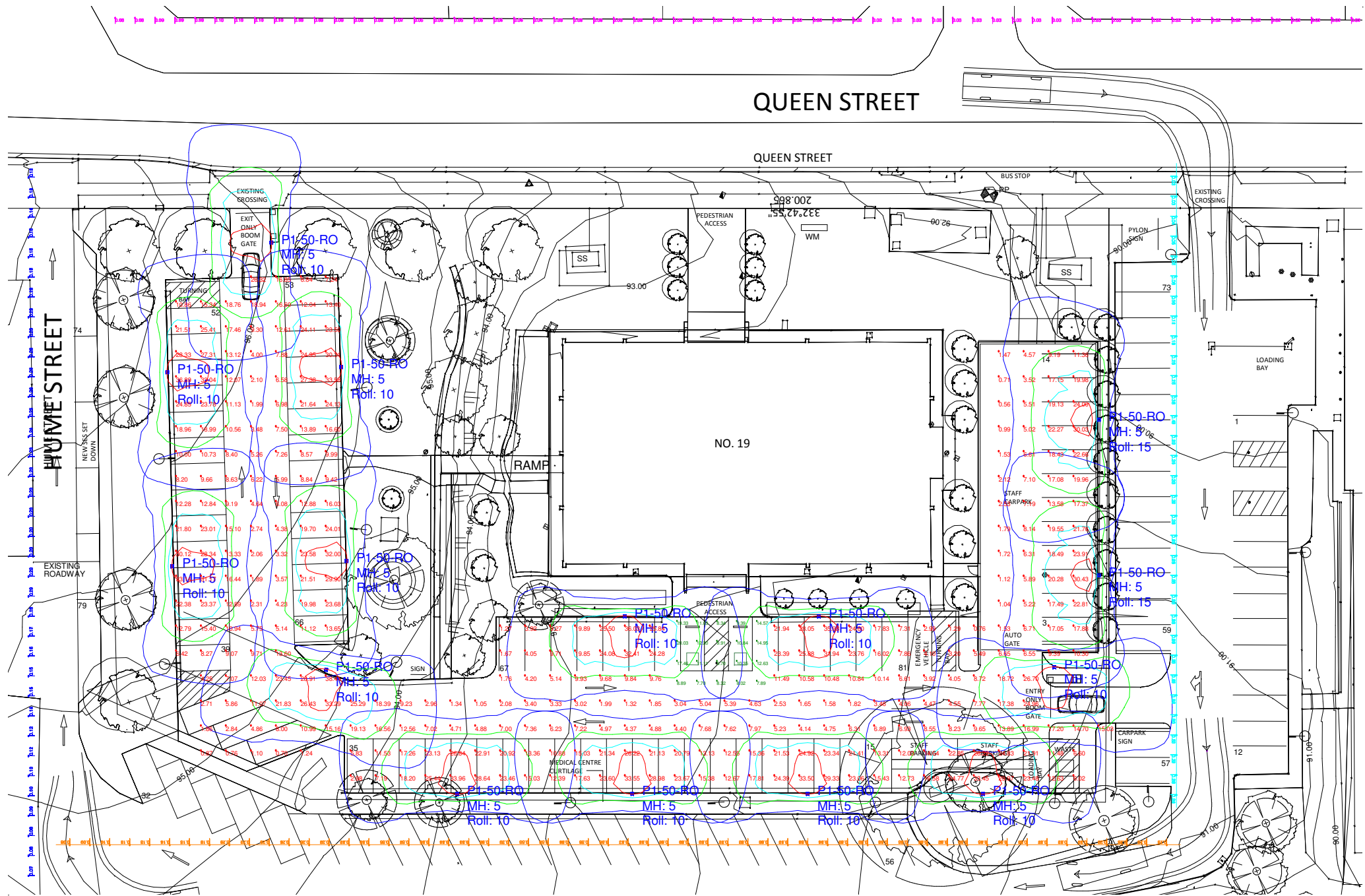




AS 1158.3.1-2005 LIGHTING FOR ROADS AND PUBLIC SPACES  
TABLE 2.5 (LIGHTING CATEGORIES FOR OUTDOOR CARPARKS)

