

DATE: 16 September 2021
DESIGNER: M Bray
PROJECT No: GC/3957
PROJECT NAME: Main Street, Llanwern

**LIGHTING
REALITY**

Design layout complies with BS 5489-1:2020
and BS EN 13201:2015, Class P3

Outdoor Lighting Report

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	335747.22	186528.04	259.34	97.65	1.50	1.48
2	Grid 2	336006.56	186528.21	259.35	97.48	1.50	1.50

Luminaires

Luminaire A Data



Supplier	Thorn
Type	ISARO PRO S - 24 x Warm White 3000K L ED CRI70 500mA - EWS Opt
Lamp(s)	LED_3000K
LampFlux(klm)/Colour	4.92 3000/70
File Name	IP24L50EWS730G36_DC.LDT
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	714.5, 193.2, 0.0
No. in Project	15

Luminaire B Data



Supplier	Thorn
Type	ISARO PRO L - 60 x Warm White 3000K LE D CRI70 350mA - EWR Opt
Lamp(s)	LED_3000K
LampFlux(klm)/Colour	9.09 3000/70
File Name	IP60L35EWR730G36_DC.LDT
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	615.4, 67.1, 0.0
No. in Project	1

Luminaire E Data



Supplier	Thorn
Type	ISARO PRO S - 24 x Warm White 3000K L ED CRI70 500mA - EWS Opt
Lamp(s)	LED_3000K
LampFlux(klm)/Colour	4.92 3000/70
File Name	IP24L50EWS730G36_DC.LDT
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	714.5, 193.2, 0.0
No. in Project	2

Layout

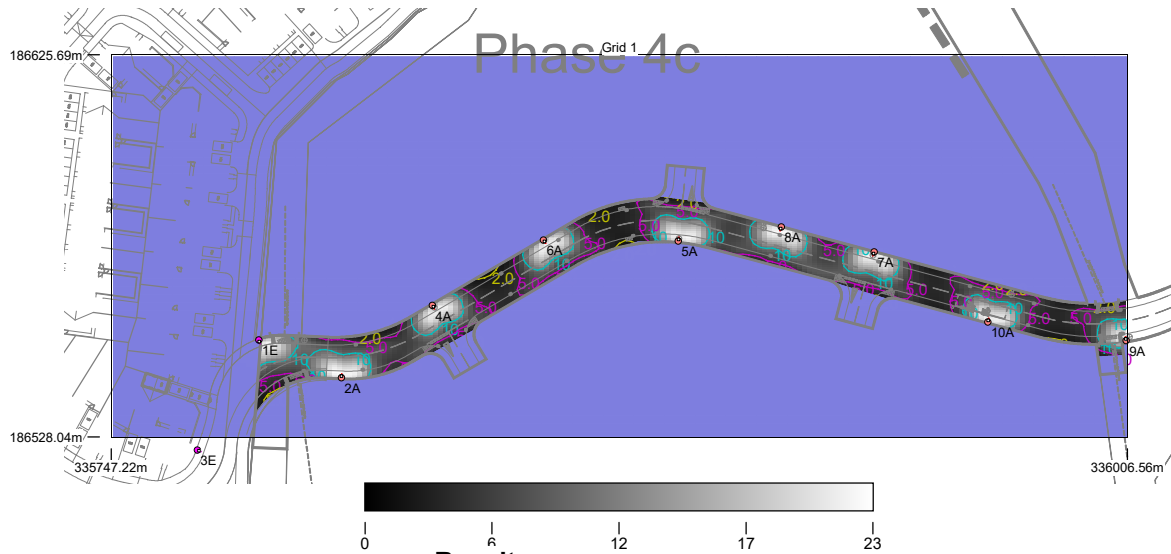
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	E	335784.84	186552.88	6.00	290.00	5.00	0.00	0.40			
2	A	335805.97	186543.26	6.00	88.00	0.00	0.00	0.40			
3	E	335769.19	186524.81	6.00	338.00	5.00	0.00	0.40			
4	A	335829.19	186561.75	6.00	299.00	0.00	0.00	0.40			
5	A	335891.87	186578.16	6.00	82.00	0.00	0.00	0.40			
6	A	335857.51	186578.42	6.00	301.00	0.00	0.00	0.40			
7	A	335941.84	186575.35	6.00	254.00	0.00	0.00	0.40			
8	A	335918.16	186581.72	6.00	254.00	0.00	0.00	0.40			
9	A	336006.14	186552.78	6.00	99.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
10	A	335970.85	186557.51	6.00	76.00	0.00	0.00	0.40			
11	A	336059.92	186583.83	6.00	297.00	0.00	0.00	0.40			
12	A	336032.14	186572.31	6.00	293.00	0.00	0.00	0.40			
13	A	336113.97	186595.92	6.00	102.00	0.00	0.00	0.40			
14	A	336086.51	186594.96	6.00	289.00	0.00	0.00	0.40			
15	A	336209.71	186562.15	6.00	238.00	0.00	0.00	0.40			
16	B	336240.74	186541.75	6.00	85.00	0.00	0.00	0.40			
17	A	336148.44	186601.37	6.00	242.00	0.00	0.00	0.40			
18	A	336173.98	186573.60	6.00	57.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1

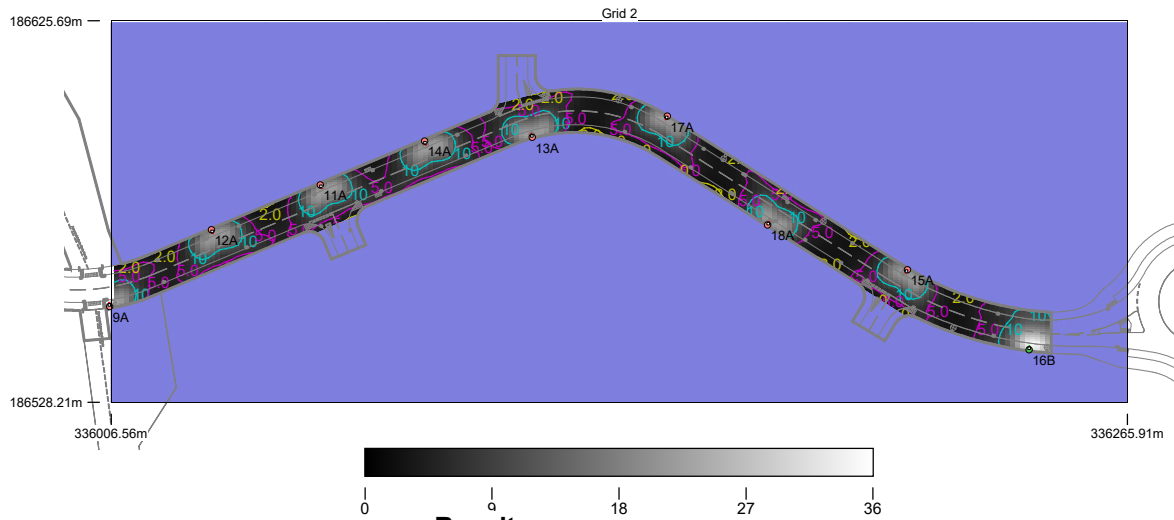


Results

Eav	8.54
Emin	1.72
Emax	23.29
Emin/Emax	0.07
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 2



Results

Eav	8.26
Emin	1.77
E _{max}	36.06
Emin/E _{max}	0.05
Emin/Eav	0.21