

DATE: 30 March 2021
DESIGNER: Julian Joseph
PROJECT No: 100214-JLD-S278-DC-0003A
PROJECT NAME: S278 Aldi, Gresofrd Road, LLAY



Please also refer to document
100214-JLD-S278-DC-0001 for design criteria

TR12 horizontal and vertical calculation

Required design classification illuminance values can be found at
the top of each grid page.

Outdoor Lighting Report

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Layout Report

General Data

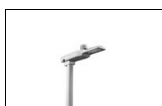
Dimensions in Metres Angles in Degrees

Calculation Grids

ID	Grid Name	X	Y	X' Length	Y' Length	X' Spacing	Y' Spacing
1	Crossing Carpet - 44.77	762.19	179.26	50.00	14.00	1.00	1.00
2	Rear of Waiting Area - Eav:...	791.19	177.06	2.05	1.50	1.03	0.75
3	Centre of Crossing - Eav: ...	789.20	172.72	2.89	1.50	1.44	0.75
4	Kerb Edge - 25.58	787.38	169.85	2.49	5.00	0.83	1.67

Luminaires

Luminaire B Data



Supplier	Urbis Schreder
Type	AXIA 3.2 5270 Integrated lenses 24 OSLO N SQUARE GIANT@500mA
Lamp(s)	24 OSLO N SQUARE GIANT@500mA NW 74 0 230V
LampFlux(klm)/Colour	5.40 NW 4000K/70
File Name	AXIA 3.2 5270 24 OSLO N SQUARE GIANT 5 00mA NW 740 37.2W 430102 Integrated len...
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	1128.1, 76.8, 0.0
No. in Project	4

Luminaire Z Data



Supplier	Urbis Schreder
Type	TECEO GEN2 1 5144 Flat, Glass Extra Clear, Smooth Zebra left
Lamp(s)	32 XP-G3@300mA NW 740 230V
LampFlux(klm)/Colour	4.27 NW 4000K/70
File Name	TECEO GEN2 1 5144 32 XP-G3 300mA NW 740 29.6W 445132 Flat, Glass Extra Clear, ...
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	80.1, 13.8, 0.0
No. in Project	2

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out- reach	Target X	Target Y	Target Z
ZC1	Z	788.56	177.92	6.00	240.00	5.00	0.00	0.40			
ZC2	Z	787.08	168.21	6.00	61.00	5.00	0.00	0.40			
5	B	781.94	182.03	8.00	241.00	0.00	0.00	0.50			
6	B	805.86	156.96	8.00	58.00	0.00	0.00	0.50			
9	B	860.25	121.13	8.00	51.00	0.00	0.00	0.50			
8	B	856.01	143.61	8.00	326.00	0.00	0.00	0.50			

Horizontal Illuminance (lux)

Crossing Carpet - 44.77

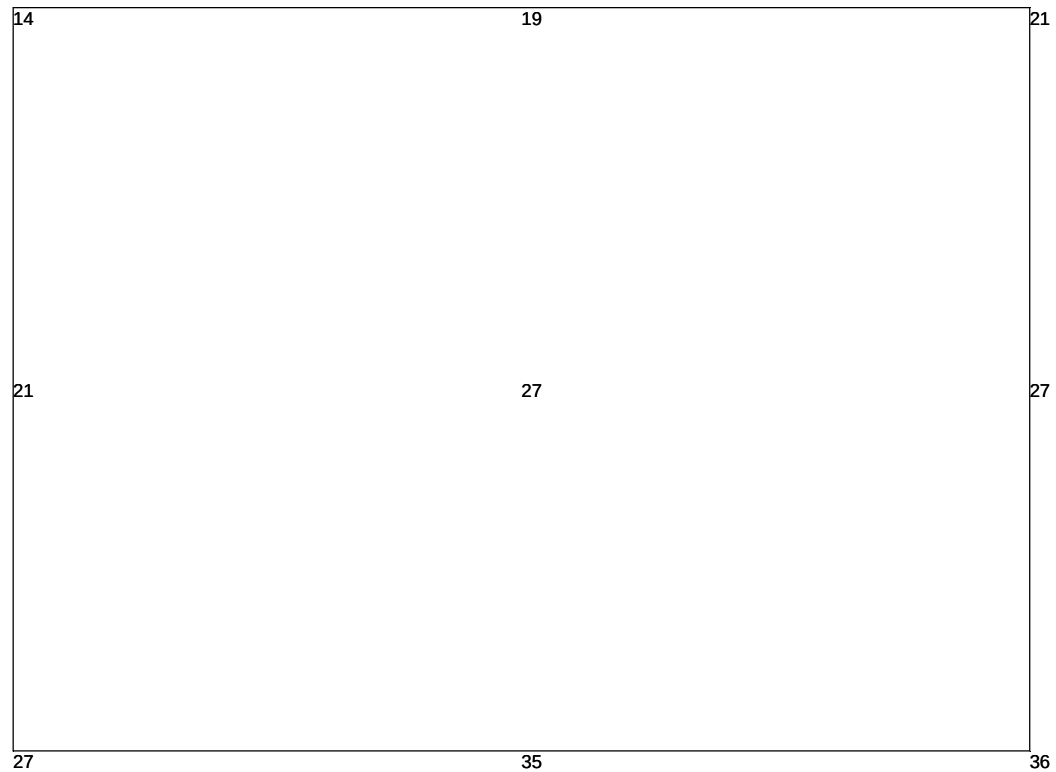


Results

Eav	73.92
Emin	59.64
Emax	85.11
Emin/Emax	0.70
Emin/Eav	0.81

Illuminance (lux)

