

DATE: 13 May 2025
DESIGNER: D.Larkin
PROJECT No: WCC-2025-R4
PROJECT NAME: ATHLONE LINK ROAD



Designed to achieve:

P2 Lighting Class on roadway as per BS5489-1:2020
P3 Lighting Class on Footpath/Cycleway as per BS5489-1:2020
C3 Lighting Class for conflict areas as per BS5489-1:2020
Medium usage Traffic for Carpark areas as per BS5489-1:2020

20% Minimum uniformity on roadway & footpath/cycleway
40% Minimum uniformity for conflict areas
25% Minimum uniformity on carpark

10.0m Columns
2700kelvin Colour Temp Luminaires Used
Louvres used where applicable to reduce impact on nearby
Residential Developments.

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“Electric Skyline confirms that this Design complies with relevant Lighting Standards. However as the Design was prepared on a Desktop basis, Electric Skyline assumes no responsibility or liability for any errors or omissions which may occur due to varying conditions on the Project site. This Design is provided on a provisional basis only, with no guarantees of completeness or accuracy until on-site surveys are completed by associated Contractors and all Safety Rules and Codes of Practice have been taken into consideration.”

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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	Grid 1-C3	603921.36	741827.48	62.28	57.08	1.48	1.46
2	Grid 2 -Road-P2	603926.02	741746.83	328.08	166.53	1.50	1.49
3	Medium Usage Traffic Carpa...	603984.36	741827.11	231.05	101.16	1.49	1.49
4	Grid 4-Cycle/Footpath-P3	603925.53	741746.60	328.08	166.53	1.50	1.49

Luminaires

Luminaire A Data

Supplier	
Type	AXIA 3.3 5266 Integrated lenses Front louvers 64 OSLO SQUARE
Lamp(s)	64 OSLO SQUARE GIANT@300mA WW 730 230V 00-36-649
LampFlux(klm)/Colour	7.50 WW 3000K/70
File Name	AXIA 3.3 5266 64 OSLO SQUARE GIANT T 300mA WW 730 56.5W 479422 Integrat...
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	1297.6, 118.2, 0.0
No. in Project	10

Luminaire B Data

Supplier	
Type	AXIA 3.3 5267 Integrated lenses Front-Reducer louvers 64 OSLO SQUARE
Lamp(s)	64 OSLO SQUARE GIANT@880mA WW 730 230V 00-25-842
LampFlux(klm)/Colour	12.62 WW 3000K/70
File Name	AXIA 3.3 5267 64 OSLO SQUARE GIANT T 880mA WW 730 172W 479492 Integrat...
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	1144.9, 142.3, 0.0
No. in Project	4



Luminaire C Data

Supplier	Urbis Schreder
Type	AXIA 3.3 5267 Integrated lenses 64 OSLO SQUARE GIANT@880mA
Lamp(s)	64 OSLO SQUARE GIANT@880mA WW 730 230V
LampFlux(klm)/Colour	20.18 WW 3000K/70
File Name	AXIA 3.3 5267 64 OSLO SQUARE GIANT T 880mA WW 730 172W 429224 Integrat...
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	980.0, 156.0, 9.0
No. in Project	14

