

Qty	Luminaire	No of LED's	Wattage	CCT	Luminaire Lumens	LM/W	LOR	Total Luminaire Lumens	ULOR	Upward Lumens	RA	ART Hour Per	Calculation for Year
1	Stork	64 LED	130	2700	17549	134.99	100.00%	17,549	0.00%	0	70	12.0	569.400000 0.112927
3	Mini Martin (90W Drive)	24 LED	50	2700	6672.00	133.44	100.00%	20,016	0.00%	0	70	12.0	657.000000 0.130993
8	Mini Martin	16 LED	70	2700	7907.00	112.96	100.00%	63,256	0.00%	0	70	12.0	2452.800000 0.489039
5	Mini Martin	50	2700		6101.00	122.02	100.00%	30,505	0.00%	0	70	12.0	1095.000000 0.218321
1	Mini Martin	16 LED	35	2700	4327.00	123.63	100.00%	4,327	0.00%	0	70	12.0	153.300000 0.030565
35	Finn (PW)	12 LED	8	2700	859.00	107.38	100.00%	30,065	2.90%	872	80	12.0	1226.400000 0.244520

Total Lumens 165,718

Total Upward Lumens 872
Total ULR 0.53%

Table 1 compliance

Environmental zone E3

Sky Glow	Target	Achieved	Status
	5.00%	0.31%	Pass

Source Intensity (candelas)			
Pre curfew	10,000	0	Pass
Post curfew	1,000	0	Pass

Light Trespass into windows (Lux)			
Pre curfew	10	0	Pass
Post curfew	2	0	Pass

Building Luminance (cd/m²)			
	10	0	Pass

Compliance Status:		
Enr 04	Reduction of night time light pollution	Pass
Enr 03	Energy efficient external lighting	Pass
Enr 01	Internal and external lighting levels	Pass