2.5.2 LIGHTING PERFORMANCE PARAMETERS:-  
P11C = PARKING SPACES, AISLES AND CIRCULATION ROADWAYS  
- LOW NIGHT TIME PEDESTRIAN MOVEMENTS & LOW RISK OF CRIME  
Eh = 3.5 lux (average horizontal illuminance)  
Ue2 = 10 (illuminance horizontal uniformity category P)

P12 = DESIGNATED PARKING SPACES SPECIFICALLY INTENDED FOR PEOPLE WITH DISABILITIES:-  
EPH = POINT HORIZONTAL ILLUMINANCE - SHALL BE DETERMINED FOR EACH P12 AREA IN THE CAR PARK AND, IN EACH CASE, IT SHALL BE GREATER THAN THE VALUE STATED AND GREATER THAN THE AVERAGE FOR THE OVERALL CARPARK.

AS 4282 CONTROL OF THE OBTRUSIVE EFFECTS OF OUTDOOR LIGHTING  
= MAXIMUM POINT LUX READING OF 2 lux.

Coefficient of Variation (CV) is a metric used to measure uniformity in lighting applications.  
CV is defined as the ratio of the standard deviation of all values to the mean (average) value.

LIGHTING CALCULATION PLAN  
Scale= 1: 500

| Luminaire Schedule |          |                                                |     |             |             |       |
|--------------------|----------|------------------------------------------------|-----|-------------|-------------|-------|
| Symbol             | Tag      | Description                                    | Qty | Lum. Lumens | Total Watts | LLF   |
|                    | P1-50-RO | 6641994 MINI FLUT ROAD OPTICS 50W 4210LM 4000K | 15  | 4208        | 780         | 0.700 |

| Calculation Summary                       |                 |             |       |       |       |      |       |      |  |
|-------------------------------------------|-----------------|-------------|-------|-------|-------|------|-------|------|--|
| Label                                     | CalcType        | Description | Units | Avg   | Max   | Min  | # Pts | CV   |  |
| CARPARK Top (P11C)                        | Illuminance     | (red)       | Lux   | 13.54 | 38.41 | 0.56 | 351   | 0.69 |  |
| DISABLED PARKING SPACES (P12)             | Illuminance     | (green)     | Lux   | 11.63 | 20.03 | 7.70 | 20    | 0.32 |  |
| EAST PERIMETER III_Seg1                   | Obtrusive Light | (orange)    | Lux   | 0.48  | 1.52  | 0.08 | 280   | N.A. |  |
| NORTH PERIMETER III_Seg1                  | Obtrusive Light | (cyan)      | Lux   | 0.28  | 1.62  | 0.02 | 160   | N.A. |  |
| ObtrusiveLight Calc Hume St 10m III_Seg1  | Obtrusive Light | (blue)      | Lux   | 0.17  | 0.28  | 0.07 | 180   | N.A. |  |
| ObtrusiveLight Calc Queen St 10m III_Seg1 | Obtrusive Light | (magenta)   | Lux   | 0.04  | 0.11  | 0.01 | 335   | N.A. |  |



