

DATE:

19 December 2023

DESIGNER:

Luis Eduardo Villegas Romero

PROJECT No:

D2342

PROJECT NAME:

Adamstown ACD

**LIGHTING
REALITY**

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	Grid 1	-142.32	-224.41	146.27	229.61	1.51	1.49
2	Grid 2	-142.21	-221.27	153.40	232.68	1.49	1.49

Luminaires

Luminaire A Data

Supplier	
Type	VGP282 T25 DM10 LED77-4S/730 NO
Lamp(s)	LED77-4S/730
LampFlux(klm)/Colour	7.80 730/
File Name	LDT_File_-_VGP282_40_4S_730_24V_III_DM10_48-60S.LDT
Maintenance Factor	1.00
Imax70,80,90(cd/klm)	517.6, 53.7, 0.0
No. in Project	13

Luminaire B Data

Supplier	
Type	AVF 18L357 730 RS CL BS 3550 CL2 NAM->
Lamp(s)	AVF18L35-730RSCL 21W
LampFlux(klm)/Colour	2.63 3000/70
File Name	9626545_1_(STD).LDT
Maintenance Factor	1.00
Imax70,80,90(cd/klm)	274.9, 196.5, 55.3
No. in Project	3

Luminaire C Data

Supplier	
Type	BGP291 T25 DM11 LED25/- NO
Lamp(s)	LED25-4S/740
Lamp Flux (klm)	2.50
File Name	ofmt1_bgp291t25xied25-4s740dm11.ies
Maintenance Factor	1.00
Imax70,80,90(cd/klm)	555.3, 96.2, 0.0
No. in Project	10

Luminaire D Data

Supplier	
Type	IP 48L35-740 NR BP 3550 CL1 M42 GY-S
Lamp(s)	IP48L35-740NR 49C5W
LampFlux(klm)/Colour	8.47 4000/70
File Name	96630667_(STD).LDT
Maintenance Factor	1.00
Imax70,80,90(cd/klm)	556.3, 85.9, 0.0
No. in Project	5

Layout

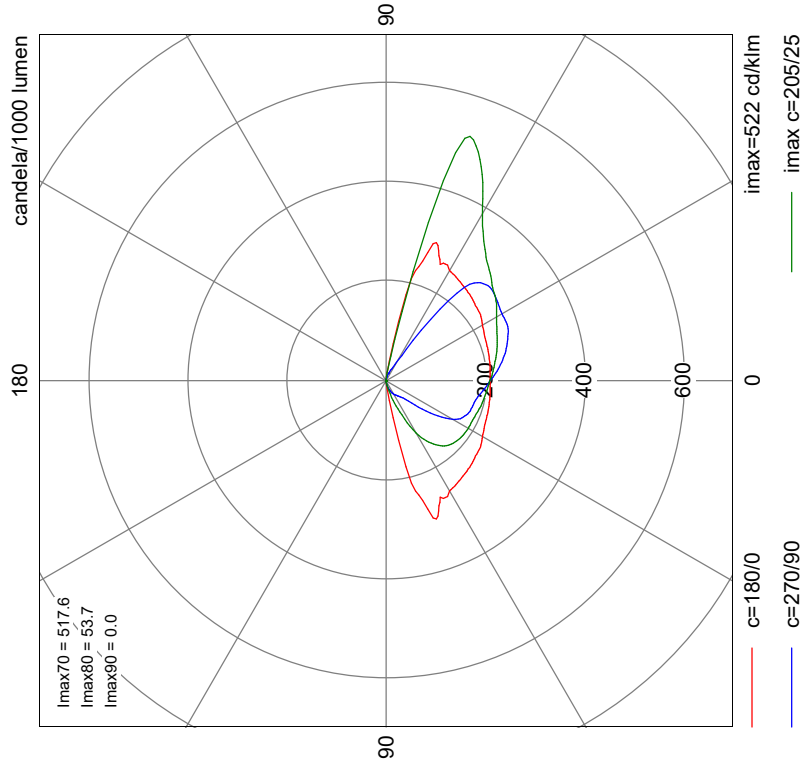
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target	Target	Target
1	A	-50.63	-12.67	8.00	357.00	0.00	0.00	1.00			
2	A	-50.73	-42.92	8.00	0.00	0.00	0.00	1.00			
3	A	-59.47	-6.07	8.00	107.00	0.00	0.00	1.00			
4	A	-98.35	-4.01	8.00	84.00	0.00	0.00	1.00			
5	A	-131.62	-3.44	8.00	117.00	0.00	0.00	1.00			
6	B	-90.55	-12.69	4.00	0.00	0.00	0.00	0.00			
7	C	-131.05	-68.01	6.00	0.00	0.00	0.00	0.70			
8	C	-128.75	-32.08	6.00	0.00	0.00	0.00	0.70			
9	A	-136.20	-97.43	8.00	85.00	0.00	0.00	1.00			

