Dimensions are not to be scaled from this drawing

Luminaire Schedule

Symbol	Qty	Label	Arrangement	LLF	Description	Luminaire LW	UGR,X	TM65 & TM66 Information	Total Watts
	12	CHI	Single	0.900	120W LED 4000K VIVA-CITY Fixed 8150x6 with PWTD forward throw optic Wall mounted at 8m	118	0.00		1440
	5	D	Single	0.900	180W VIVA-CITY Pro 4000K 8854x6 PWTD forward throw optic column mounted at 8m	197	0.00		985
	1	B	Single	0.900	120W VIVA-CITY Pro 4000K 9250x4 PWTD forward throw optic column mounted at 8m	148	0.00		120
	13	AIII	Single	0.900	60W LED 4000K VIVA-CITY Flood 8150x6 with PWTD forward throw optic wall mounted at 8m	116	0.00		780
	11	CIII	Single	0.900	6W LED 4000K 200mA SEMITA Urban with OC path optic wall mounted at 3.5m	138	0.00		186
	5	D	Single	0.900	120W LED 4000K VIVA-CITY Fixed 8150x6 with PWTD forward throw optic column mounted at 8m	116	0.00		1080
	1	E (Feature)	Single	0.900	60W LED 4000K VIVA-CITY Pro 8150x6 with PWTD forward throw optic column mounted at 8m	148	0.00		180
	1	F (Feature)	Single	0.900	60W LED 4000K VIVA-CITY Pro 8150x6 with AVTD wide optic column mounted at 8m	167	0.00		240

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Uniformity (Min/Avg)	Diversity (Min/Max)	Meter Type	Description
Estate Road	Illuminance	Lux	28.85	55	8	0.28	0.14	Horizontal	
Unit 4 Perimeter	Illuminance	Lux	16.07	46	6	0.41	0.12	Horizontal	
Unit 1 Car Park	Illuminance	Lux	42.51	112	17	0.40	0.15	Horizontal	
Unit 1 Cycle & Motor Park	Illuminance	Lux	26.58	48	16	0.60	0.33	Horizontal	
Unit 1 Perimeter	Illuminance	Lux	15.20	56	4	0.26	0.07	Horizontal	
Unit 1 Service Yard	Illuminance	Lux	47.42	72	19	0.40	0.26	Horizontal	
Unit 2 Car Park	Illuminance	Lux	50.43	81	29	0.58	0.36	Horizontal	
Unit 2 Cycle & Motor Park	Illuminance	Lux	37.68	87	23	0.60	0.26	Horizontal	
Unit 2 Perimeter	Illuminance	Lux	17.27	42	5	0.28	0.12	Horizontal	
Unit 2 Service Yard	Illuminance	Lux	44.28	106	18	0.41	0.17	Horizontal	
Unit 3 Car Park	Illuminance	Lux	59.75	84	16	0.42	0.19	Horizontal	
Unit 3 Cycle & Motor Park	Illuminance	Lux	40.77	88	29	0.58	0.41	Horizontal	
Unit 3 Perimeter	Illuminance	Lux	19.04	58	5	0.26	0.08	Horizontal	
Unit 3 Service Yard	Illuminance	Lux	40.67	81	17	0.42	0.19	Horizontal	
Unit 4 Car Park	Illuminance	Lux	44.28	154	18	0.41	0.17	Horizontal	
Unit 4 Cycle & Motor Park	Illuminance	Lux	42.02	98	28	0.66	0.47	Horizontal	
Unit 4 Service Yard	Illuminance	Lux	47.17	100	22	0.52	0.22	Horizontal	
Unit 5 Perimeter	Illuminance	Lux	28.69	41	20	0.70	0.49	Horizontal	
Unit 6 Perimeter	Illuminance	Lux	23.00	28	21	0.91	0.75	Horizontal	
Unit 7 Perimeter	Illuminance	Lux	12.15	39	4	0.33	0.10	Horizontal	
Units 5-7 Cycle & Motor Park	Illuminance	Lux	34.90	107	30	0.86	0.84	Horizontal	
Units 5-7 Parking & Yard Areas	Illuminance	Lux	38.91	107	17	0.43	0.16	Horizontal	

Project Number D52510 Project Title - Units 1-7 Rockingham, Barnsley Date 08/04/2025

