

DATE: 14 July 2025
DESIGNER: M Bray
PROJECT No: GC/4481
PROJECT NAME: LLanwern - Hollies 4 P03



Design layout complies with BS 5489-1:2020
& BS EN 13201:2015 Class P4

Outdoor Lighting Report

PREPARED BY: WSP UK
Quest House
St Mellons Business Park,
Fortran Rd, St. Mellons,
Cardiff,
CF3 0EY

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	336313.67	188844.68	199.02	211.42	1.50	1.50

Luminaires

Luminaire A Data



Supplier	Thorn Lighting UK & Ireland
Type	Isaro Pro Small 24LED 500mA EWR optic
Lamp(s)	LED 3000K CRI 70
LampFlux(klm)/Colour	3.70 3000/70
File Name	IP24L50EWR730.LDT
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	540.7, 73.4, 0.0
No. in Project	8

Luminaire C Data



Supplier	Thorn Lighting UK & Ireland
Type	Isaro Pro Small 24LED 700mA EWS optic
Lamp(s)	LED 3000K CRI 70
LampFlux(klm)/Colour	6.75 3000/70
File Name	IP24L70EWS730.LDT
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	660.9, 199.6, 0.0
No. in Project	7

Luminaire E Data



Supplier	Thorn Lighting UK & Ireland
Type	Isaro Pro Small 24LED 700mA EWS optic
Lamp(s)	LED 3000K CRI 70
LampFlux(klm)/Colour	6.75 3000/70
File Name	IP24L70EWS730.LDT
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	660.9, 199.6, 0.0
No. in Project	1

Layout

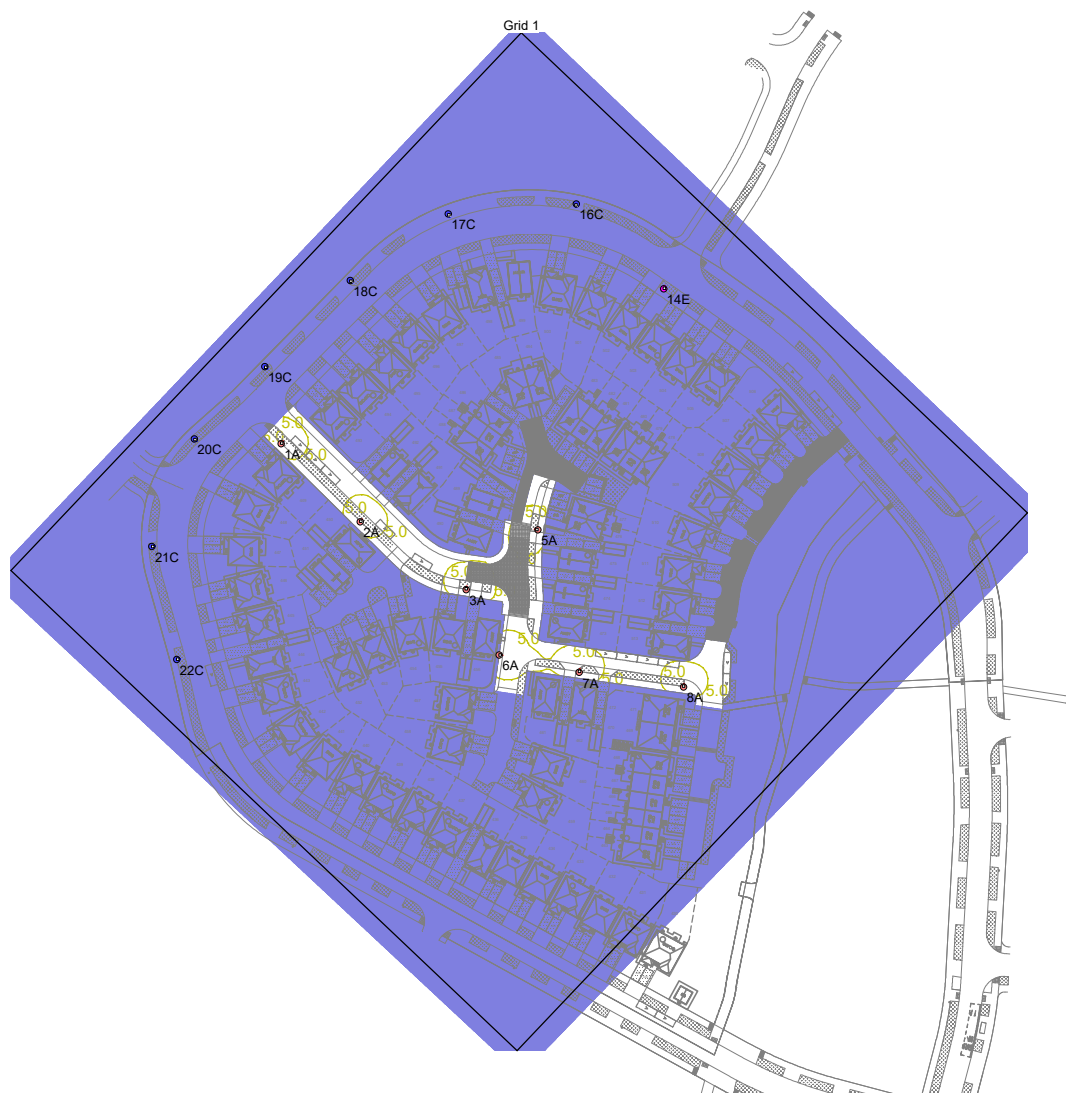
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
1	A	336390.71	188880.78	6.00	49.00	5.00	0.00	0.30	100%			
2	A	336413.24	188858.49	6.00	48.00	5.00	0.00	0.30	100%			
3	A	336443.50	188839.17	6.00	80.00	5.00	0.00	0.30	100%			
5	A	336463.97	188856.24	6.00	170.00	5.00	0.00	0.30	100%			
6	A	336452.91	188820.56	6.00	355.00	5.00	0.00	0.30	100%			
7	A	336475.72	188815.61	6.00	77.00	5.00	0.00	0.30	100%			
8	A	336505.48	188811.41	6.00	81.00	5.00	0.00	0.30	100%			
13	A	336323.87	189042.54	6.00	54.00	5.00	0.00	0.30	100%			
14	E	336499.83	188924.95	8.00	60.00	5.00	0.00	0.30	0%			
16	C	336474.90	188949.22	8.00	258.00	5.00	0.00	0.30	0%			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
17	C	336438.43	188946.34	8.00	295.00	5.00	0.00	0.30	0%			
18	C	336410.42	188927.41	8.00	315.00	5.00	0.00	0.30	0%			
19	C	336386.09	188902.84	8.00	320.00	5.00	0.00	0.30	0%			
20	C	336365.95	188882.19	8.00	320.00	5.00	0.00	0.30	0%			
21	C	336353.81	188851.49	8.00	4.00	5.00	0.00	0.30	0%			
22	C	336360.97	188819.25	8.00	12.00	5.00	0.00	0.30	0%			

Horizontal Illuminance (lux)

Grid 1



Results

Eav	5.08
Emin	1.30
Emax	13.91
Emin/Emax	0.09
Emin/Eav	0.26