Layout_Continued

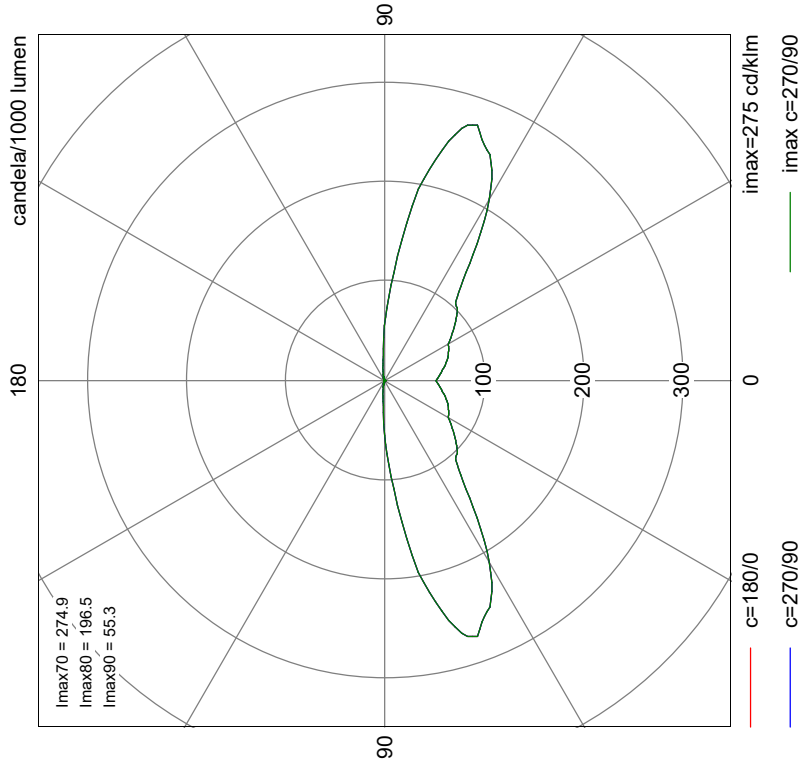
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
10	A	-91.60	-99.71	8.00	90.00	0.00	0.00	1.00			
11	C	-136.40	-123.87	6.00	0.00	0.00	0.00	0.70			
12	A	-50.06	-95.15	8.00	265.00	0.00	0.00	1.00			
13	A	-11.85	-95.83	6.00	268.00	0.00	0.00	1.00			
14	A	-20.73	-123.13	8.00	0.00	0.00	0.00	1.00			
15	A	-21.57	-155.14	8.00	0.00	0.00	0.00	1.00			
16	A	-22.39	-192.75	8.00	0.00	0.00	0.00	1.00			
17	D	-122.27	-210.09	8.00	93.00	0.00	0.00	0.70			
18	D	-95.93	-211.16	8.00	87.00	0.00	0.00	0.70			
19	D	-68.59	-213.00	8.00	81.00	0.00	0.00	0.70			
27	C	-136.11	-152.48	6.00	0.00	0.00	0.00	0.70			
28	C	-137.60	-183.92	6.00	0.00	0.00	0.00	0.70			
29	C	-96.42	-199.51	6.00	90.00	0.00	0.00	0.70			
30	D	-43.11	-213.79	8.00	88.00	0.00	0.00	0.70			
32	C	-79.73	-82.84	5.00	4.00	0.00	0.00	1.00			
35	C	-90.34	-109.09	6.00	359.00	0.00	0.00	1.00			
38	C	-92.88	-184.00	6.00	357.00	0.00	0.00	1.00			
40	B	-99.93	-110.64	4.00	255.00	0.00	0.00	0.00			
49	A	-53.65	-71.38	8.00	0.00	0.00	0.00	1.00			
48	B	-86.96	-12.92	5.00	0.00	0.00	0.00	0.00			
50	C	-51.28	-201.67	6.00	99.00	0.00	0.00	0.70			
54	D	-139.32	-207.59	6.00	86.00	0.00	0.00	1.70			

