

DATE: 3 October 2019
DESIGNER: Alex Naper
PROJECT No: SES 13719 Rev C
PROJECT NAME: Parkside 4, Parkside, Dublin 13- Cairn Homes Properties Ltd



Residential areas designed to BS5489-1:2013 Category P4 (1.64).
Road section lit to BS5489-1:2013 Category P3 (S/P Ratio 1.64)

Rev A: Footpath lighting by river removed.
Rev B: Existing SON-T luminaires retained
Rev C: Updated Layout

Outdoor Lighting Report

PREPARED BY: Sabre Electrical Services Ltd.
Unit 11,
Bellview Industrial Estate,
Tolka Valley Road,
Dublin 11
Phone Number: 01 8110875
Contact: Graham Sheehan
eMail: graham@sabrelighting.ie

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	721772.74	741233.17	373.45	160.04	1.50	1.50
2	Grid 2	721798.68	741231.98	350.00	72.00	1.50	1.50

Luminaires



Luminaire A Data

Supplier	C U Phosco
Type	P852-12-P4-NW-CB0300-13W
Lamp(s)	740C NW
Lamp Flux (klm)	1.59
File Name	P852-12-P4-NW-CB0300-13W.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	760.6, 161.3, 0.8
No. in Project	6



Luminaire B Data

Supplier	C U Phosco
Type	P852-6-P4-NW-F0350-9W
Lamp(s)	740P NW
Lamp Flux (klm)	0.89
File Name	P852-6-P4-NW-F0350-9W.ies
Maintenance Factor	0.82
Imax70,80,90(cd/klm)	724.0, 80.7, 2.3
No. in Project	2

Luminaire D Data

Supplier	
Type	ZX2/FG/1312/110/-25/881042
Lamp(s)	100W-SONT+
Lamp Flux (klm)	10.70
File Name	ZX2_Flat Glass_1312_SON-T+_100_110#-25_881042TW.Idt
Maintenance Factor	1.00
Imax70,80,90(cd/klm)	276.0, 55.0, 0.0
No. in Project	21