Layout

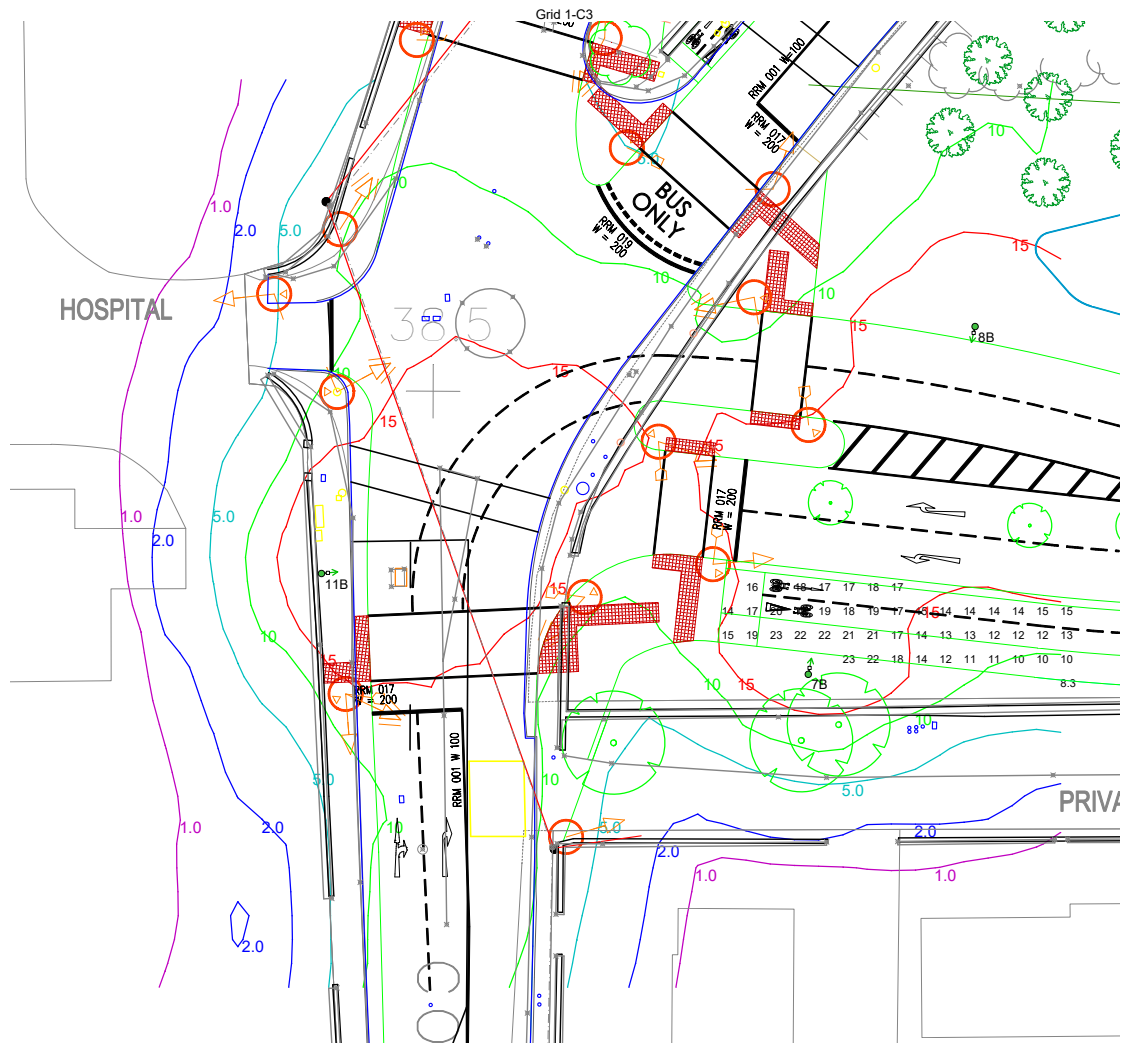
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	604019.18	741862.01	10.00	271.00	5.00	0.00	0.40			
2	A	604069.05	741862.76	10.00	272.00	5.00	0.00	0.40			
3	A	604120.08	741861.20	10.00	265.00	5.00	0.00	0.40			
4	A	604159.84	741847.46	10.00	237.00	5.00	0.00	0.40			
5	A	604191.49	741822.45	10.00	227.00	5.00	0.00	0.40			
6	B	604218.13	741792.32	10.00	223.00	0.00	0.00	0.40			
7	B	603967.44	741847.39	10.00	79.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
8	B	603977.66	741868.70	10.00	257.00	0.00	0.00	0.40			
9	A	603968.86	741896.37	10.00	315.00	0.00	0.00	0.40			
10	A	603949.23	741904.31	10.00	340.00	0.00	0.00	0.40			
11	B	603937.61	741853.56	10.00	6.00	0.00	0.00	0.40			
12	A	604241.59	741760.29	10.00	59.00	0.00	0.00	0.40			
13	A	604241.37	741760.03	10.00	227.00	0.00	0.00	0.40			
14	A	603938.97	741820.31	10.00	359.00	0.00	0.00	0.40			
15	C	604019.24	741863.11	10.00	81.00	5.00	0.00	0.40			
16	C	604069.05	741863.91	10.00	89.00	5.00	0.00	0.40			
17	C	604120.34	741862.37	10.00	77.00	5.00	0.00	0.40			
18	C	604160.32	741848.39	10.00	60.00	5.00	0.00	0.40			
19	C	604192.23	741823.17	10.00	49.00	5.00	0.00	0.40			
20	C	603992.56	741894.07	10.00	303.00	5.00	0.00	0.40			
21	C	604016.12	741908.49	10.00	290.00	5.00	0.00	0.40			
22	C	604044.87	741917.14	10.00	274.00	5.00	0.00	0.40			
23	C	604067.84	741917.04	10.00	266.00	5.00	0.00	0.40			
24	C	604096.12	741906.17	10.00	251.00	5.00	0.00	0.40			
25	C	604123.89	741895.49	10.00	249.00	5.00	0.00	0.40			
26	C	604151.72	741884.53	10.00	255.00	5.00	0.00	0.40			
27	C	604179.50	741873.45	10.00	245.00	5.00	0.00	0.40			
28	C	604206.12	741862.93	10.00	239.00	5.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1-C3