Polar Diagrams

Luminaire A VGP282 T25 DM10 LED77-4S/730 NO

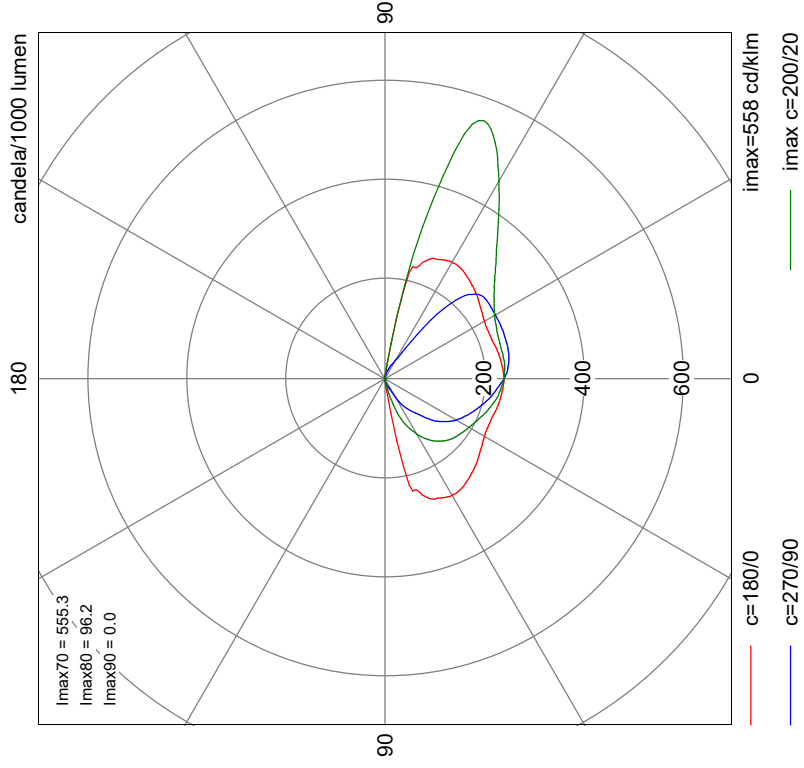


Luminaire B AVF 18L35 730 RS CL BS 3550 CL2 N4M ->

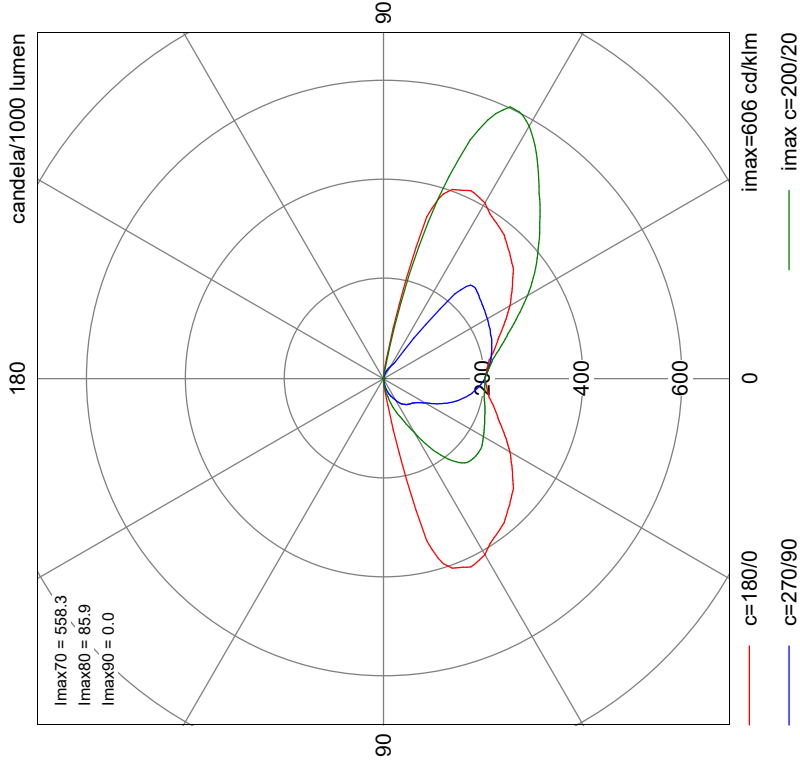


