

**DATE:** 4 January 2022  
**DESIGNER:** s.40  
**PROJECT No:** 100007892-PCL-LCE-2-01-01-V01  
**PROJECT NAME:** Pudding Mill Lane

**PROJECT  
CENTRE**

Existing calculation  
C3 Target Lighting Level for Pudding Mill Lane and Barber Road  
existing  
M3 (C3 Comparable) for Marshgate Lane and Barley Lane  
Eav (min) - 15.00 Lux  
Emin/Eav (min) 0.40 uniformity  
Environmental Zone E3,  
  
Maintenance Factor 0.80 using WRTL SON-T  
Maintenance Factor 0.83: 72 months, >6m,  
CCT 4000K  
MF = 0.90 x 1.00 x 0.92 = 0.83  
Luminaires on 0.5m or 1.0m brackets  
Existing luminaire information has not been confirmed, assumed  
optics have been used for all lumianires.

## Outdoor Lighting Report

## 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	Pudding Mill Lane	538008.83	183370.75	58.36	182.50	1.50	1.50
2	Marshgate Barley	538015.24	183369.29	106.41	178.12	1.50	1.50
3	Barbers Road	537872.01	183525.84	33.00	106.50	1.50	1.50

### Luminaires



#### Luminaire A Data

Supplier	Urbis Schreder
Type	AXIA 2.2 5188 Integrated lenses 32 NVSL 219CT@890mA NW 740 2
Lamp(s)	32 NVSL219CT@890mA NW 740 230V
LampFlux(klm)/Colour	9.11 NW 4000K/70
File Name	AXIA 2.2 5188 32 NVSL219CT 890mA NW 740 89W 384192 Integrated lenses 230V ...
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	1023.1, 181.3, 0.0
No. in Project	13



#### Luminaire B Data

Supplier	_Historic Lanterns
Type	2800 SRN
Lamp(s)	1SON-T 150W
Lamp Flux (klm)	17.50
File Name	INR25.LDT
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	359.0, 141.0, 38.0
No. in Project	9



#### Luminaire C Data

Supplier	Philips
Type	BGP702 DPL1
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	6.60
File Name	Luma Gen2 Micro_BGP702_DPL1_6800_2 0LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	247.8, 31.8, 0.0
No. in Project	2