Total CO₂ per year (Tonnes) 1.2270

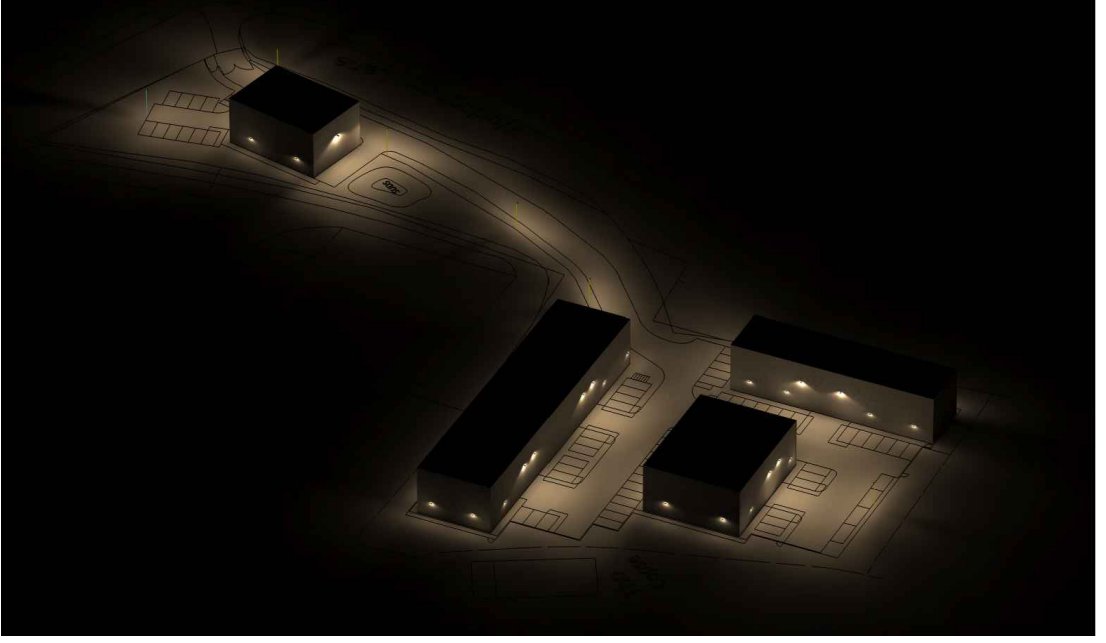
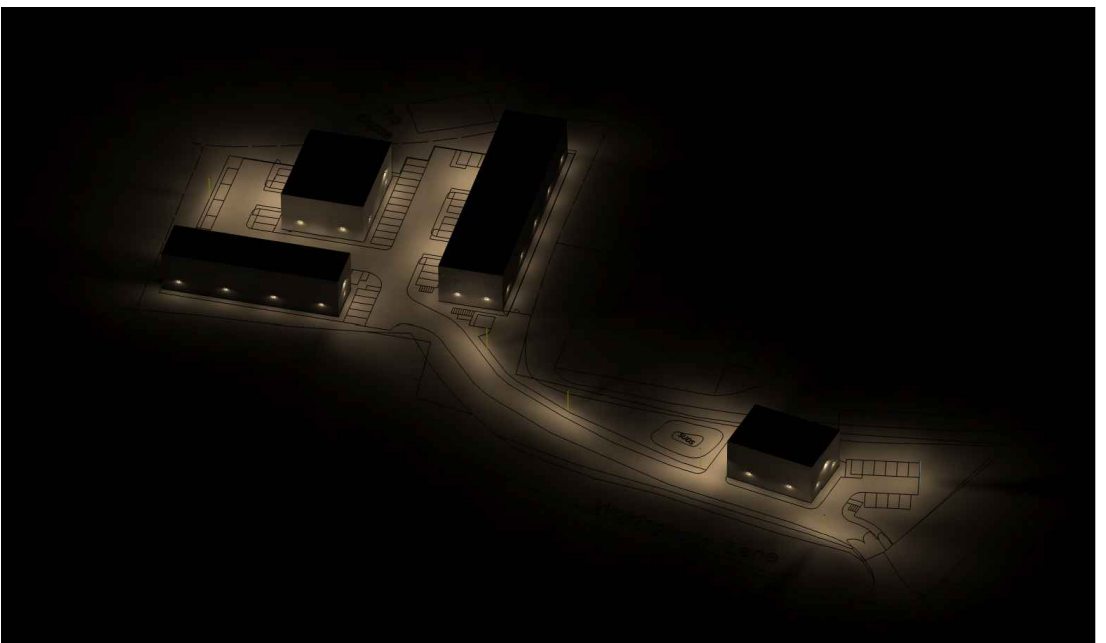
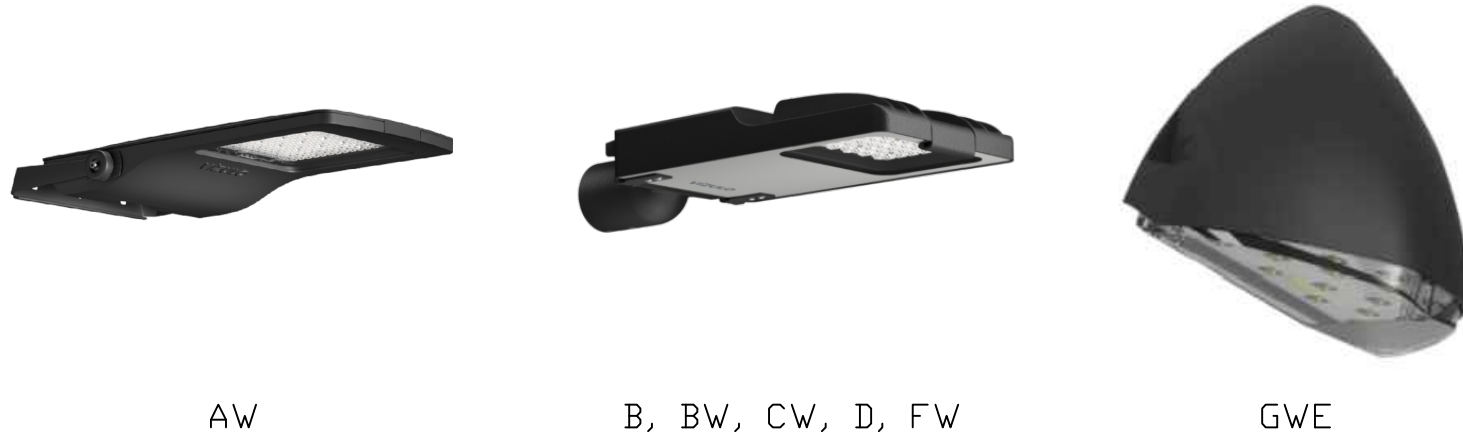
Total Electrical Consumption per hr (Kwh) 1.405