Polar Diagrams Continued

Luminaire C BGP291 T25 DM11 LED25/- NO

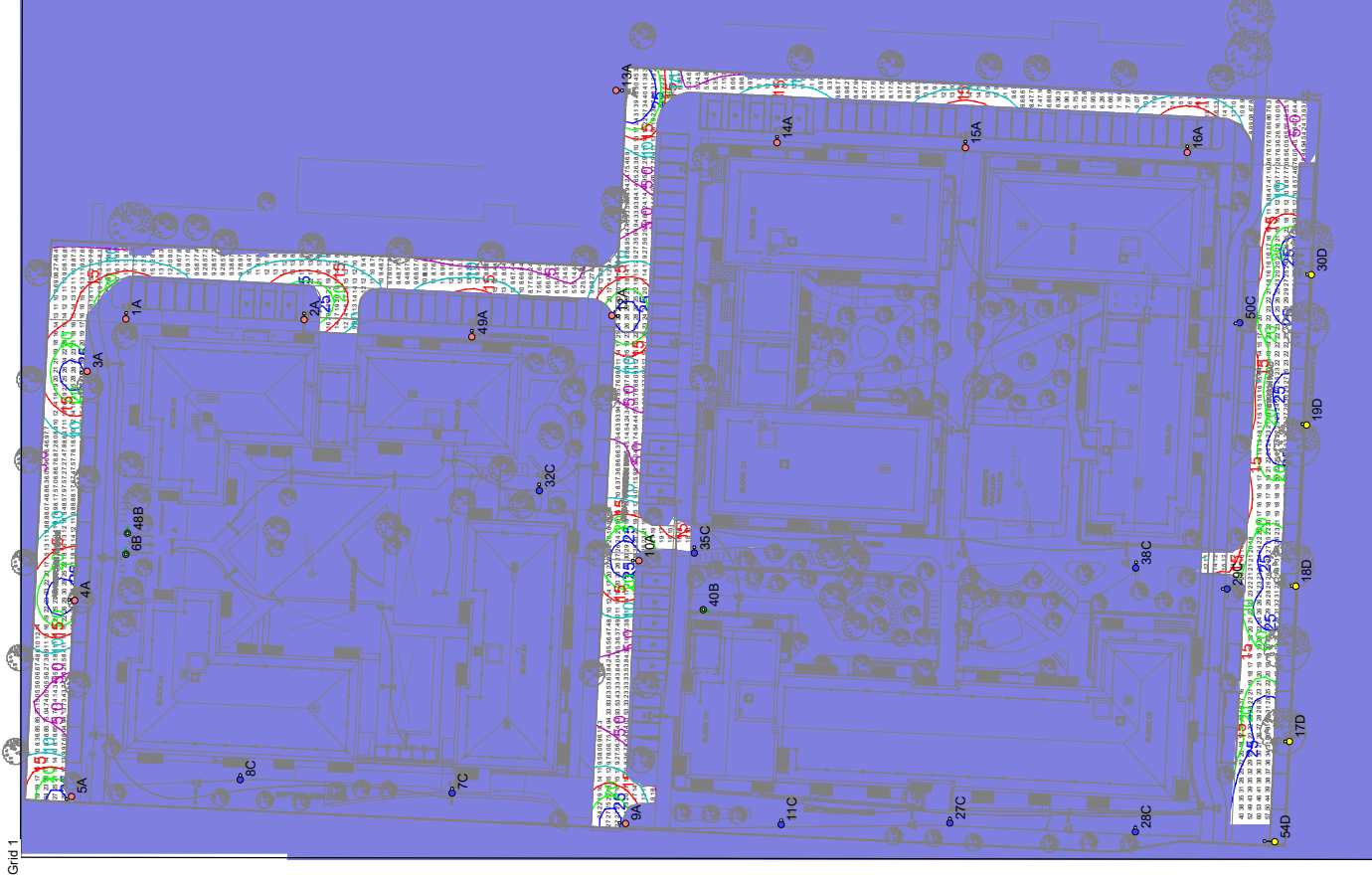


Luminaire D IP 48L35-740 NR BP 3550 CL1 M42 GY-S



Horizontal Illuminance (lux)