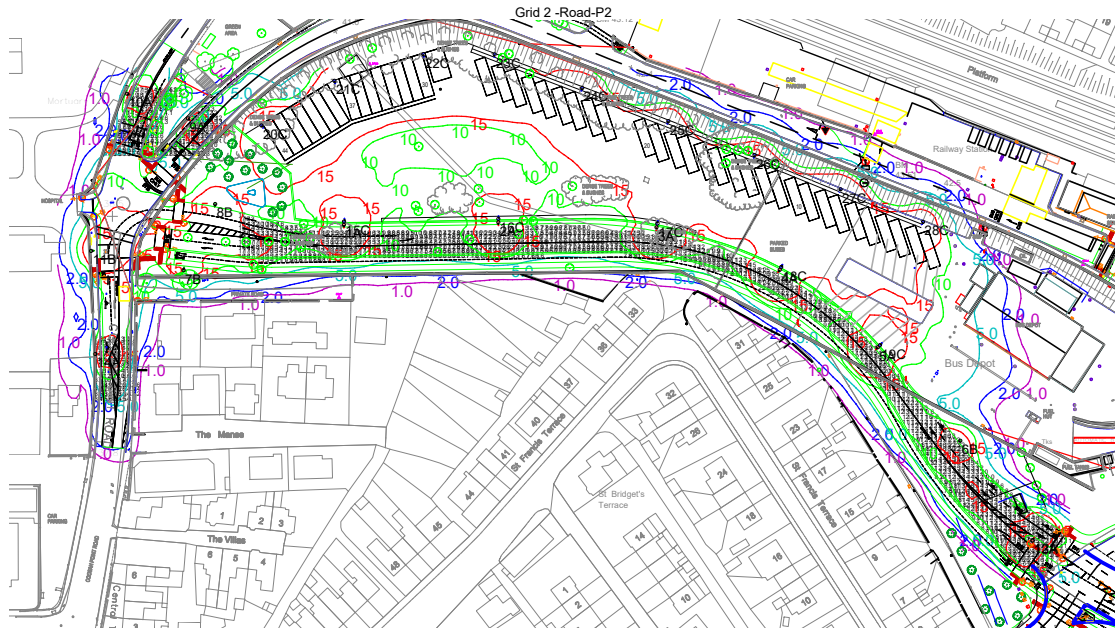


Results

Eav	15.92
Emin	8.31
Emax	23.13
Emin/Emax	0.36
Emin/Eav	0.52

Horizontal Illuminance (lux)