Layout

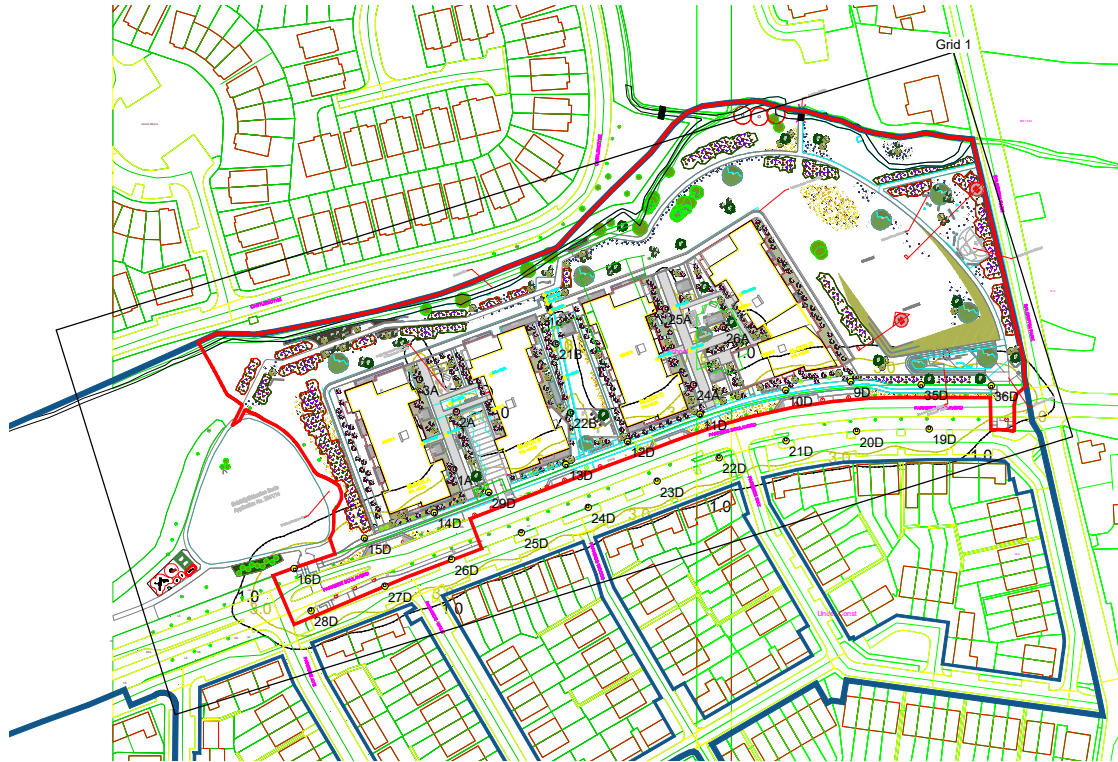
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	721883.42	741330.65	5.00	20.00	0.00	0.00	0.40			
2	A	721884.47	741353.58	5.00	106.00	0.00	0.00	0.40			
3	A	721869.86	741366.43	5.00	20.00	0.00	0.00	0.40			
21	B	721924.06	741380.58	5.00	13.00	0.00	0.00	0.40			
22	B	721929.93	741353.15	5.00	11.00	0.00	0.00	0.40			
24	A	721978.78	741364.25	5.00	19.00	0.00	0.00	0.40			
25	A	721967.57	741394.40	5.00	20.00	0.00	0.00	0.40			
26	A	721990.57	741387.16	5.00	294.00	0.00	0.00	0.40			
9	D	722041.35	741365.50	8.00	274.00	0.00	0.00	0.45			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
10	D	722015.46	741362.08	8.00	279.00	0.00	0.00	0.45			
11	D	721981.32	741352.57	8.00	289.00	0.00	0.00	0.45			
12	D	721952.61	741341.75	8.00	283.00	0.00	0.00	0.45			
13	D	721928.03	741332.50	8.00	287.00	0.00	0.00	0.45			
14	D	721875.69	741313.32	8.00	295.00	0.00	0.00	0.45			
15	D	721847.98	741303.27	8.00	292.00	0.00	0.00	0.45			
16	D	721820.03	741291.26	8.00	288.00	0.00	0.00	0.45			
35	D	722069.30	741364.25	8.00	274.00	0.00	0.00	0.45			
36	D	722097.15	741363.88	8.00	271.00	0.00	0.00	0.45			
19	D	722072.42	741346.69	8.00	86.00	0.00	0.00	0.45			
20	D	722043.52	741345.79	8.00	89.00	0.00	0.00	0.45			
21	D	722015.59	741342.02	8.00	103.00	0.00	0.00	0.45			
22	D	721989.04	741335.18	8.00	111.00	0.00	0.00	0.45			
23	D	721964.34	741326.00	8.00	119.00	0.00	0.00	0.45			
24	D	721936.88	741315.49	8.00	119.00	0.00	0.00	0.45			
25	D	721910.37	741305.51	8.00	119.00	0.00	0.00	0.45			
26	D	721882.56	741294.85	8.00	119.00	0.00	0.00	0.45			
27	D	721856.17	741284.20	8.00	119.00	0.00	0.00	0.45			
28	D	721826.68	741274.39	8.00	112.00	0.00	0.00	0.45			
29	D	721897.30	741321.45	8.00	289.00	0.00	0.00	0.45			

Horizontal Illuminance (lux)