Grid 1

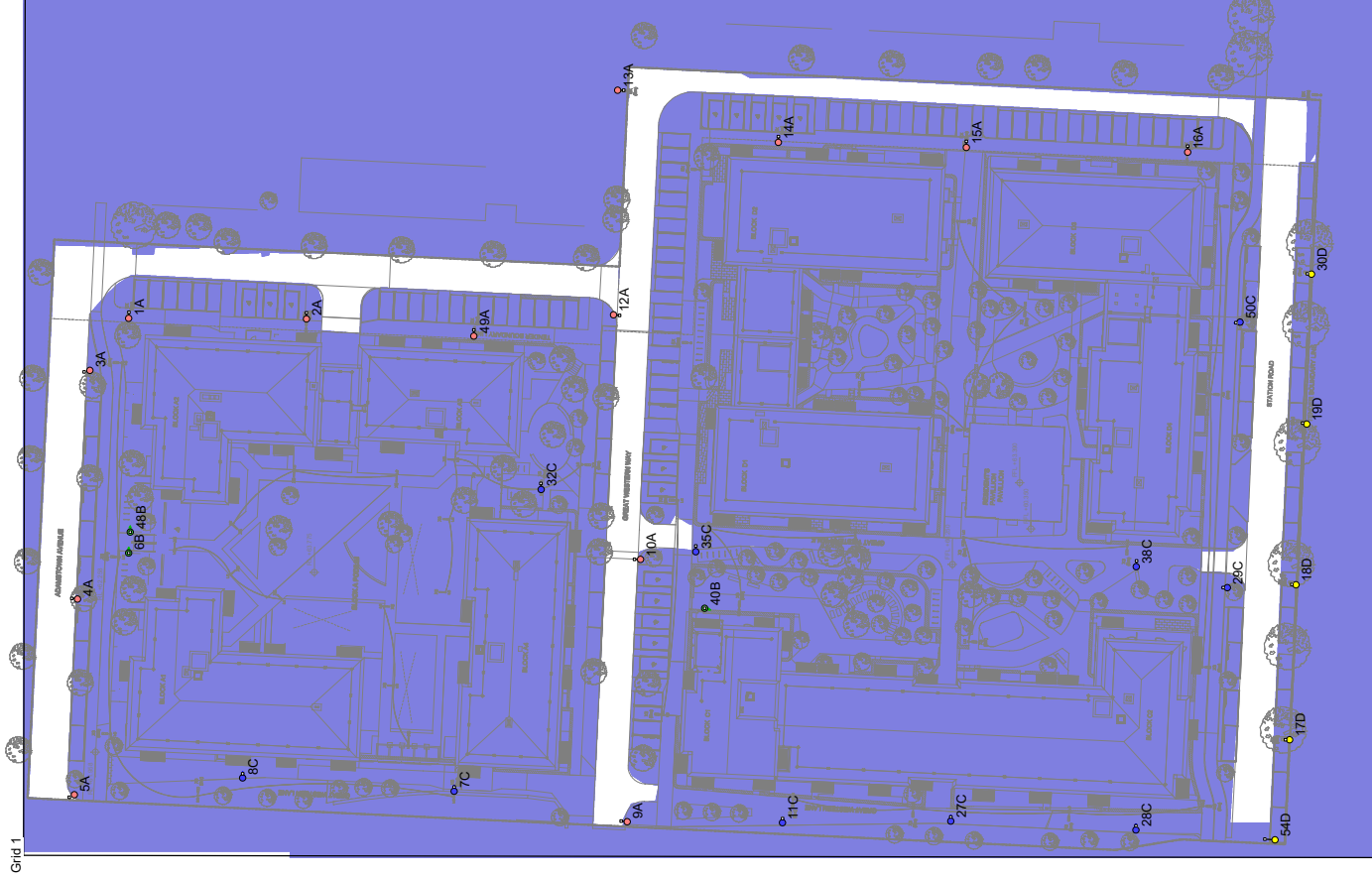


Results

Eav	14.25
Ermin	3.22
E _{max}	59.66
E _{min} /E _{max}	0.05
E _{min} /E _{av}	0.23

Horizontal Illuminance (lux)