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PHC NARELLAN - CARPARK

INLITE LIGHTING CALCULATION

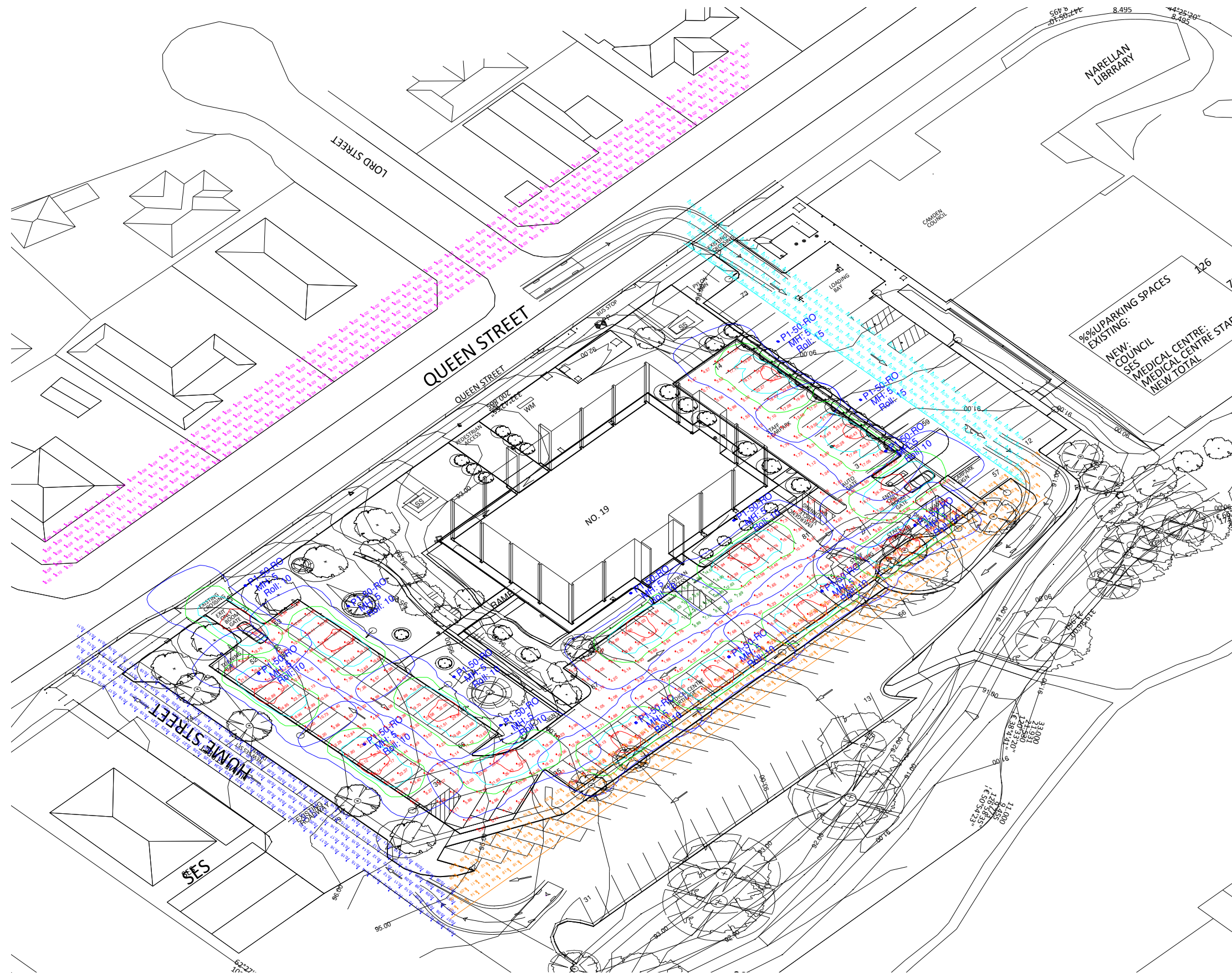
REV A

Date:7/15/2016  
Scale: 1:500 @A3  
Page 1 of 5

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DESIGN NOTES:  
REFLECTANCES: GRASS = 0.22, ASPHALT = 0.04, CNCRETE PATHS & KRBS = 0.22, BUILDING = 0.73

CALCULATION PLANE HIGHT: GROUND = 0M (RED), DISABLED CAR PARKING SPACES = 0M (GREEN)