Grid 1

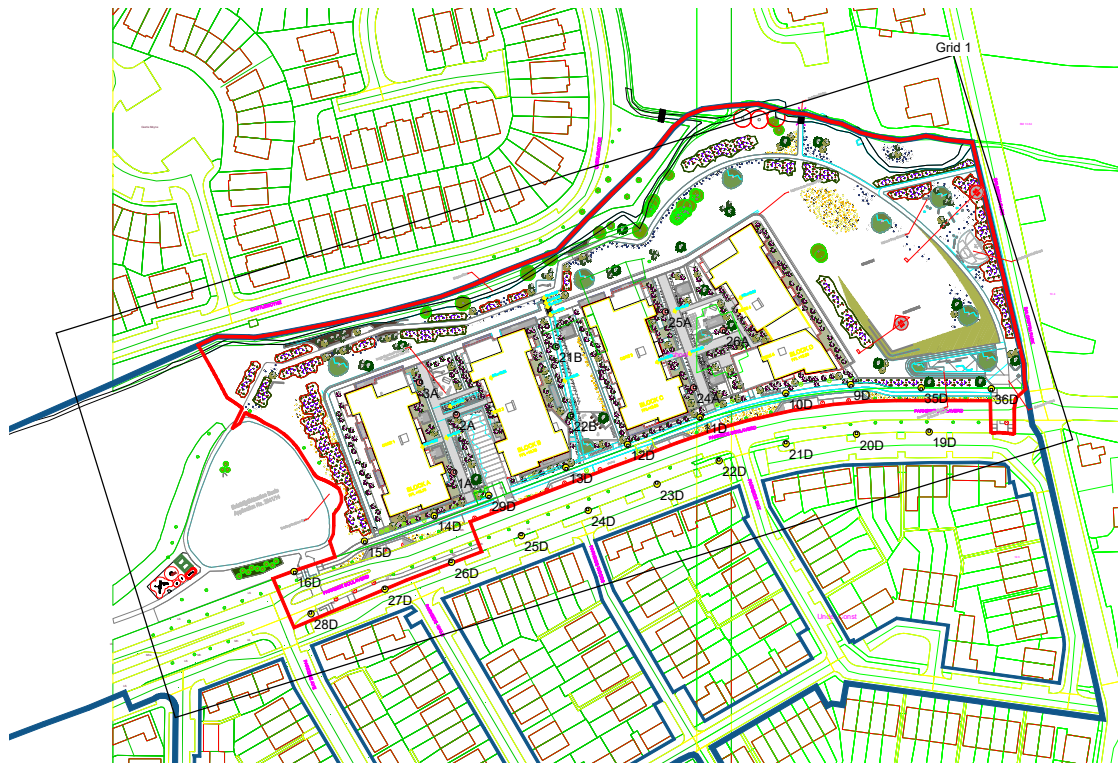


Results

Eav	5.53
Emin	1.04
E _{max}	16.50
E _{min} /E _{max}	0.06
E _{min} /E _{av}	0.19

Horizontal Illuminance (lux)

Grid 1

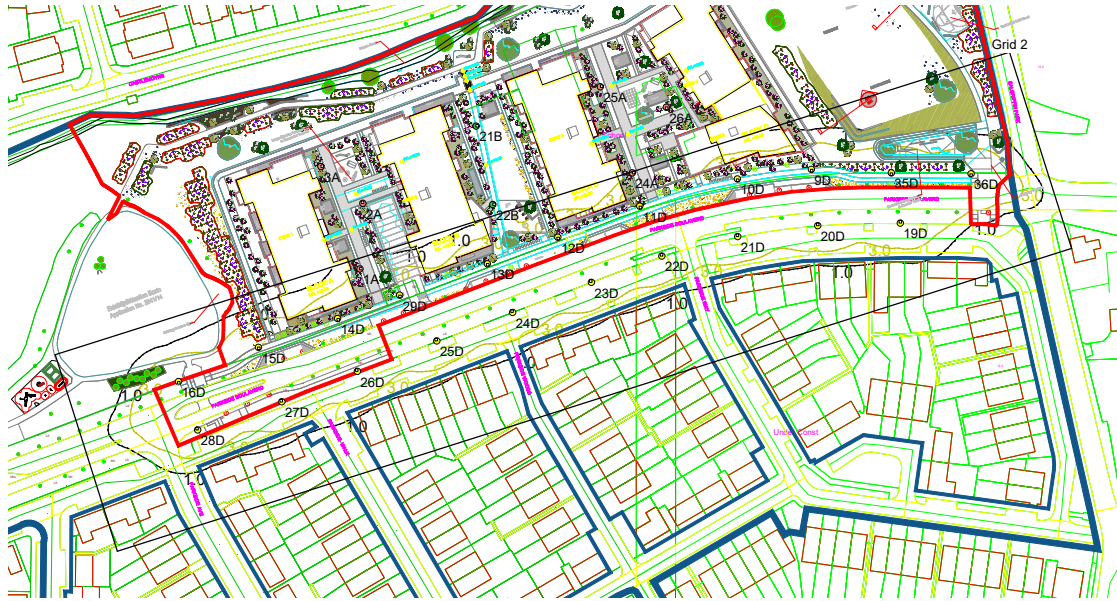


Results

Eav	5.53
Emin	1.04
Emax	16.50
Emin/Emax	0.06
Emin/Eav	0.19

Horizontal Illuminance (lux)

