

DATE: 18 March 2024
DESIGNER: MMA Lighting Consultancy Ltd
PROJECT No: MMA18023
PROJECT NAME: Dee Road, Reading - Private Lighting



Dee Road, Reading - Private Area Lighting - Area Calculation - R4

Proposed 6m Standard Steel Lamp Columns with a Post Top Mounted CU Phosco P852K Warm White LED Lantern. Columns with Twin Lanterns to Be Mounted on 0.5m Outreach Brackets.

Proposed Lighting Class as Per BS EN 12464-2:2014 Table 5.9 — Parking Areas Ref 5.9.1 'Light Use' Car Parking Areas.

Required Results:

Eav: 5.00 Lux
Uo: 0.25

DWG Base used in calculation is
"2107331-XR-External Finishes Plan"

Outdoor Lighting Report

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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	468465.68	173356.09	96.00	48.00	1.50	1.50
2	Grid 2	468465.89	173314.32	126.00	45.00	1.50	1.50
3	Grid 3	468486.32	173267.35	93.00	49.66	1.50	1.50

Luminaires

Luminaire A Data



Supplier	C U Phosco
Type	P852K-12-C1-WW-CA0250-11W
Lamp(s)	730C WW
Lamp Flux (klm)	1.29
File Name	P852K-12-C1-WW-CA0250-11W.ies
Maintenance Factor	0.85
Lum. Int. Class	G4
No. in Project	21

Luminaire B Data



Supplier	C U Phosco
Type	P852K-12-C1-WW-CA0300-13W
Lamp(s)	730C WW
Lamp Flux (klm)	1.52
File Name	P852K-12-C1-WW-CA0300-13W.ies
Maintenance Factor	0.85
Lum. Int. Class	G4
No. in Project	6

Layout

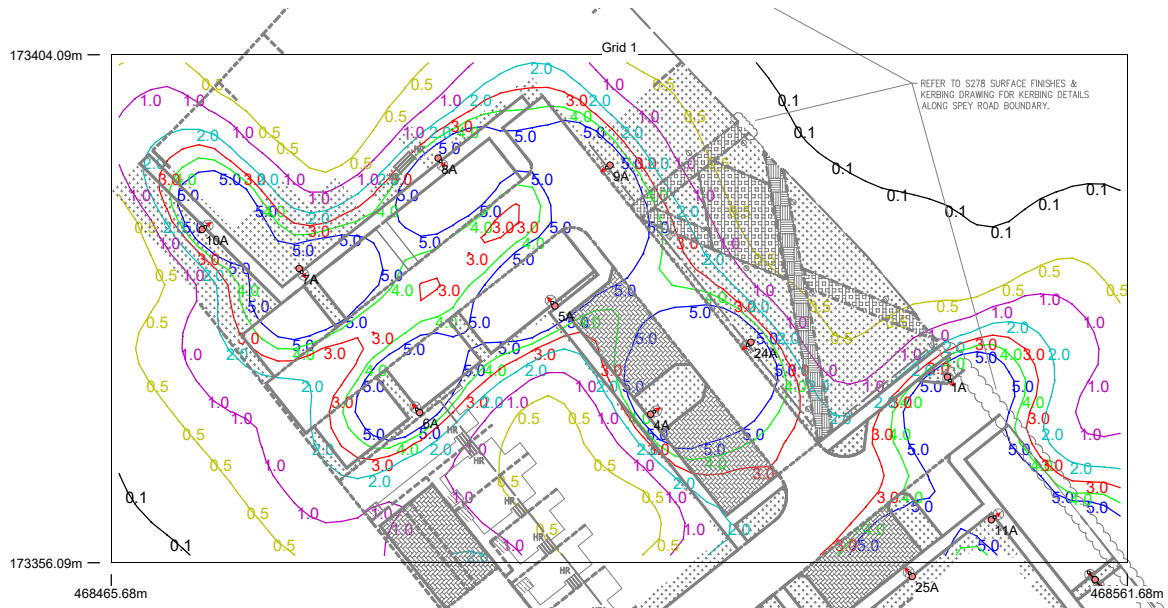
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	468544.66	173373.63	6.00	305.00	0.00	0.00	0.40			
2	A	468522.80	173339.68	6.00	131.00	0.00	0.00	0.40			
3	A	468498.17	173320.13	6.00	131.00	0.00	0.00	0.40			
4	A	468516.64	173370.13	6.00	36.00	0.00	0.00	0.40			
5	A	468507.59	173380.36	6.00	131.00	0.00	0.00	0.40			
6	A	468494.80	173370.29	6.00	131.00	0.00	0.00	0.40			
7	A	468483.43	173383.88	6.00	305.00	0.00	0.00	0.40			
8	A	468496.54	173394.32	6.00	310.00	0.00	0.00	0.40			
9	A	468512.79	173393.66	6.00	216.00	0.00	0.00	0.40			
10	A	468474.28	173387.57	6.00	41.00	0.00	0.00	0.40			
11	A	468548.79	173360.16	6.00	37.00	0.00	0.00	0.40			
12	A	468558.60	173354.51	6.00	308.00	0.00	0.00	0.90			
13	A	468580.92	173327.35	6.00	129.00	0.00	0.00	0.40			
14	A	468558.59	173354.51	6.00	131.00	0.00	0.00	0.90			
15	A	468569.03	173341.19	6.00	131.00	0.00	0.00	0.90			
16	A	468569.02	173341.18	6.00	305.00	0.00	0.00	0.90			
17	B	468531.15	173288.74	6.00	219.00	0.00	0.00	0.90			
18	B	468531.16	173288.74	6.00	39.00	0.00	0.00	0.90			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
19	B	468517.67	173276.63	6.00	41.00	0.00	0.00	0.40			
20	B	468546.51	173300.59	6.00	39.00	0.00	0.00	0.90			
21	B	468546.51	173300.59	6.00	216.00	0.00	0.00	0.90			
22	B	468560.97	173312.05	6.00	221.00	0.00	0.00	0.40			
23	A	468500.46	173347.41	6.00	40.00	0.00	0.00	0.40			
24	A	468526.08	173376.93	6.00	221.00	0.00	0.00	0.40			
25	A	468541.34	173354.80	6.00	131.00	0.00	0.00	0.40			
26	A	468489.01	173330.08	6.00	310.00	0.00	0.00	0.40			
27	A	468515.01	173349.93	6.00	309.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1