LIGHTING CALCULATION AXO

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INLITE LIGHTING CALCULATION

REV A

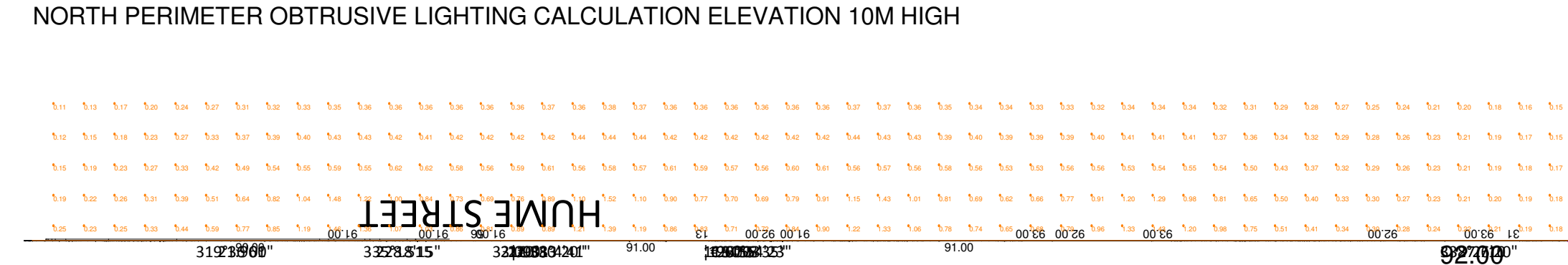
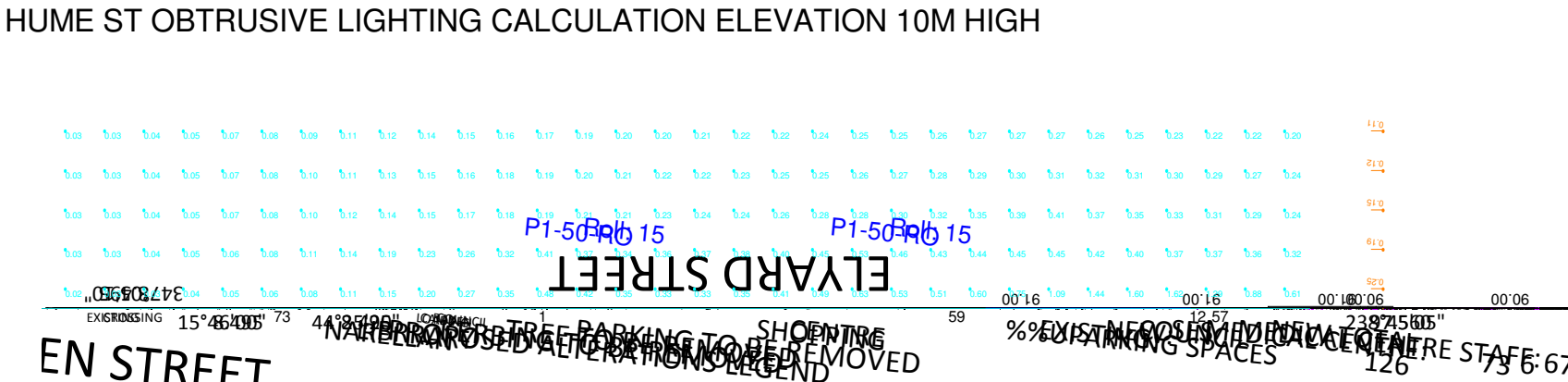
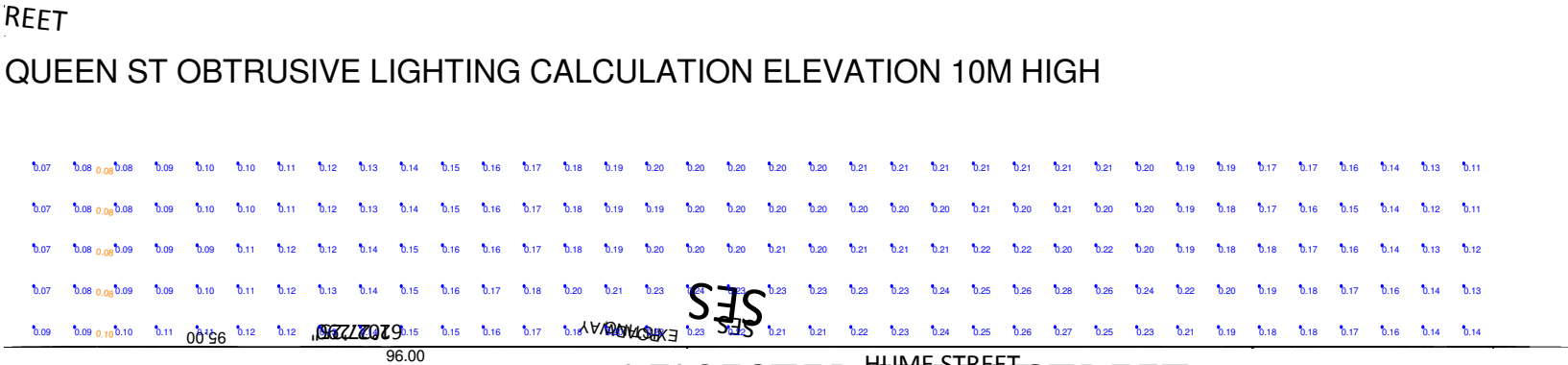
