

DATE: 10 July 2023
DESIGNER: MHL & Associates Ltd.
PROJECT No: 22103RD
PROJECT NAME: 22103RD Bloodmill Road Extension, Limerick



Lighting Classification
Bloodmill Road - M4
Bloodmill/ Amharc Muileann - C3

Outdoor Lighting Report

PREPARED BY: MHL & Associates Ltd.
Unit 1B,
The Atrium,
Blackpool,
Cork

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	560103.94	656375.29	326.01	118.25	1.50	1.50
2	Grid 2	560362.04	656199.56	374.96	123.33	1.50	1.49
3	Grid 3	560282.66	656301.53	84.50	53.33	1.48	1.48

Luminaires



Luminaire A Data

Supplier	Philips
Type	BGP293 DM70
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	14.50
File Name	LumiStreet Gen2 Medium_BGP293_DM70_14500_80LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	407.4, 472.4, 0.0
No. in Project	9



Luminaire B Data

Supplier	Philips
Type	BGP293 DM33
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	17.50
File Name	LumiStreet Gen2 Medium_BGP293_DM33_17500_80LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	292.4, 11.4, 0.0
No. in Project	2



Luminaire C Data

Supplier	Philips
Type	BGP292 DM10
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	6.00
File Name	LumiStreet Gen2 Mini_BGP292_DM10_6000_40LED_5.2S_CLO_L90_740.ies
Maintenance Factor	1.00
Imax70,80,90(cd/klm)	534.0, 55.4, 0.0
No. in Project	1

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	560537.20	656152.44	10.00	72.00	0.00	0.00	1.50			
2	A	560505.74	656166.60	10.00	70.00	0.00	0.00	1.50			
3	A	560488.46	656192.73	10.00	-122.53	0.00	0.00	1.50			
4	A	560462.50	656206.78	10.00	-122.53	0.00	0.00	1.50			
5	A	560438.22	656222.49	10.00	-122.53	0.00	0.00	1.50			
6	A	560415.29	656241.87	10.00	-122.53	0.00	0.00	1.50			
7	A	560391.90	656258.12	10.00	-122.53	0.00	0.00	1.50			
8	A	560378.45	656276.00	10.00	-122.53	0.00	0.00	1.50			