Total Electrical consumption per year (Kwh) 6,153.90

Average luminaire lumens per circuit Watt per hr 117.95

Symbol	Qty	Label	Arrangement	Description	LLF	Luminaire	Mounting	[DIMENSIONS]
	1	AW	Single	130w LED 2700K Stork 64 LED with 135 Optic wall mounted	0.900	130	6	VIDEO by Lighting Project Solutions
	1	B	Single	50w LED 2700K Mini Martin 24 LED with 125 Optic column mounted	0.900	50	6	VIDEO by Lighting Project Solutions
	2	BW	Single	50w LED 2700K Mini Martin 24 LED with 135 Optic wall mounted	0.900	50	6	VIDEO by Lighting Project Solutions
	9	CW	Single	70w LED 2700K Mini Martin 16 LED with 135 Optic wall mounted	0.900	70	6	VIDEO by Lighting Project Solutions
	5	D	Single	50w LED 2700K Mini Martin 16 LED with 122 Optic column mounted	0.900	50	6	VIDEO by Lighting Project Solutions
	1	FW	Single	35w LED 2700K Mini Martin 16 LED with 122 Optic wall mounted	0.900	35	6	VIDEO by Lighting Project Solutions
	35	GWE	Single	8w LED 2700K Finn Bulkhead with Pathway Optic wall mounted	0.900	7.8	3	Lighting Project Solutions

Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max	Description
Access Road	Illuminance	Lux	18	63	6	0.33	0.10	
Unit 1 Parking	Illuminance	Lux	29	39	11	0.48	0.28	
Unit 1 Perimeter	Illuminance	Lux	21	39	7	0.39	0.18	
Unit 1 Service Yard	Illuminance	Lux	33	70	27	0.51	0.39	
Unit 2 Parking	Illuminance	Lux	30	33	14	0.47	0.26	
Unit 2 Service Yard	Illuminance	Lux	52	61	38	0.73	0.62	
Unit 2 to 5 Perimeter	Illuminance	Lux	17	48	5	0.30	0.10	
Unit 2 to 5 Shared Parking	Illuminance	Lux	21	30	8	0.39	0.16	
Unit 3 Parking	Illuminance	Lux	31	47	21	0.68	0.43	
Unit 3 Service Yard	Illuminance	Lux	52	61	39	0.75	0.64	
Unit 4 Parking	Illuminance	Lux	31	47	21	0.68	0.43	
Unit 4 Service Yard	Illuminance	Lux	51	60	38	0.75	0.63	
Unit 5 Parking	Illuminance	Lux	30	49	13	0.44	0.27	
Unit 5 Service Yard	Illuminance	Lux	51	60	38	0.75	0.63	
Unit 6 Parking	Illuminance	Lux	31	48	14	0.51	0.33	
Unit 6 Service Yard	Illuminance	Lux	52	60	43	0.82	0.72	
Unit 6 to 7 Perimeter	Illuminance	Lux	29	53	6	0.26	0.11	
Unit 6 to 7 Shared Parking	Illuminance	Lux	32	48	14	0.50	0.33	
Unit 7 Parking	Illuminance	Lux	36	54	23	0.63	0.43	
Unit 7 Service Yard	Illuminance	Lux	55	62	45	0.82	0.73	
Unit 8 Parking	Illuminance	Lux	25	56	8	0.30	0.14	
Unit 8 Service Yard	Illuminance	Lux	51	56	49	0.96	0.88	
Unit 8 to 9 Perimeter	Illuminance	Lux	20	51	7	0.35	0.14	
Unit 9 Parking	Illuminance	Lux	21	43	7	0.33	0.16	
Unit 9 Service Yard	Illuminance	Lux	46	49	40	0.88	0.82	



Lighting Project Solutions
The Outdoor Lighting Specialists



Designer: Mark Hudd

Scale @ A0:

1:250

Boundoak Industrial Arborfield Green

Drawing No:2505004DNA

We use a 0.9 Maintenance Factor as standard, please let us know if this differs from the maintenance schedule so we can design accordingly.

Date

06/05/2025

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