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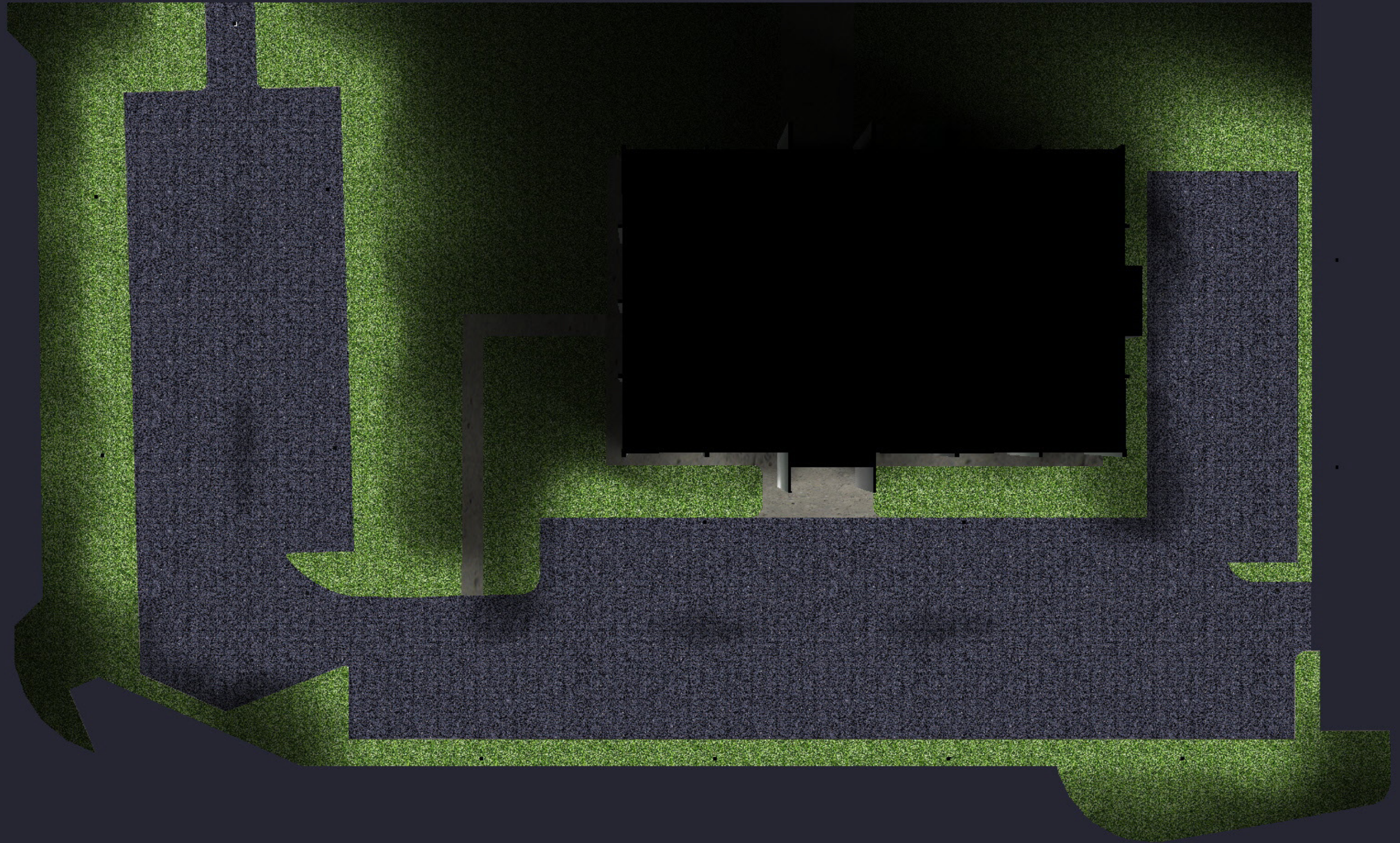
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EAST PERIMETER OBTRUSIVE LIGHTING CALCULATION ELEVATION 10M HIGH