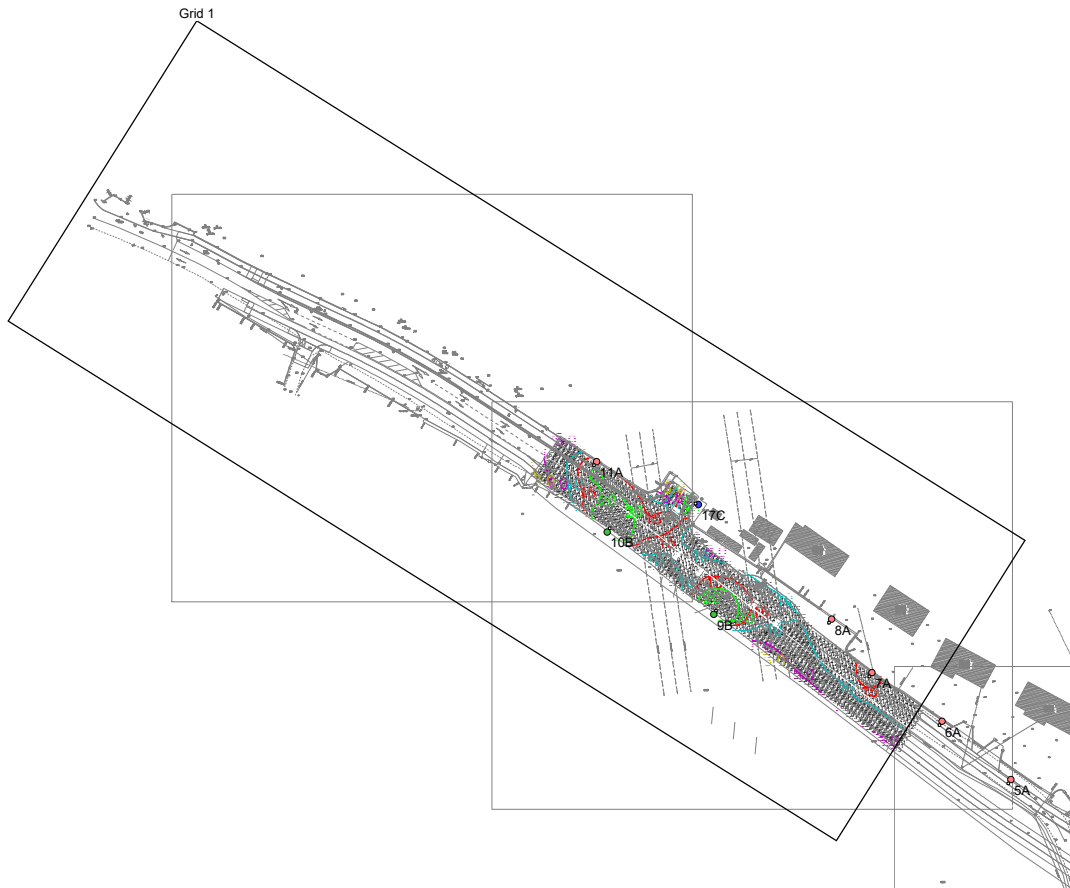


Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
9	B	560339.16	656277.57	10.00	61.00	0.00	0.00	1.50			
10	B	560303.63	656305.05	10.00	53.00	0.00	0.00	1.50			
11	A	560300.09	656328.51	10.00	235.00	0.00	0.00	1.50			
17	C	560334.10	656314.19	8.00	160.00	0.00	0.00	1.00			

Horizontal Illuminance (lux)

Grid 1

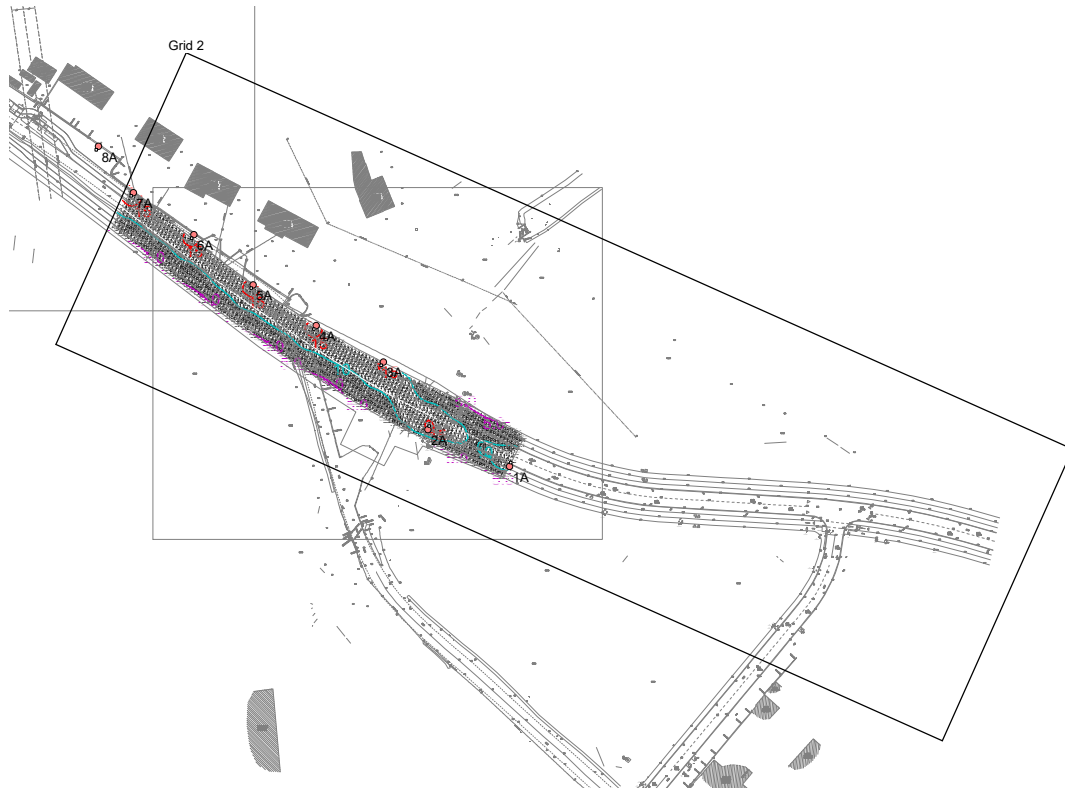


Results

Eav	12.89
Emin	2.58
E _{max}	34.01
E _{min} /E _{max}	0.08
E _{min} /E _{av}	0.20