### Layout

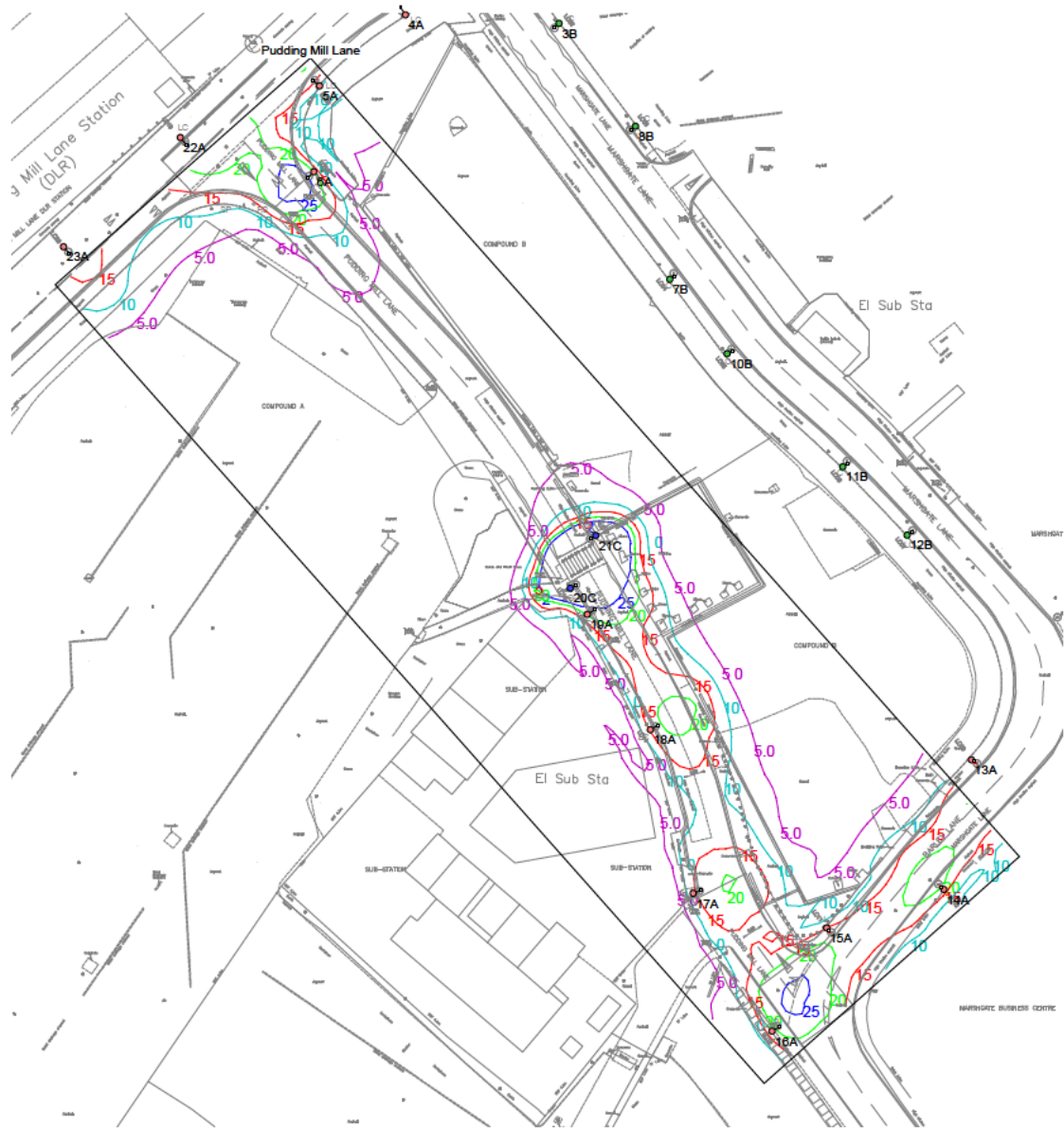
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	B	537945.86	183576.88	10.00	39.00	0.00	0.00	1 00			
2	A	537954.37	183591.41	10.00	315.00	0.00	0.00	0 50			
3	B	537973.79	183551.89	10.00	219.00	0.00	0.00	1 00			
4	A	537947.55	183553.32	10.00	124.00	10.00	0.00	1 50			
5	A	537932.83	183541.18	10.00	139.00	10.00	0.00	1 50			
6	A	537931.84	183526.54	8.00	224.00	0.00	0.00	1 50			
7	B	537992.72	183508.16	10.00	30.00	0.00	0.00	1 00			
8	B	537986.85	183534.32	10.00	219.00	0.00	0.00	1 00			

**Layout Continued**

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
9	B	538059.97	183451.07	10.00	219.00	0.00	0.00	1 00			
10	B	538002.52	183495.43	10.00	30.00	0.00	0.00	1 00			
11	B	538022.28	183476.12	10.00	30.00	0.00	0.00	1 00			
12	B	538033.29	183464.41	10.00	30.00	0.00	0.00	1 00			
13	A	538044.30	183426.03	10.00	320.00	10.00	0.00	0 50			
14	A	538039.58	183403.88	10.00	140.00	10.00	0.00	0 50			
15	A	538019.51	183397.28	10.00	306.00	10.00	0.00	0 50			
16	A	538010.19	183379.66	10.00	30.00	0.00	0.00	1 50			
17	A	537996.73	183403.19	10.00	21.00	0.00	0.00	1 50			
18	A	537989.37	183431.19	10.00	30.00	0.00	0.00	1 50			
19	A	537978.61	183450.88	10.00	30.00	0.00	0.00	1 50			
20	C	537975.71	183455.35	8.00	30.00	0.00	0.00	1 00			
21	C	537980.06	183464.35	8.00	209.00	0.00	0.00	1 00			
22	A	537909.02	183532.37	10.00	309.00	10.00	0.00	1 50			
23	A	537889.07	183513.68	10.00	311.00	10.00	0.00	1 50			
24	B	538060.72	183427.85	10.00	137.00	0.00	0.00	1 00			

## Horizontal Illuminance (lux)

### Pudding Mill Lane



### Results

Eav	13.78
Emin	0.42
E <sub>max</sub>	71.31
E <sub>min</sub> /E <sub>max</sub>	0.01
E <sub>min</sub> /E <sub>av</sub>	0.03