Grid 2

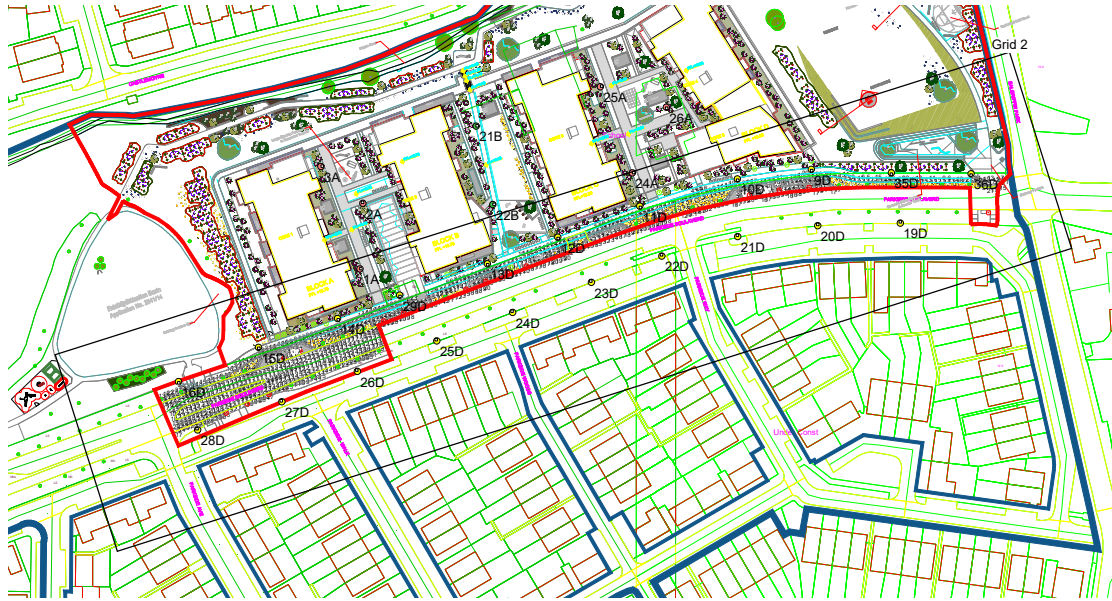


Results

Eav	19.23
Emin	4.51
E _{max}	41.56
E _{min} /E _{max}	0.11
E _{min} /E _{av}	0.23

Horizontal Illuminance (lux)

Grid 2



Results

Eav	19.23
Emin	4.51
E _{max}	41.56
Emin/E _{max}	0.11
Emin/Eav	0.23

DATE: 17 September 2019
DESIGNER: Alex Naper
PROJECT No: SES 13719
PROJECT NAME: Zebra Crossing Parkside 4 - SEHA



Zebra crossing designed in accordance with Institution of Lighting Professionals Technical Report No. 12.

Outdoor Lighting Report

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Phone Number: 01 8110875
Contact: Graham Sheehan
eMail: graham@sabrelighting.ie

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	Carpet Grid	0.00	0.00	7.70	3.00	0.77	0.75
2	Rear of Waiting Area	-1.80	0.00	3.00	1.50	1.50	0.75
3	Centre of Crossing	3.85	0.00	3.00	1.50	1.50	0.75
4	Kerb Edge	7.70	0.00	3.00	1.50	1.50	0.75