Grid 1



Results

Eav	14.25
Ermin	3.22
E _{max}	59.66
E _{min} /E _{max}	0.05
E _{min} /E _{av}	0.23

Horizontal Illuminance (lux)

Grid 1



Results

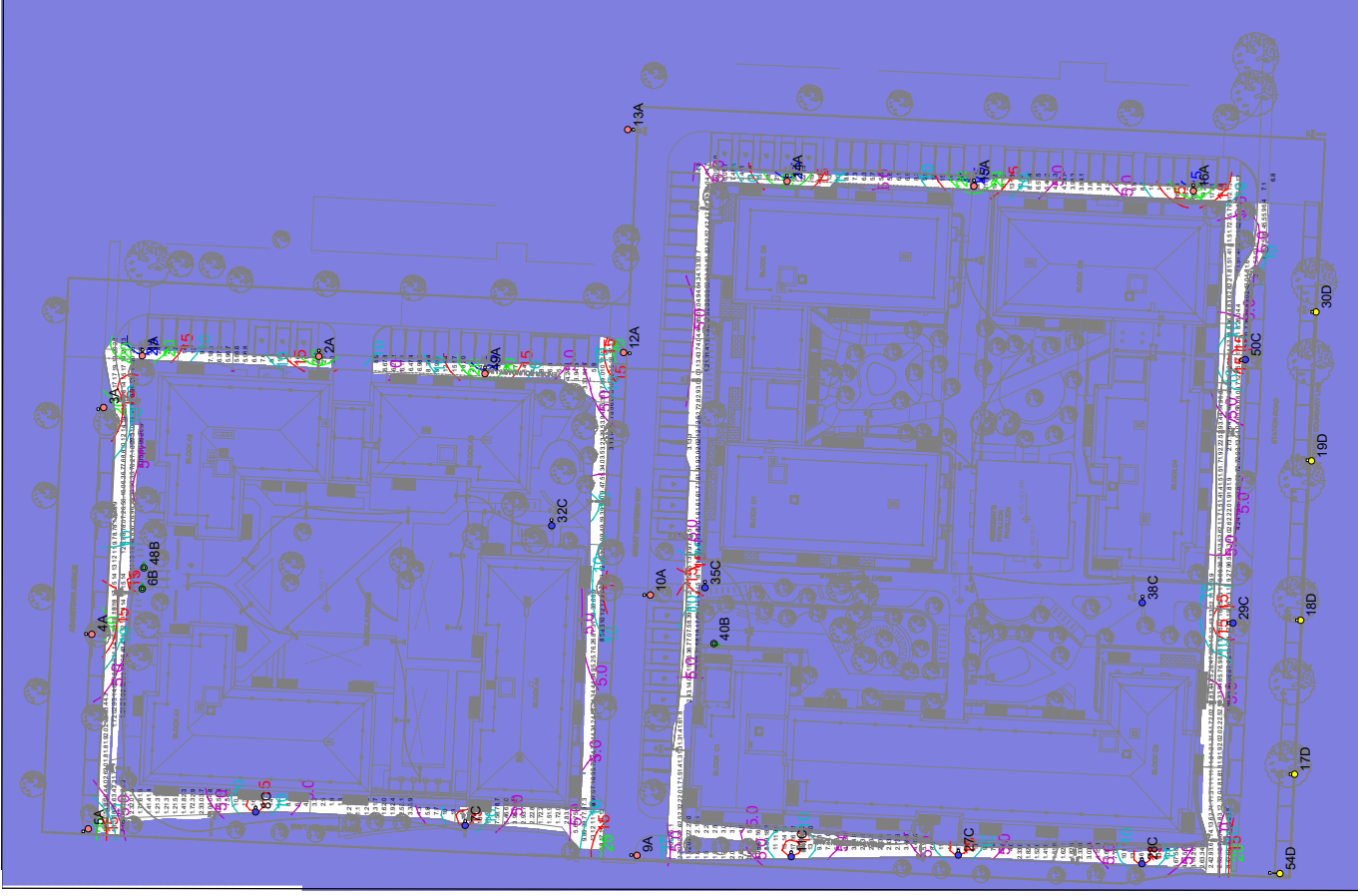
Eav	14.25
Ermin	3.22
E _{max}	59.66
E _{min} /E _{max}	0.05
E _{min} /E _{av}	0.23