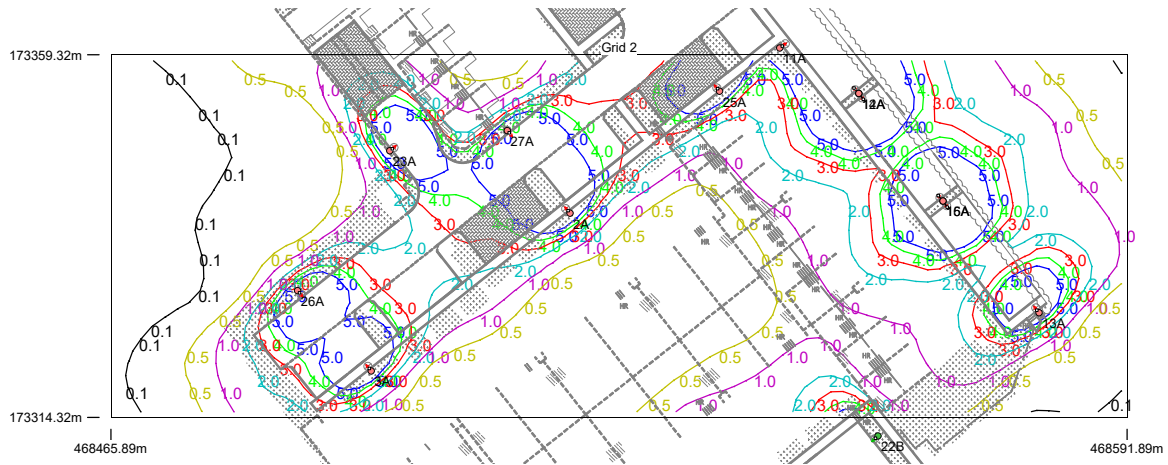


Results

Eav	5.48
Emin	1.37
Emax	12.32
Emin/Emax	0.11
Emin/Eav	0.25

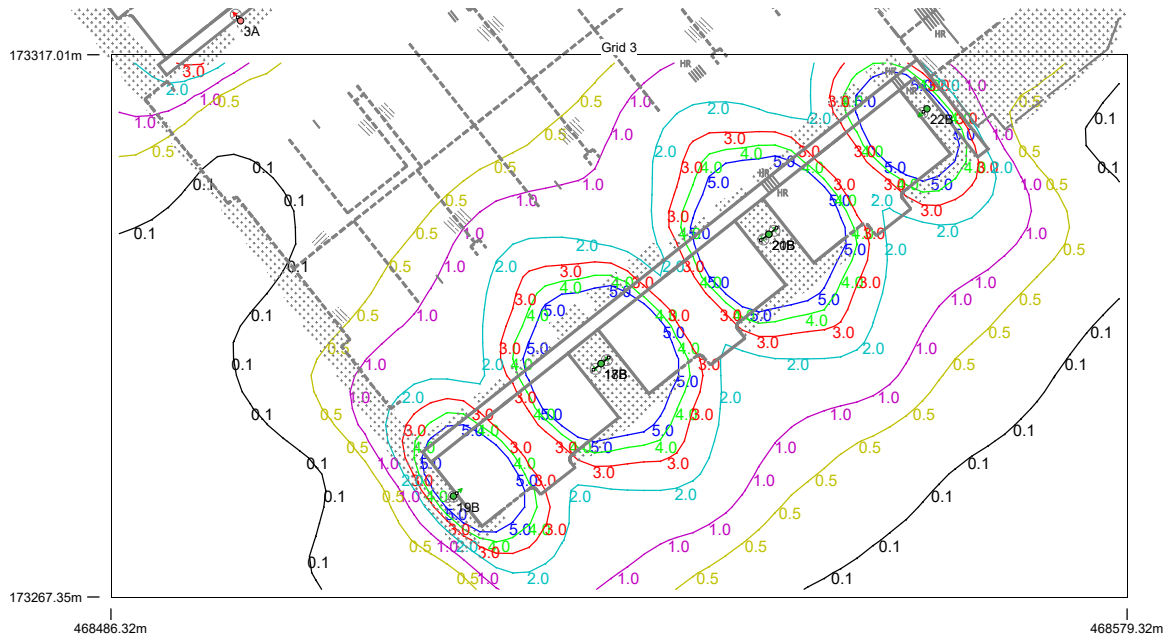
Horizontal Illuminance (lux)

Grid 2



Horizontal Illuminance (lux)

Grid 3



Results

Eav	5.45
Emin	1.36
Emax	12.36
Emin/Emax	0.11
Emin/Eav	0.25