Luminares



Luminaire A Data

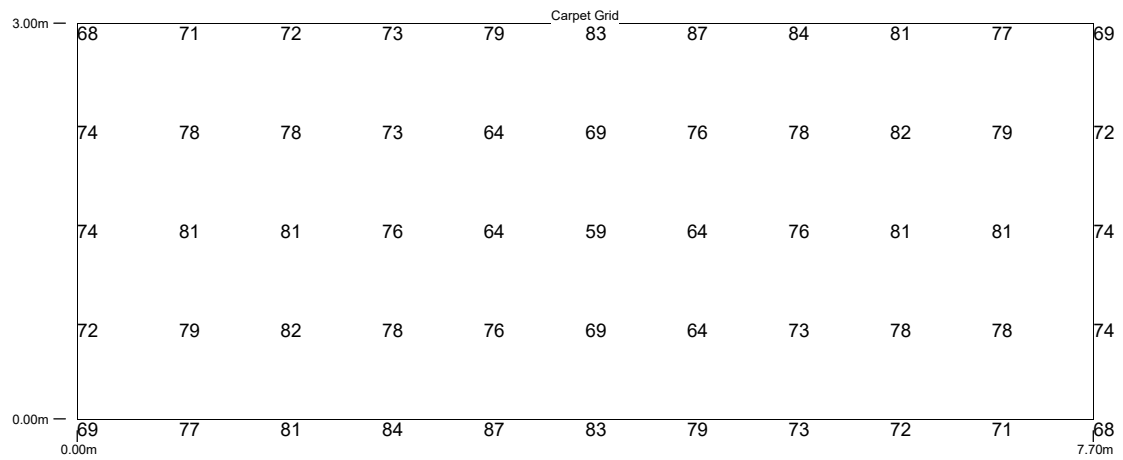
Supplier	C U Phosco
Type	P863-32-X2-CW-F0850-82W
Lamp(s)	757P CW
Lamp Flux (klm)	10.23
File Name	P863-32-X2-CW-F0850-82W.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	309.2, 30.5, 0.0
No. in Project	2

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	-0.80	-0.50	7.60	0.00	0.00	0.00	0.50			
2	A	8.50	3.50	7.60	180.00	0.00	0.00	0.50			

Horizontal Illuminance (lux)

Carpet Grid

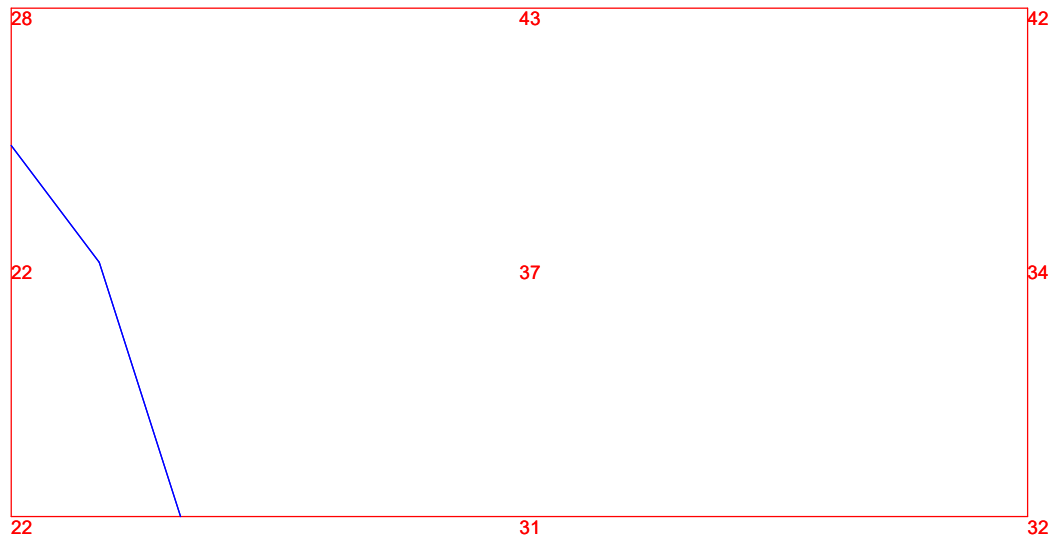


Results

Eav	75.34
Emin	59.06
Emax	87.47
Emin/Emax	0.68
Emin/Eav	0.78

Illuminance (lux)

