |



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| 26                         | P1    | 2473.063 | 1731.81  | 20 | 270     | 0    |
| 27                         | P1    | 2557.42  | 1732.662 | 20 | 270     | 0    |
| 28                         | P1    | 2431.344 | 1703.42  | 20 | 90      | 0    |
| 29                         | P1    | 2545.574 | 1705.262 | 20 | 90      | 0    |
| 30                         | P1    | 2488.131 | 1597.08  | 20 | 90      | 0    |
| 31                         | P1    | 2433.093 | 1624.518 | 20 | 270     | 0    |
| 32                         | P1    | 2508.659 | 1382.167 | 20 | 90      | 0    |
| 33                         | P1    | 2632.766 | 1446.707 | 20 | 0       | 0    |
| 34                         | P1    | 2645.661 | 1702.966 | 20 | 85.135  | 0    |
| 35                         | P1    | 2638.842 | 1632.57  | 20 | 5.459   | 0    |
| 36                         | P1    | 2689.869 | 1718.634 | 20 | 174.485 | 0    |
| 37                         | P1    | 2627.555 | 1524.441 | 20 | 357.273 | 0    |
| 38                         | P1    | 2675.995 | 1581.817 | 20 | 175.721 | 0    |
| 39                         | P1    | 2683.52  | 1650.009 | 20 | 173.462 | 0    |
| 40                         | P1    | 2655.538 | 1416.424 | 20 | 143.808 | 0    |