Horizontal Illuminance (lux)

Grid 2

DEVELOPMENT

Grid 2

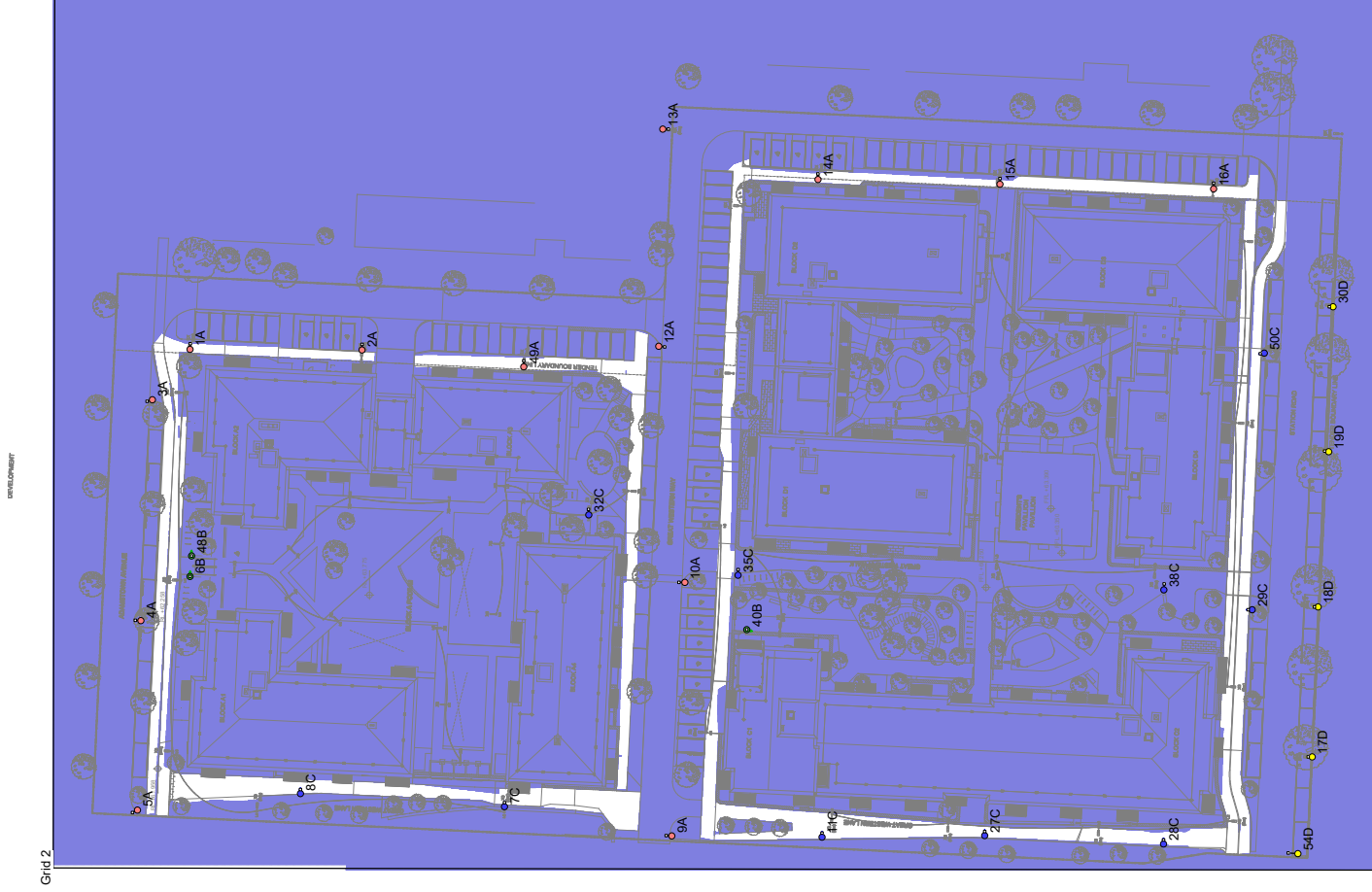


Results

Eav	7.49
Ermin	1.11
E _{max}	25.11
E _{min} /E _{max}	0.04
E _{min} /E _{av}	0.15

Horizontal Illuminance (lux)