Kingfisher Lighting

BREEAM®

Darksky Approved Luminaire	Luminaire Image	Qty	Luminaire	Light Source	Watts (W)	Luminaire Lumens (lm)	Lm/W	LOR	Total Lumens	DLOR	Upward Lumens	Light Engine: Colour Temperature (K)	Light Engine: L Value	Light Engine: B Value	Light Engine: Rated Life (Hrs)	Light Engine: CRI	ILP GN01 - Table 1 & Table 7: Beam Angle	ILP GN01 - Table 1 & Table 7: Sky Glow Effect	ILP GN01 - Table 1 & Table 7: Glare Effect	ILP GN01 - Table 1 & Table 7: Source Intensity (cd/1000 lm (Bat' lm; >90°)	Bollards Only 4 Criteria: Luminance between 0.5cd/m² & 1cd/m²	CO² Calculation For A Year: * ART Hour Per Day	CO² (Tonnes)	Km/Year
		1	VIVA-CITY Pro	vcp - 120w LED FW70	120.0	17760	148.00	100%	17760	0.0%	0	4000	180	820	100,000	170	70°	Minimum	Some	4873	n/a	12	0.11	525.80
		3	VIVA-CITY Pro	vcp - 60w LED FW70	60.0	8760	146.00	100%	26280	0.0%	0	4000	180	820	100,000	170	70°	Minimum	Some	2403	n/a	12	0.16	786.40
		11	SEMITA Urban	smu - 6w LED OC	6.0	802	133.67	100%	24862	0.0%	0	4000	180	810	100,000	170	70°	Minimum	Some	107	n/a	12	0.17	814.68
		21	VIVA-CITY Flood	vcf - 120w LED FW70	120.0	14002	116.68	100%	294042	0.0%	0	4000	180	820	100,000	170	70°	Minimum	Some	3842	n/a	12	2.26	11037.60
		4	VIVA-CITY Pro	vcp - 60w LED AVT9	60.0	8844	147.40	100%	35376	0.0%	0	4000	180	820	100,000	170	67.5°	Minimum	Some	1458	n/a	12	0.22	1051.20
		5	VIVA-CITY Pro	vcp - 180w LED FW70	180.0	24660	137.00	100%	123300	0.0%	0	4000	180	820	100,000	170	70°	Minimum	Some	6781	n/a	12	0.81	3942.00
		13	VIVA-CITY Flood	vcf - 60w LED FW70	60.0	7001	116.68	100%	91013	0.0%	0	4000	180	820	100,000	170	70°	Minimum	Some	1920	n/a	12	0.70	3416.40

BREEAM Summary

GN01 - 2021

** Environmental Zone to be confirmed by assessor **

Environmental Zone	E1

Upward Light Ratio (ULR) - Table 6	Target	Achieved	Status
	5.0%	0.0%	Pass

**"Note"* - Not a BREEAM requirement for Cut-Off Lanterns (See POLE Assement Criteria above)

Table 7 - Source Intensity (Candelas)			
Pre Curfew - A_{Δ} <0.5	10,000		Pass
Pre Curfew - A_{Δ} >0.5	1,000		Pass

Table 3 - Light Trespass Into Windows (Lux)			
Pre Curfew	10		Pass
Post Curfew	2		Pass

Total Installation Lumens	612603	Total Upward Light 0.0%
Total CO2 Per Year (Tonnes)		4
Total Electric Consumption (Kw)		5
Total Electric Consumption Per Year (Kwh)		21576
Average Luminaire Lumens Per Circuit Watt		124

Compliance Status Summary		
Pol 04	Reduction Of Night Time Light Pollution	Pass
Ene 03	Energy Efficient External Lighting	Pass
Hea 01	Internal And External Lighting Levels	Pass

Note - HEA01 In this report only applies to exterior lighting
* ART = (Average Run Time)

Date 08/04/2025

Rev	Description	Date

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Client:

BDB DESIGN BUILD LTD

Project:

CMS Rockingham
Kestral Way, Birdwell
S70 5SZ

Drawing Title:

SITE WIDE
EXTERNAL LIGHTING LAYOUT

CAD: PMS	CHK PS	Date: 01/04/25
Drawing Status: PROPOSED		Scale @ A1 1:100
Drawing 1915-E-LL--EX		Revision: P1