Grid 2 -Road-P2

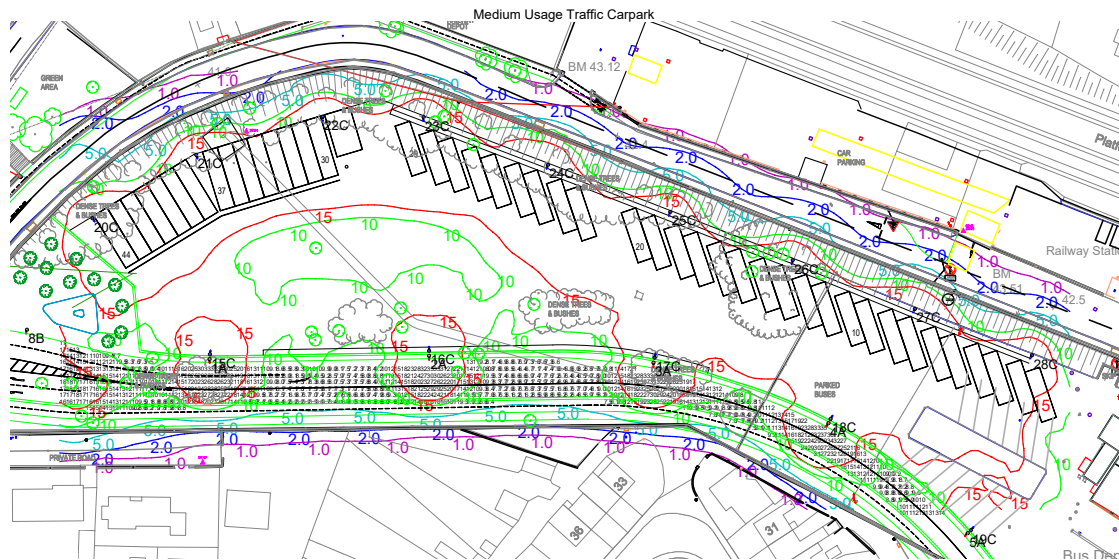


Results

Eav	13.51
Emin	2.86
Emax	36.79
Emin/Emax	0.08
Emin/Eav	0.21

Horizontal Illuminance (lux)

Medium Usage Traffic Carpark

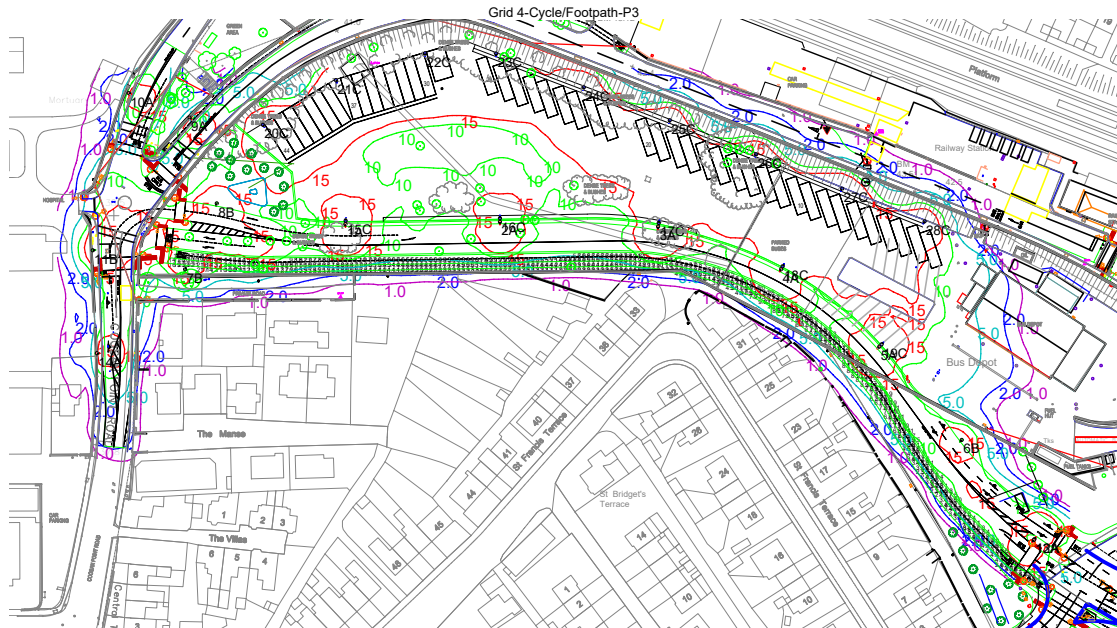


Results

Eav	13.49
Emin	5.91
E _{max}	36.91
Emin/E _{max}	0.16
Emin/Eav	0.44

Horizontal Illuminance (lux)

Grid 4-Cycle/Footpath-P3



Results

Eav	7.94
Emin	1.94
Emax	27.62
Emin/Emax	0.07
Emin/Eav	0.24