| 41                         | P1    | 2546.347 | 1626.126 | 20 | 270     | 0    |
| 42                         | P1    | 2635.08  | 1595.455 | 20 | 90.374  | 0    |
| 43                         | P1    | 2304.188 | 1730.828 | 20 | 270     | 0    |
| 44                         | P1    | 2221.533 | 1680.123 | 20 | 90      | 0    |
| 45                         | P1    | 2101.266 | 1698.297 | 20 | 90      | 0    |
| 46                         | P1    | 2613.126 | 1491.668 | 20 | 90      | 0    |
| 47                         | P1    | 2427.273 | 1410.026 | 20 | 270     | 0    |
| 48                         | P1    | 2577.034 | 1411.918 | 20 | 270     | 0    |
| 49                         | P1    | 2393.25  | 1658.925 | 20 | 180     | 0    |
| 50                         | P1    | 2493.831 | 1519.162 | 20 | 270     | 0    |



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| 51                         | P1    | 2220.493 | 1733.218 | 20 | 270     | 0    |
| 52                         | P2    | 2181.288 | 1555.7   | 20 | 182.745 | 0    |
| 53                         | P2    | 2092.641 | 1564.294 | 20 | 304.045 | 0    |
| 54                         | P2    | 2112.089 | 1535.574 | 20 | 123.486 | 0    |
