

DATE: 27 May 2020
DESIGNER: Julian Joseph
PROJECT No: 100102.COLT.003.C
PROJECT NAME: Former Colt Site, Havant



Please see 'Design Parameters' document attached to this submission for justification.

Roads and Car Parks lit to BS 5489-1:2013 P4

Eav: 3.69 to 5.54 / Emin: 0.74

Footway/Cycleway lit to BS 5489-1:2013 P5

Eav: 2.00 to 2.99 / Emin: 0.40

Private Lighting Report

PREPARED BY: Joseph Lighting Design Ltd
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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	Eav: 3.69 to 5.54 Emin: 0....	472450.31	107980.08	153.39	62.71	1.21	0.54
2	Eav: 3.69 to 5.54 Emin: 0....	472486.35	108032.06	63.15	96.27	1.47	1.48
3	Eav: 3.69 to 5.54 Emin: 0....	472534.10	107985.20	112.42	136.61	1.50	1.48
4	Eav: 2.00 to 2.99 / Emin: ...	472568.33	107899.07	108.37	44.19	0.50	0.50

Luminaires

Luminaire A Data



Supplier	Philips
Type	BGP615_DM10_2000_10LED_5.1S_CLO_L9_0_NW
Lamp(s)	LED-HB 5.1S NW
Lamp Flux (klm)	2.00
File Name	Luma Micro_BGP615_DM10_2000_10LED_5.1S_CLO_L90_NW.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	540.9, 56.1, 0.0
Lamp S/P Ratio	1.61
No. in Project	13

Luminaire B Data



Supplier	Philips
Type	BGP615_DX10_2000_10LED_5.1S_CLO_L9_0_NW
Lamp(s)	LED-HB 5.1S NW
Lamp Flux (klm)	2.00
File Name	Luma Micro_BGP615_DX10_2000_10LED_5.1S_CLO_L90_NW.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	519.4, 86.3, 0.0
Lamp S/P Ratio	1.61
No. in Project	17

Luminaire C Data



Supplier	Philips
Type	BGP615_DN10_800_6LED_5.1S_CLO_L90_NW
Lamp(s)	LED-HB 5.1S NW
Lamp Flux (klm)	0.80
File Name	Luma Micro_BGP615_DN10_800_6LED_5.1S_CLO_L90_NW.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	576.8, 123.7, 0.0
Lamp S/P Ratio	1.61
No. in Project	4

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	472495.02	108026.91	6.00	232.00	0.00	0.00	0.40			
2	A	472527.74	107995.19	6.00	212.00	0.00	0.00	0.40			
3	A	472541.88	107977.46	6.00	211.00	0.00	0.00	0.40			
4	A	472551.90	107958.82	6.00	215.00	0.00	0.00	0.40			
5	A	472571.60	107950.96	6.00	282.00	0.00	0.00	0.40			
7	B	472588.00	107965.98	6.00	333.00	0.00	0.00	0.40			
8	B	472574.13	107978.70	6.00	61.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
9	B	472597.11	107982.35	6.00	332.00	0.00	0.00	0.40			
10	B	472609.17	108000.09	6.00	330.00	0.00	0.00	0.40			
11	B	472619.28	108018.40	6.00	330.00	0.00	0.00	0.40			
12	B	472649.08	108017.18	6.00	60.00	0.00	0.00	0.40			
13	B	472657.37	108032.29	6.00	241.00	0.00	0.00	0.40			
14	B	472641.99	108053.74	6.00	242.00	0.00	0.00	0.40			
15	B	472624.23	108033.24	6.00	334.00	0.00	0.00	0.40			
16	B	472605.67	108027.62	6.00	61.00	0.00	0.00	0.40			
17	B	472604.41	108049.02	6.00	240.00	0.00	0.00	0.40			
18	B	472587.84	108052.73	6.00	245.00	0.00	0.00	0.40			
19	B	472581.93	108078.38	6.00	330.00	0.00	0.00	0.40			
20	B	472570.48	108053.66	6.00	336.00	0.00	0.00	0.40			
21	A	472569.14	108031.07	6.00	157.00	0.00	0.00	0.40			
22	A	472559.19	108010.56	6.00	150.00	0.00	0.00	0.40			
23	A	472513.66	108020.75	6.00	333.00	0.00	0.00	0.40			
24	A	472527.57	108049.75	6.00	336.00	0.00	0.00	0.40			
25	A	472536.98	108075.23	6.00	331.00	0.00	0.00	0.40			
26	A	472556.46	108083.02	6.00	244.00	0.00	0.00	0.40			
27	A	472569.28	108091.03	6.00	327.00	0.00	0.00	0.40			
28	B	472527.13	108083.00	6.00	66.00	0.00	0.00	0.40			
29	B	472542.44	108096.74	6.00	162.00	0.00	0.00	0.40			
6	A	472592.96	107943.53	6.00	154.00	0.00	0.00	0.40			
30	B	472643.09	108066.84	6.00	155.00	0.00	0.00	0.40			
31	C	472575.20	107929.21	5.00	187.00	0.00	0.00	0.30			
32	C	472590.72	107916.86	5.00	263.00	0.00	0.00	0.30			
33	C	472625.24	107915.75	5.00	268.00	0.00	0.00	0.30			
34	C	472660.50	107912.77	5.00	262.00	0.00	0.00	0.30			

