

DATE: 3 June 2021
DESIGNER: PAUL BARNES
PROJECT No: A/AGYAPTON.2
PROJECT NAME: ASTER HOMES

**LIGHTING
REALITY**

ASTER HOMES
CLAYS FARM, YAPTON

PROPOSED DEVELOPMENT SITE
DESIGNED TO CLASS P4 OF BS 5489-1:2020

A/AGYAPTON.2/LR1 Rev P2

Outdoor Lighting Report

PREPARED BY: Mayer Brown Limited
Lion House
Oriental Road
Woking
Surrey
GU22 8AR

website: www.mayerbrown.co.uk

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	497661.38	103793.23	188.39	204.12	1.45	1.43
2	Grid 2	497842.93	103787.13	14.37	17.93	1.20	1.12

Luminaires

Luminaire A Data



Supplier	Philips
Type	BGP702 DM10
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	4.80
File Name	Luma Gen2 Micro_BGP702_DM10_4800_2 0LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	523.4, 90.0, 0.0
No. in Project	3

Luminaire B Data



Supplier	Philips
Type	BGP702 DM10
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	2.80
File Name	Luma Gen2 Micro_BGP702_DM10_2800_2 0LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	523.4, 90.0, 0.0
No. in Project	10

Luminaire C Data



Supplier	Philips
Type	BGP702 DM50
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	3.40
File Name	Luma Gen2 Micro_BGP702_DM50_3400_2 0LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	921.3, 65.9, 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	497827.00	103728.00	8.00	338.00	0.00	0.00	0.40			
2	A	497838.00	103761.00	8.00	338.00	0.00	0.00	0.40			
3	A	497857.00	103791.00	8.00	154.00	0.00	0.00	0.40			
4	C	497827.07	103807.59	6.00	63.00	0.00	0.00	0.40			
5	C	497786.45	103834.36	6.00	246.00	0.00	0.00	0.40			
8	B	497747.26	103879.05	6.00	353.00	0.00	0.00	0.40			
9	B	497766.65	103900.00	6.00	153.00	0.00	0.00	0.40			
10	B	497784.94	103882.02	6.00	67.00	0.00	0.00	0.40			
12	B	497786.13	103912.67	6.00	66.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
13	B	497815.38	103907.48	6.00	240.00	0.00	0.00	0.40			
14	B	497758.79	103937.89	6.00	235.00	0.00	0.00	0.40			
15	B	497715.86	103935.07	6.00	316.00	0.00	0.00	0.40			
16	B	497740.12	103952.13	6.00	147.00	0.00	0.00	0.40			
17	B	497749.90	103975.78	6.00	238.00	0.00	0.00	0.40			
17	B	497761.63	103852.41	6.00	52.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1

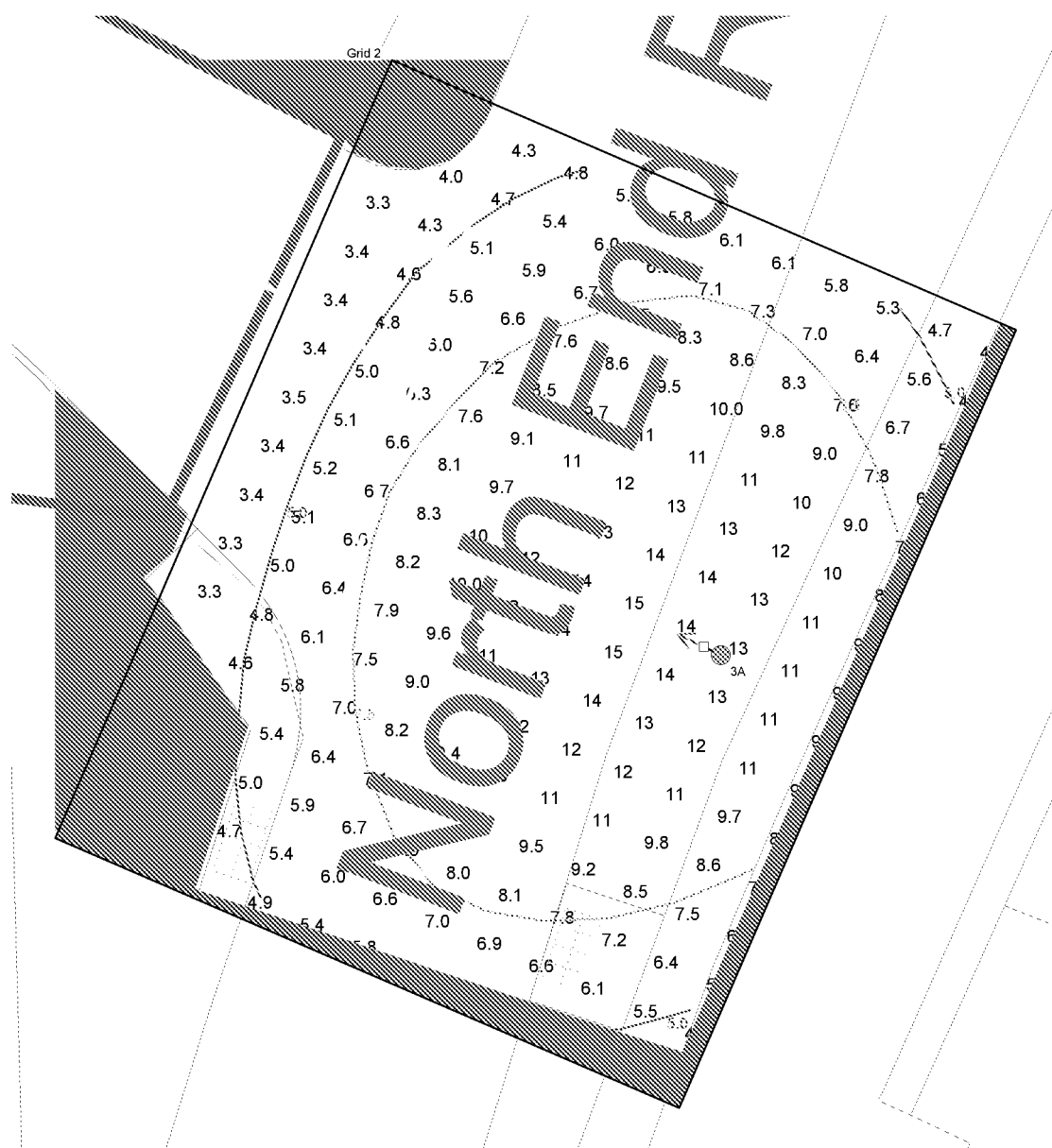


Results

Eav	4.96
Emin	1.02
Emax	15.21
Emin/Emax	0.07
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 2



Results

Eav	8.06
Emin	3.28
Emax	14.69
Emin/Emax	0.22
Emin/Eav	0.41