| 55                         | P2    | 2124.007 | 1503.265 | 20 | 90      | 0    |
| 56                         | P2    | 2102.106 | 1592.145 | 20 | 270     | 0    |
| 57                         | P2    | 2050.746 | 1557.623 | 20 | 0       | 0    |
| 58                         | P3    | 2648.268 | 1783.701 | 20 | 353.851 | 0    |
| 59                         | P2    | 2398.525 | 1531.096 | 20 | 270     | 0    |
| 60                         | P3    | 2027.357 | 1786.427 | 20 | 0       | 0    |
| 61                         | P3    | 2023.196 | 1730.845 | 20 | 0       | 0    |
| 62                         | P3    | 2347.302 | 1612.956 | 20 | 0       | 0    |
| 63                         | P3    | 2308.057 | 1531.278 | 20 | 291.802 | 0    |



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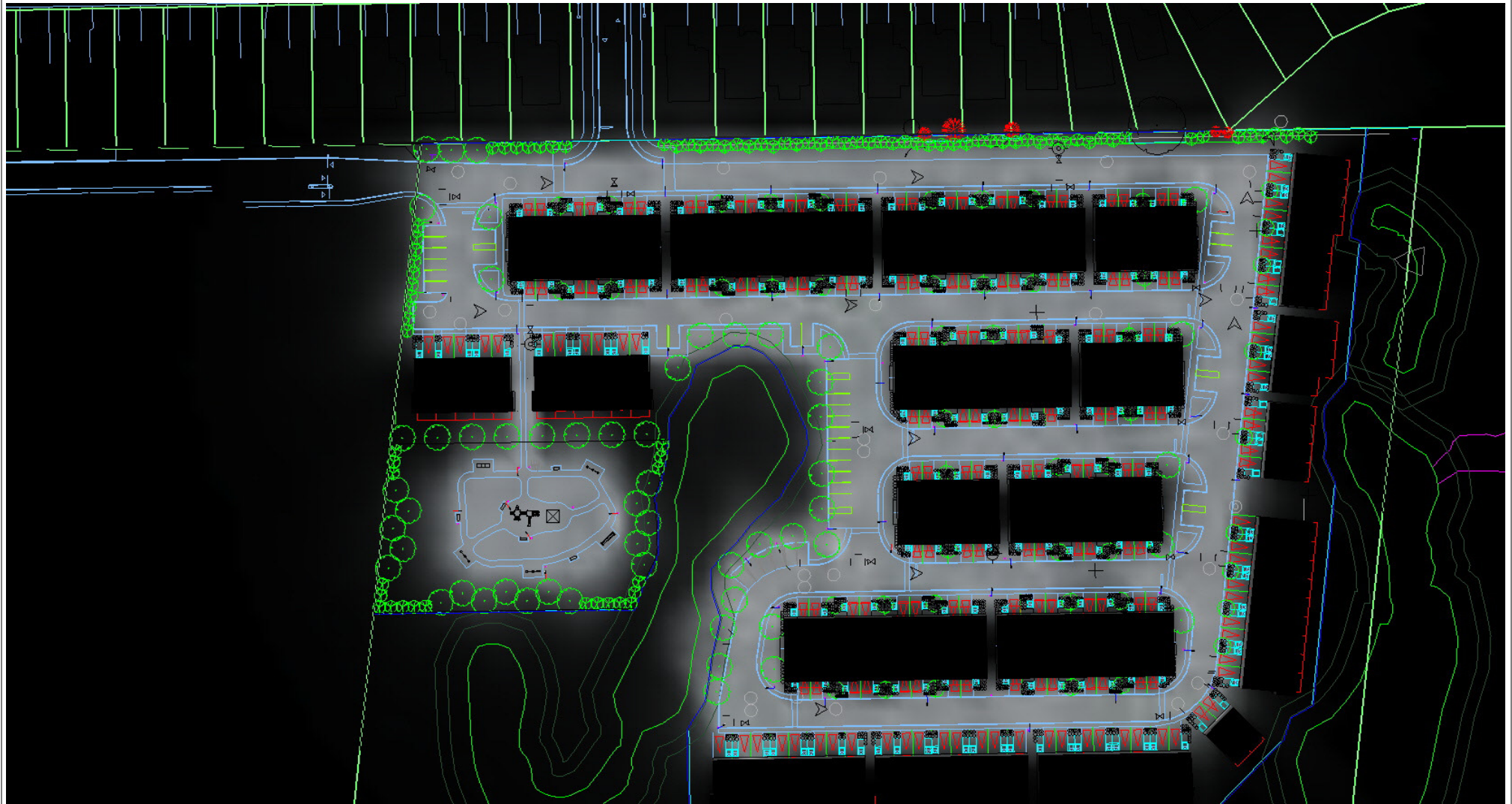
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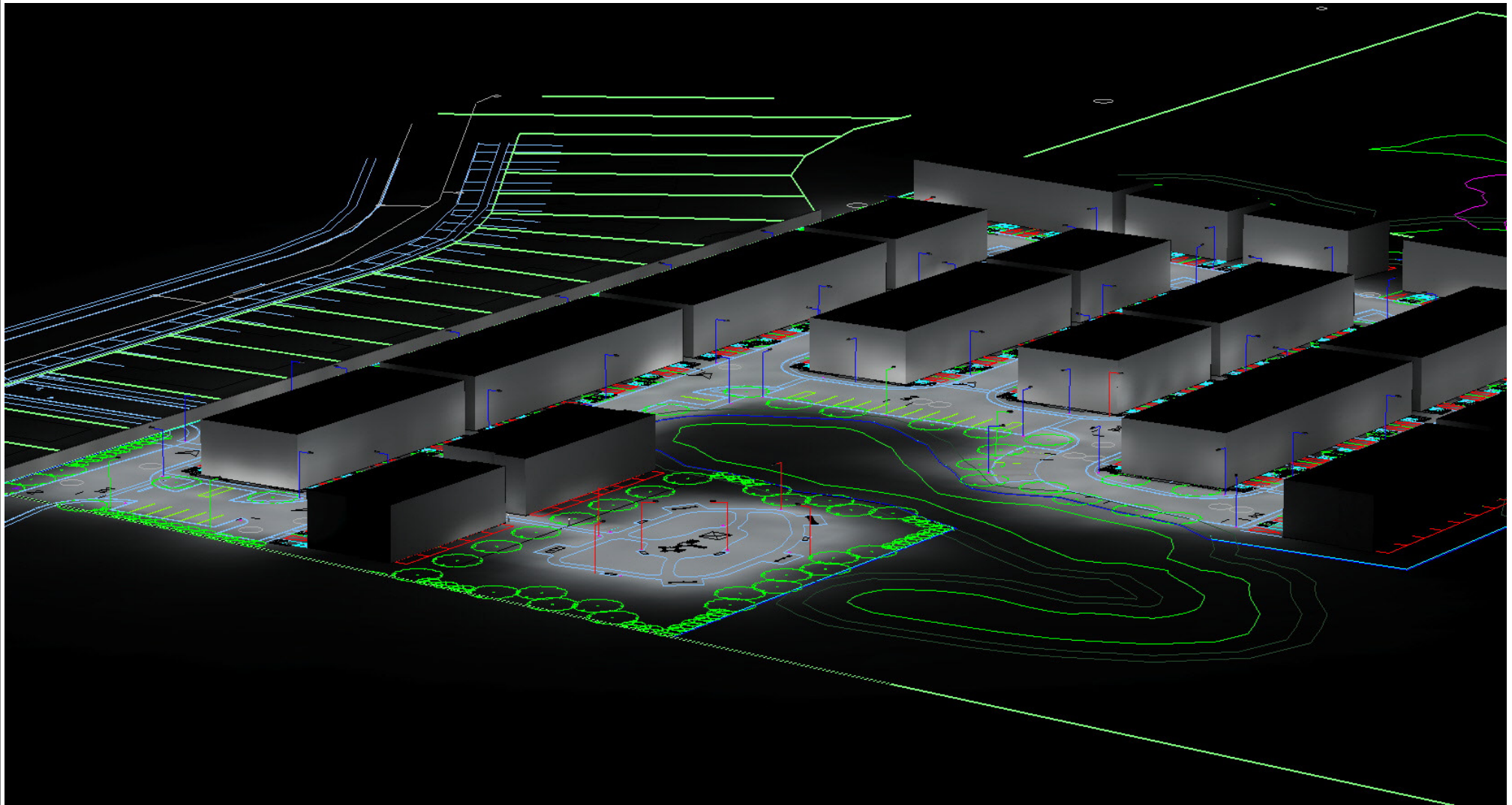
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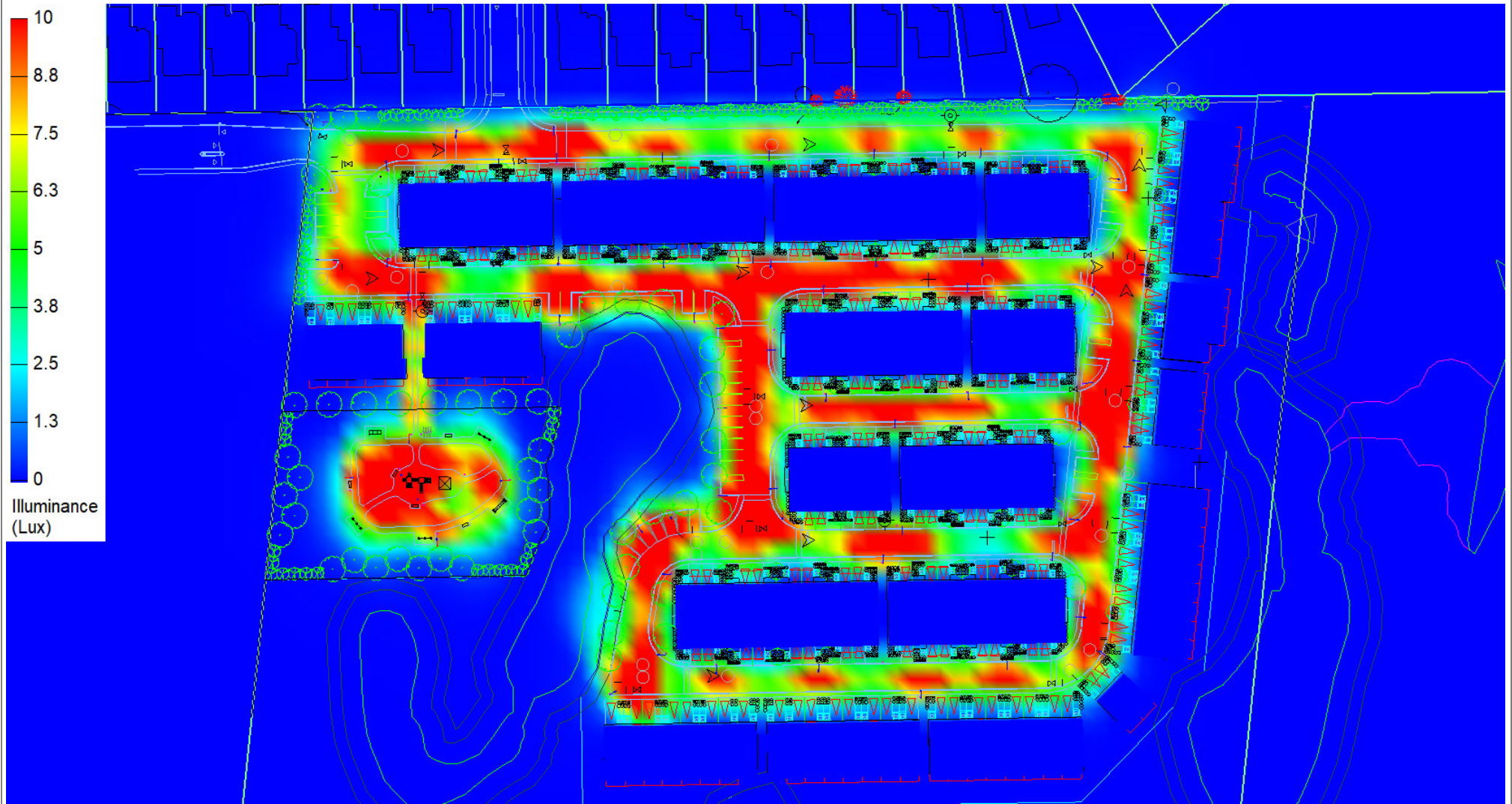
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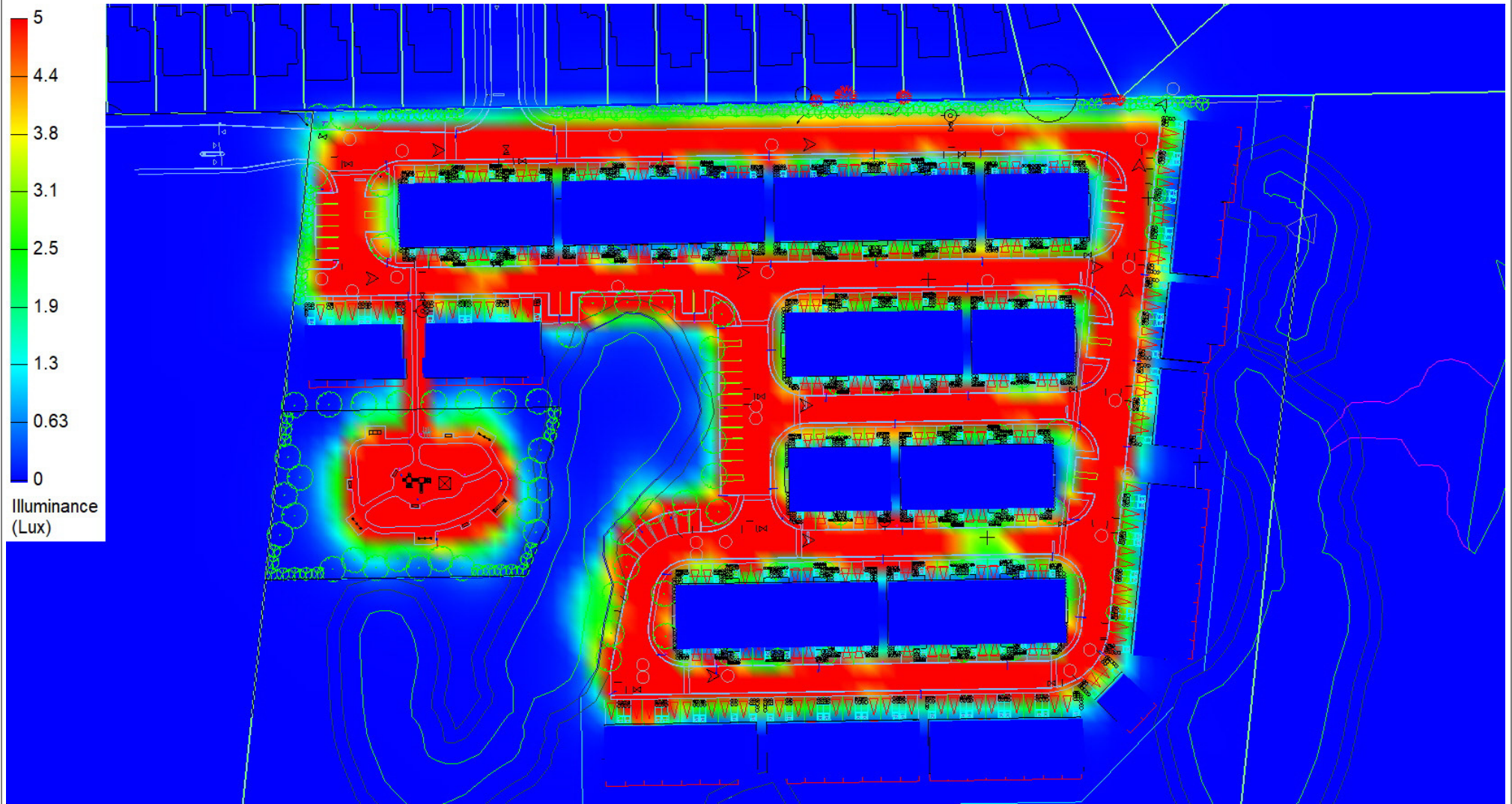
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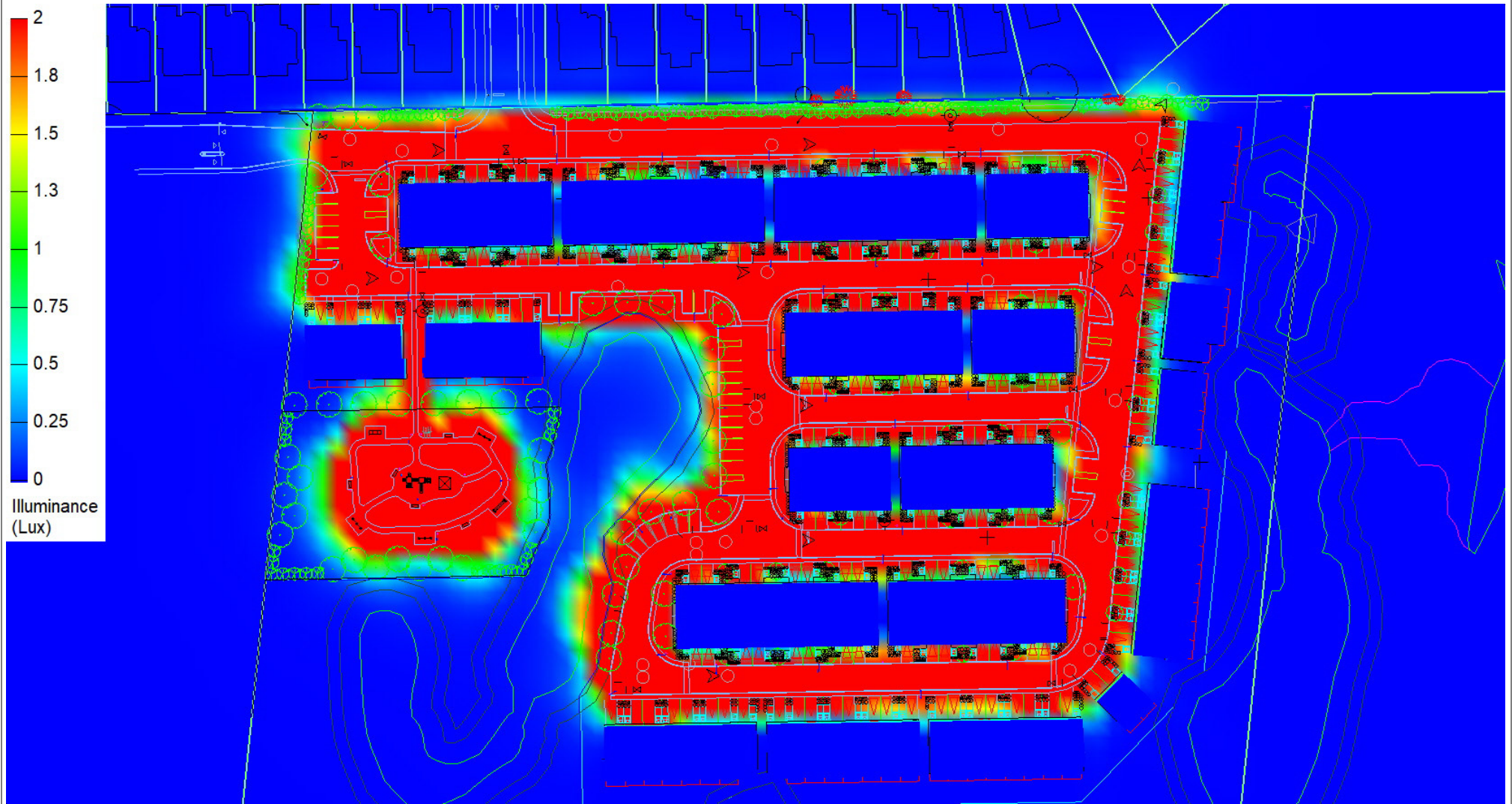
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