Horizontal Illuminance (lux)

Grid 2

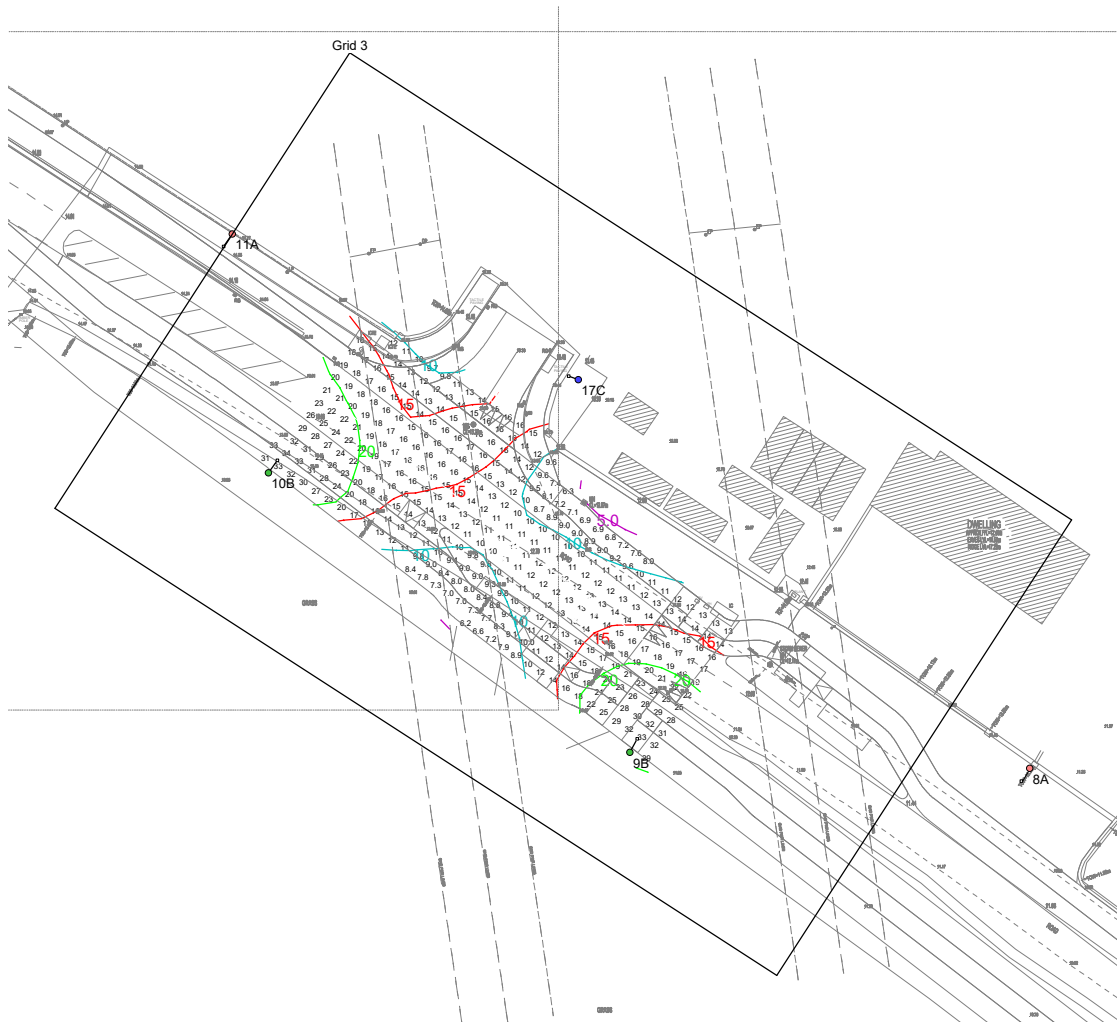


Results

Eav	10.15
Emin	4.32
E _{max}	16.99
E _{min} /E _{max}	0.25
E _{min} /E _{av}	0.43

Horizontal Illuminance (lux)

Grid 3



Results

Eav	15.36
Emin	6.18
Emax	34.11
Emin/Emax	0.18
Emin/Eav	0.40