Horizontal Illuminance (lux)

Eav: 3.69 to 5.54 Emin: 0.74



Results

Eav	4.05
Emin	0.81
Emax	11.51
Emin/Emax	0.07
Emin/Eav	0.20

Horizontal Illuminance (lux)

Eav: 3.69 to 5.54 Emin: 0.74



Results

Eav	4.55
Emin	0.99
Emax	11.09
Emin/Emax	0.09
Emin/Eav	0.22

Horizontal Illuminance (lux)

Eav: 3.69 to 5.54 Emin: 0.74

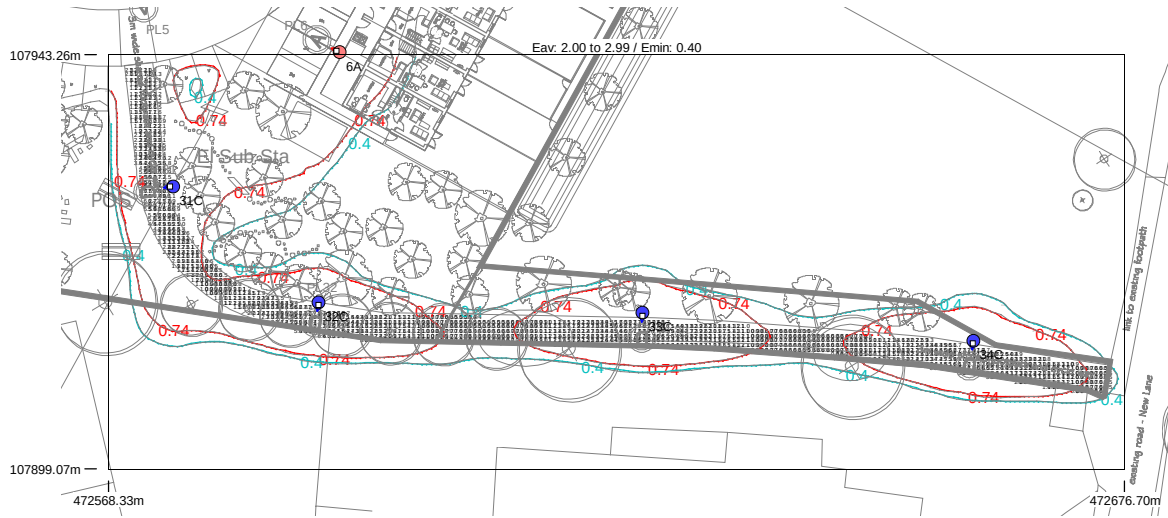


Results

Eav	3.97
Emin	0.83
Emax	11.03
Emin/Emax	0.08
Emin/Eav	0.21

Horizontal Illuminance (lux)

Eav: 2.00 to 2.99 / Emin: 0.40



Results

Eav	2.87
Emin	0.44
Emax	8.33
Emin/Emax	0.05
Emin/Eav	0.15