# Horizontal Illuminance (lux)

## Marshgate Barley

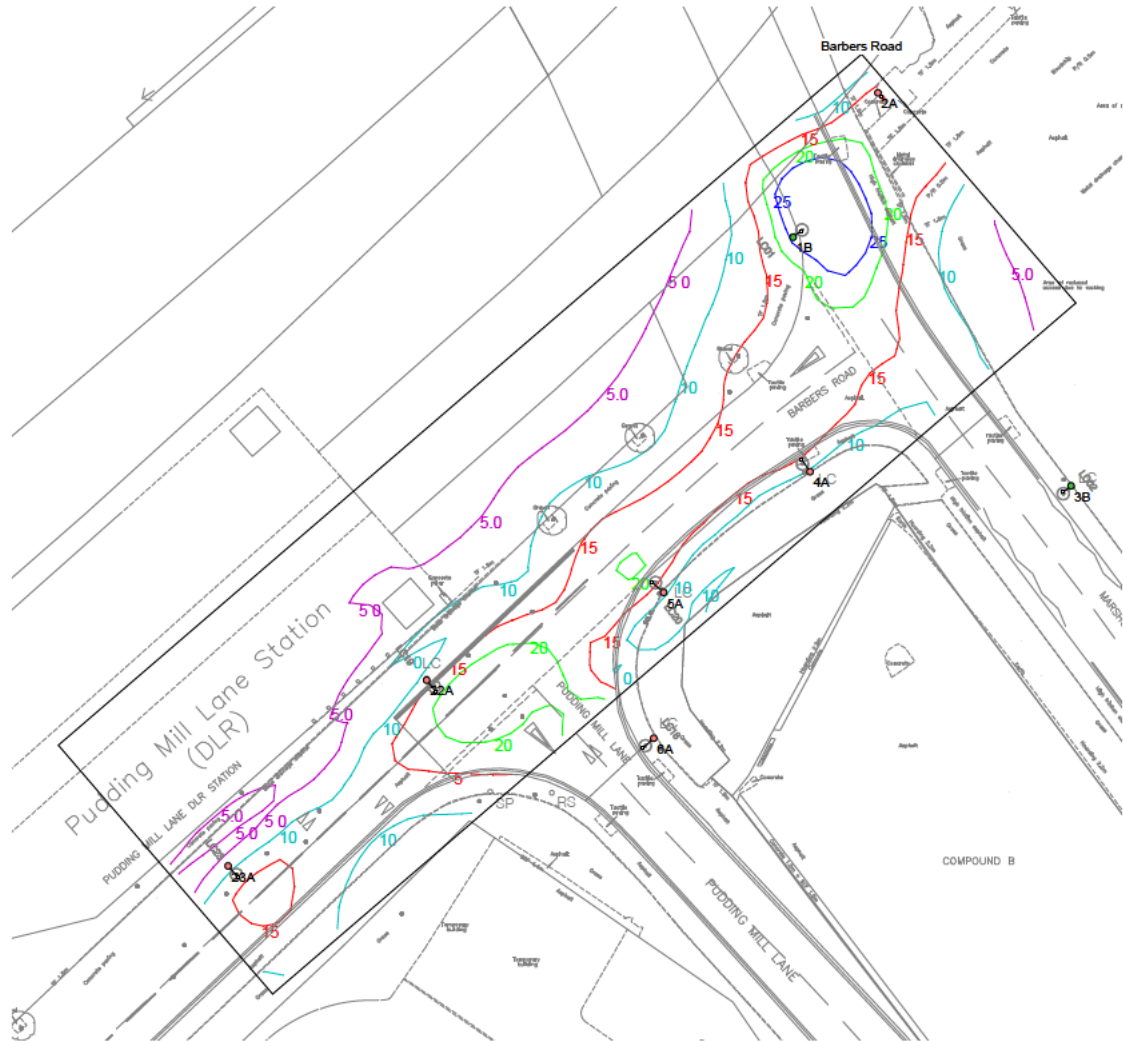


### Results

Eav	19.62
Emin	7.57
Emax	37.51
Emin/Emax	0.20
Emin/Eav	0.39

## Horizontal Illuminance (lux)

Barbers Road



### Results

Eav	16.47
Emin	4.93
Emax	38.05
Emin/Emax	0.13
Emin/Eav	0.30