Grid 2



Results

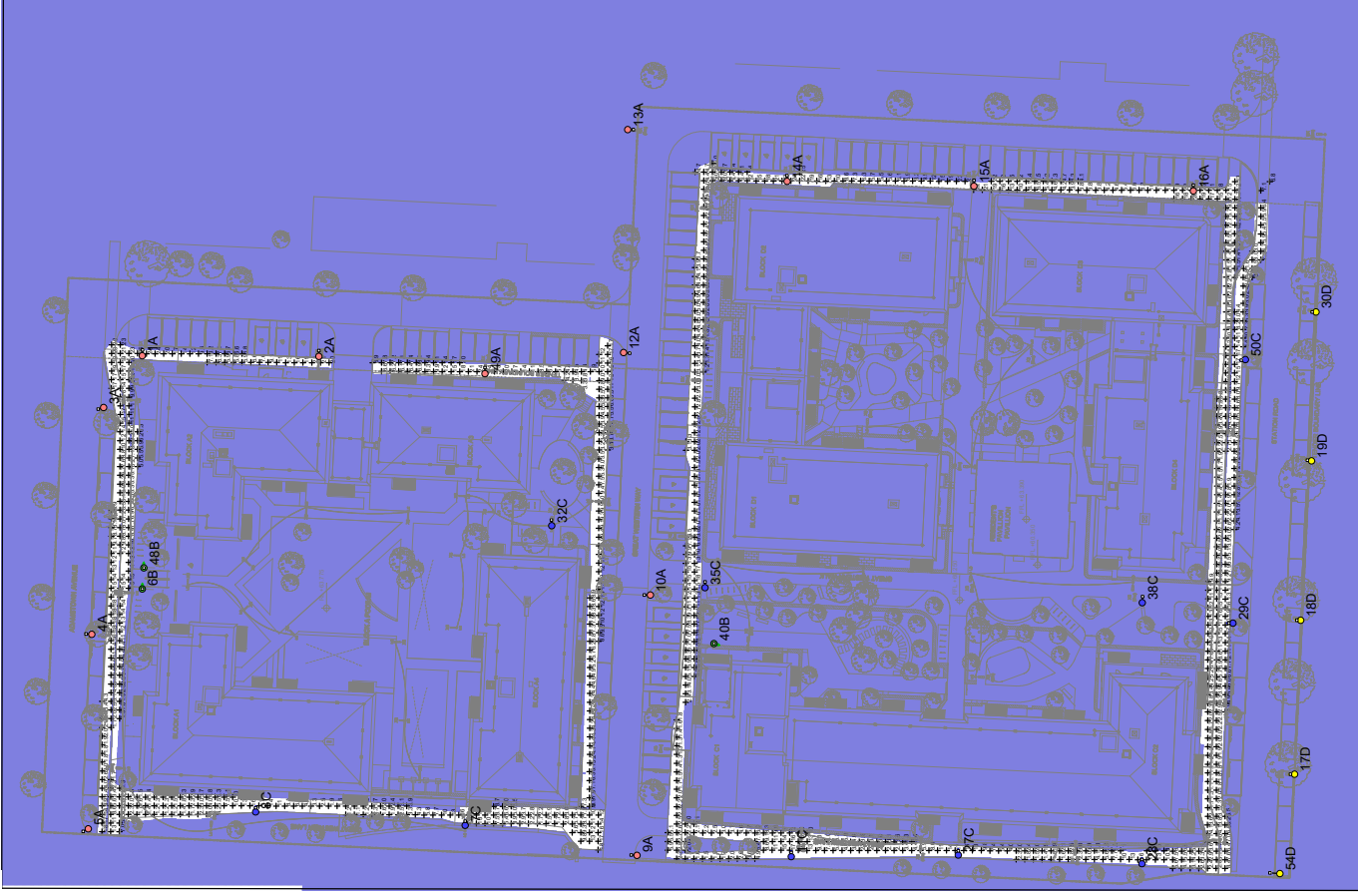
Eav	7.49
Emin	1.11
Emax	25.11
Emin/Emax	0.04
Emin/Eav	0.15

Horizontal Illuminance (lux)

Grid 2

DEVELOPMENT

Grid 2



Results

Eav	7.49
Ermin	1.11
E _{max}	25.11
E _{min} /E _{max}	0.04
Ermin/Eav	0.15