Rear of Waitng Area - Eav: 19.19

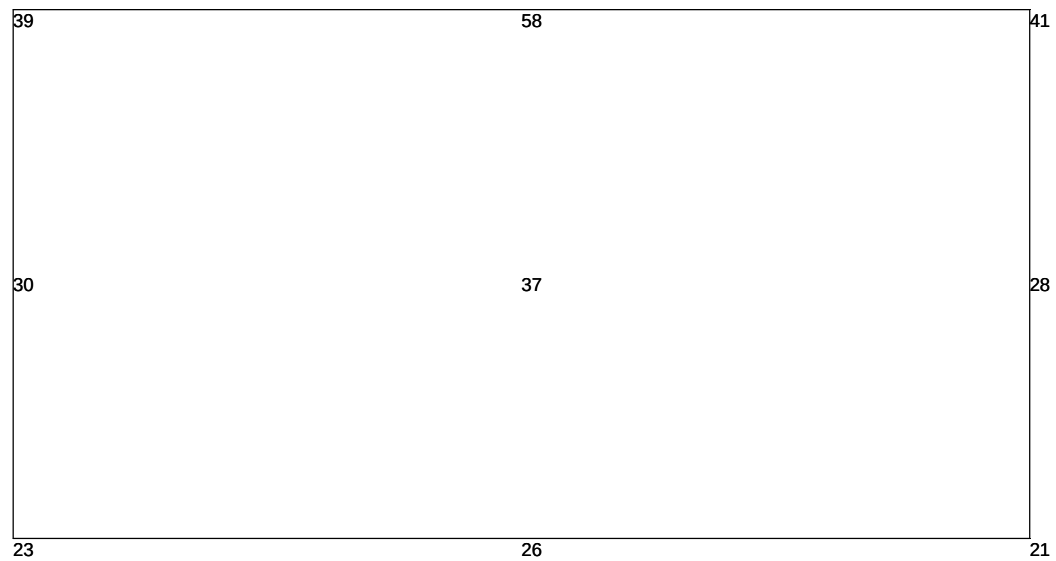


Results

Eav	25.21
Emin	13.62
Emax	35.84
Emin/Emax	0.38
Emin/Eav	0.54

Illuminance (lux)

Centre of Crossing - Eav: 25.58

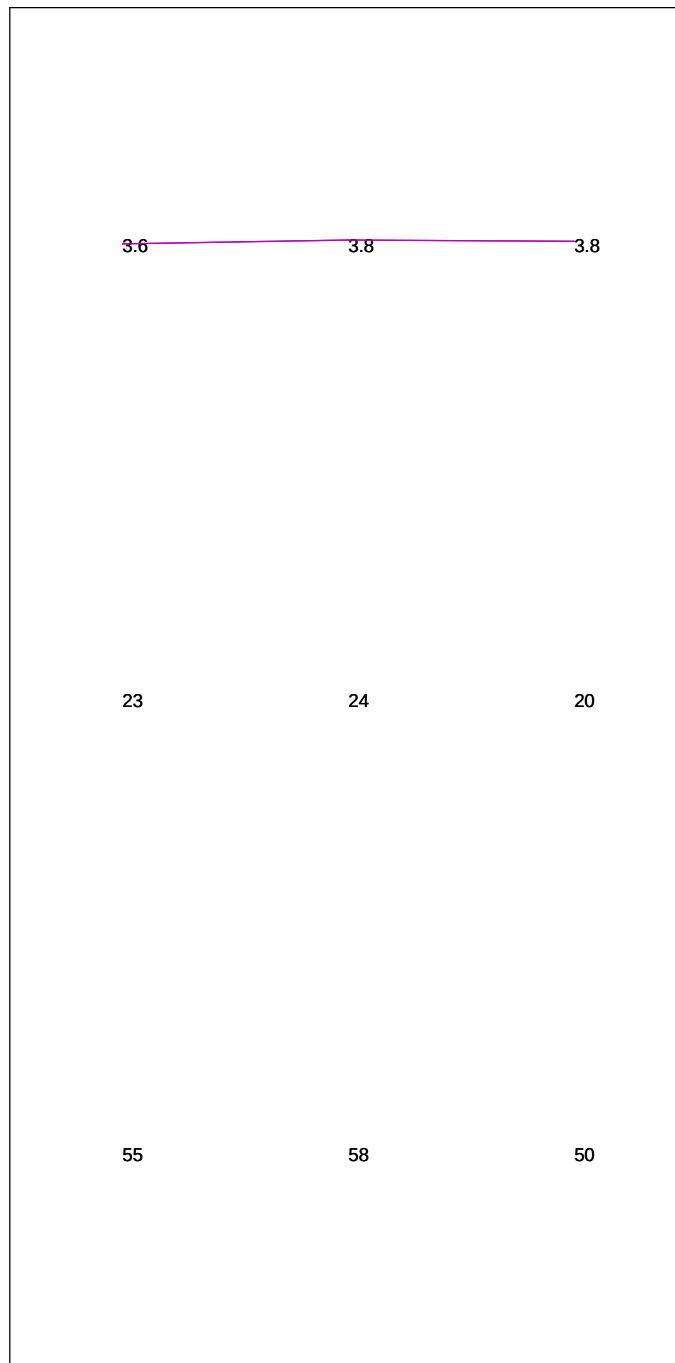


Results

Eav	33.57
Emin	21.09
Emax	57.91
Emin/Emax	0.36
Emin/Eav	0.63

Illuminance (lux)

Kerb Edge - 25.58



Results

Eav	26.73
Emin	3.61
Emax	57.58
Emin/Emax	0.06
Emin/Eav	0.14