

**DATE:** 26 January 2022  
**DESIGNER:** A.Qadar  
**PROJECT No:** P0103-99-Linn Street  
**PROJECT NAME:** P0103-99-Linn Street-1101 - Area Calculation



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Lighting Class Selection as per BS 5489- 1 2020  
Table A.5 Lighting Classes for Subsidiary Roads  
Enviromental Zone - E3 / E4  
Assumed Speed Limit - Equal or Less than 30 mph  
Traffic Flow - Quite  
Final Lighting Class - P4  
Required Lighting Levels - Eav - 5 to 7.50, Emin - 1 Lux  
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## **Outdoor Lighting Report**

**PREPARED BY:** 4way Consulting Ltd  
9 Acorn Business Park  
Heaton Lane  
Stockport  
United Kingdom  
SK4 1AS

## Layout Report

### General Data

Dimensions in Metres Angles in Degrees

### Calculation Grids

| ID | Grid Name | X      | Y      | X' Length | Y' Length | X' Spacing | Y' Spacing |
|----|-----------|--------|--------|-----------|-----------|------------|------------|
| 1  | Grid 1    | -36.18 | -22.63 | 20.24     | 48.44     | 1.45       | 1.47       |

### Luminaires



### Luminaire A Data

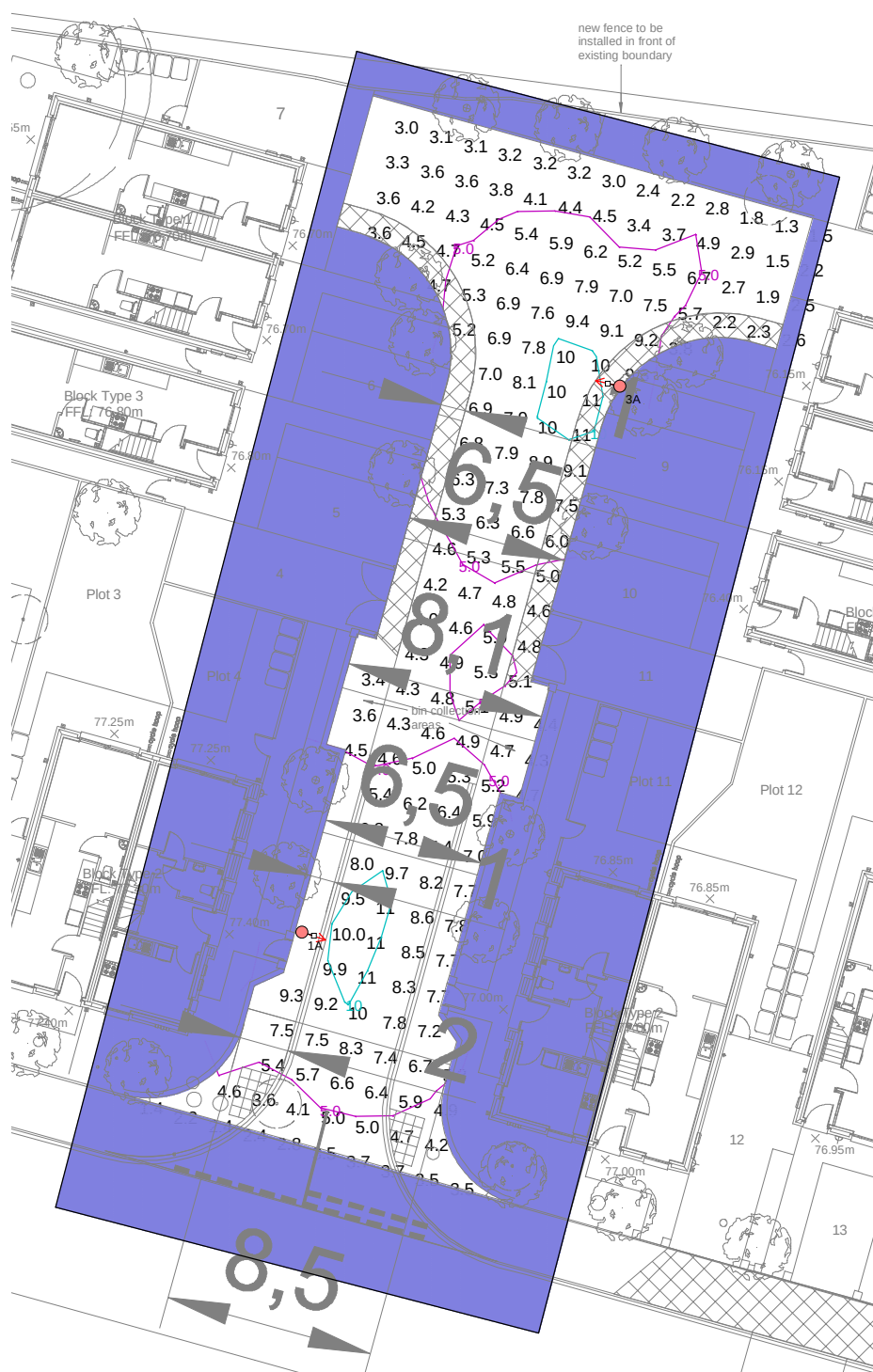
|                      |                              |
|----------------------|------------------------------|
| Supplier             | Holophane Europe             |
| Type                 | VMX.2.LA044.V1.D4D4.W027     |
| Lamp(s)              | LED C.4000 Lumens            |
| Lamp Flux (klm)      | 3.92                         |
| File Name            | VMX.2.LA044.V1.D4D4.W027.IES |
| Maintenance Factor   | 0.75                         |
| Imax70,80,90(cd/klm) | 715.1, 302.4, 0.0            |
| No. in Project       | 2                            |

### Layout

| ID | Type | X      | Y      | Height | Angle  | Tilt | Cant | Out-reach | Target X | Target Y | Target Z |
|----|------|--------|--------|--------|--------|------|------|-----------|----------|----------|----------|
| 1  | A    | -26.19 | -11.47 | 6.00   | 341.00 | 0.00 | 0.00 | 0.50      |          |          |          |
| 3  | A    | -13.31 | 10.67  | 6.00   | 168.00 | 0.00 | 0.00 | 0.50      |          |          |          |

### Horizontal Illuminance (lux)

Grid 1



## Results

|           |       |
|-----------|-------|
| Eav       | 5.65  |
| Emin      | 1.31  |
| Emax      | 11.16 |
| Emin/Emax | 0.12  |
| Emin/Eav  | 0.23  |
|           |       |