Rear of Waiting Area

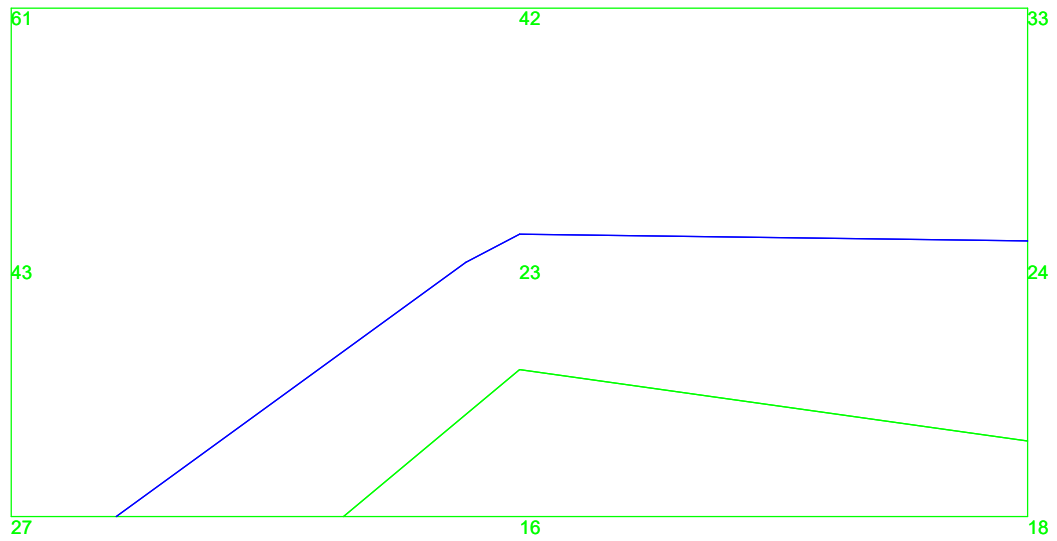


Results

Eav	32.43
Emin	21.89
Emax	42.64
Emin/Emax	0.51
Emin/Eav	0.68

Illuminance (lux)

Centre of Crossing

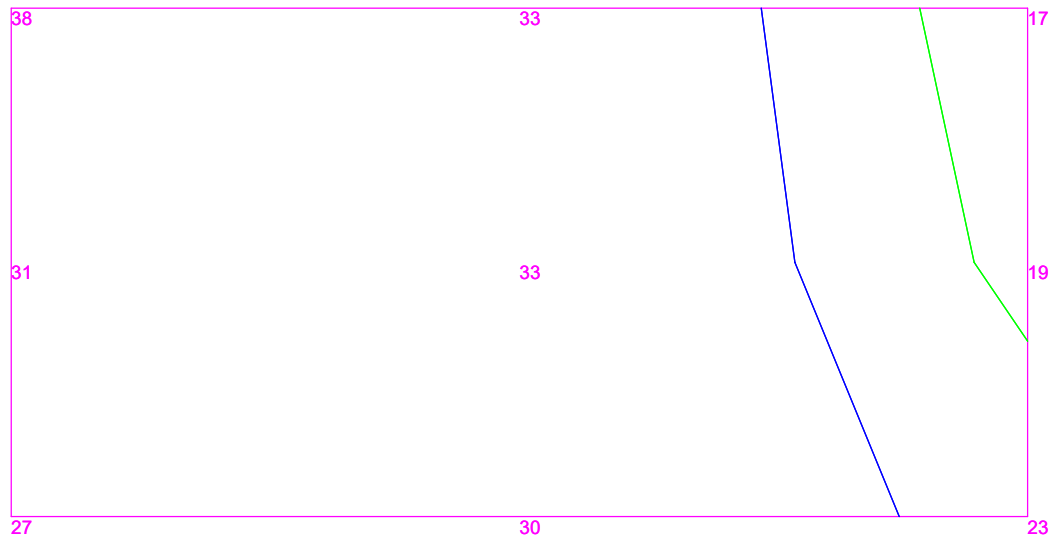


Results

Eav	32.03
Emin	16.13
Emax	60.50
Emin/Emax	0.27
Emin/Eav	0.50

Illuminance (lux)

Kerb Edge



Results

Eav	27.76
Emin	16.59
Emax	38.39
Emin/Emax	0.43
Emin/Eav	0.60