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INLITE LIGHTING CALCULATION

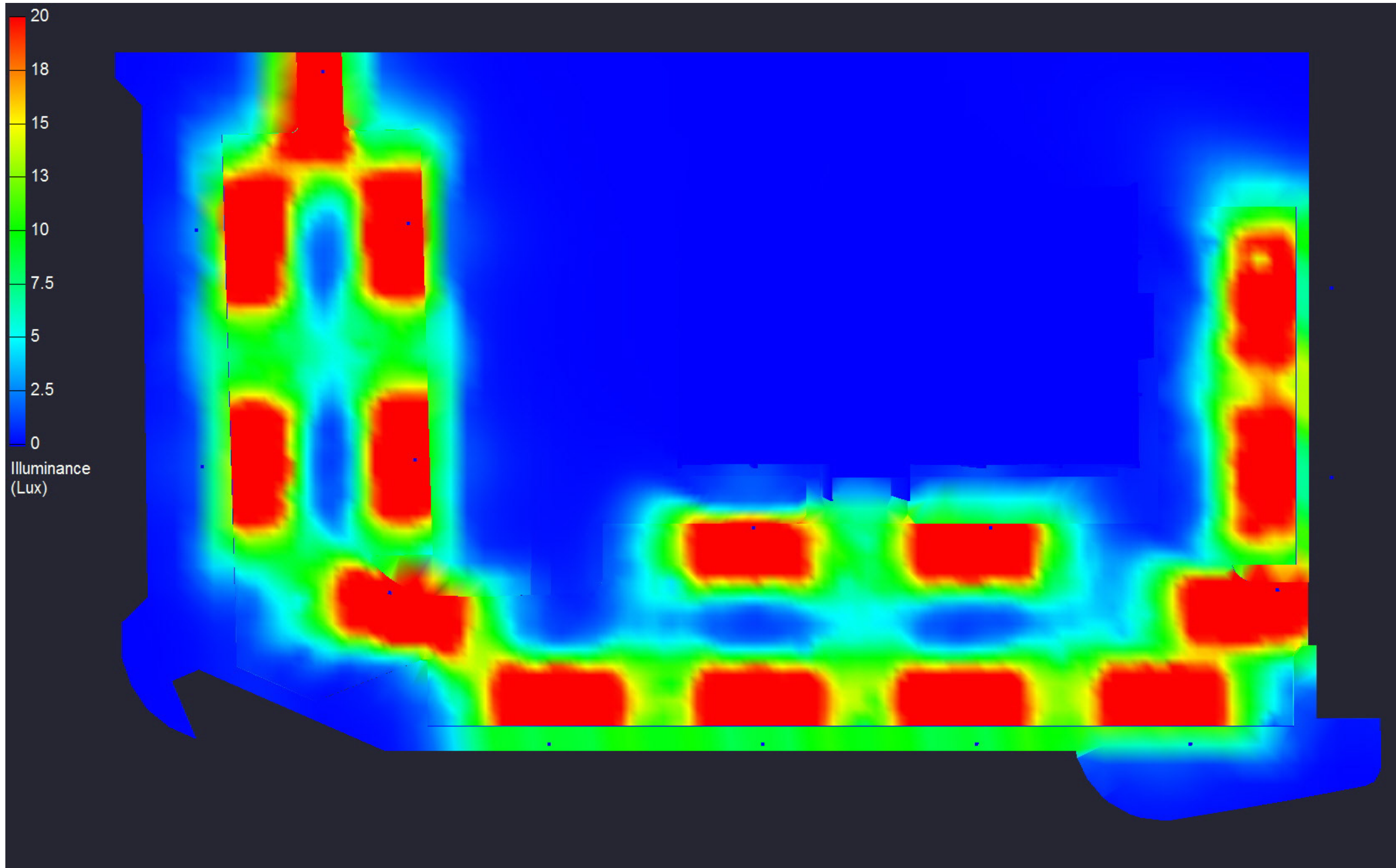
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