



Client: Glenveagh Homes LTD
 Project ref: Mooretown Phase 2
 Document ref: Energy Consumption Calculation
 Issue Date: May-26
 Revision: 00

Luminaire Burning Hours:	Annual Total 8760	Dusk to dawn 4150	Dusk to midnight 2600	Midnight to dawn 1550
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PL-01-C1

No. luminaires	6	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		170	150	
Watts per luminaire (Average)		28.33	25.00	
Watts per luminaire (incl PF)		31	28	
Circuit 1 total watts		189	167	
Circuit total annual kwh		491	258	749

PL-01-C2

No. luminaires	5	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		147	100	
Watts per luminaire		29.40	25.00	
Watts per luminaire (incl PF)		33	28	
Circuit 1 total watts		163	111	
Circuit total annual kwh		425	172	597

PL-01-C3

No. luminaires	4	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		124	150	
Watts per luminaire		31.00	25.00	
Watts per luminaire (incl PF)		34	28	
Circuit 1 total watts		138	167	
Circuit total annual kwh		358	258	617



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PL-02-C1

No. luminaires	5	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		155	75	
Watts per luminaire		31.00	25.00	
Watts per luminaire (incl PF)		34	28	
Circuit 1 total watts		172	83	
Circuit total annual kwh		448	129	577

PL-03-C1

No. luminaires	3	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		85	75	
Watts per luminaire		28.33	25.00	
Watts per luminaire (incl PF)		31	28	
Circuit 1 total watts		94	83	
Circuit total annual kwh		246	129	375

PL-03-C2

No. luminaires	2	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		62	150	
Watts per luminaire		31.00	25.00	
Watts per luminaire (incl PF)		34	28	
Circuit 1 total watts		69	167	
Circuit total annual kwh		179	258	437



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PL-03-C3

No. luminaires	1	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		31	75	
Watts per luminaire		31.00	25.00	
Watts per luminaire (incl PF)		34	28	
Circuit 1 total watts		34	83	
Circuit total annual kwh		90	129	219

PL-04-C1

No. luminaires	4	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		120	150	
Watts per luminaire		30.00	25.00	
Watts per luminaire (incl PF)		33	28	
Circuit 1 total watts		133	167	
Circuit total annual kwh		347	258	605

PL-04-C2

No. luminaires	4	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		120	125	
Watts per luminaire		30.00	25.00	
Watts per luminaire (incl PF)		33	28	
Circuit 1 total watts		133	139	
Circuit total annual kwh		347	215	562



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PL-05-C1

No. luminaires	2	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		62	150	
Watts per luminaire		31.00	25.00	
Watts per luminaire (incl PF)		34	28	
Circuit 1 total watts		69	167	
Circuit total annual kwh		179	258	437

PL-05-C2

No. luminaires	4	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		120	150	
Watts per luminaire		30.00	25.00	
Watts per luminaire (incl PF)		33	28	
Circuit 1 total watts		133	167	
Circuit total annual kwh		347	258	605

PL-06-C1

No. luminaires	3	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		85	125	
Watts per luminaire		28.33	25.00	
Watts per luminaire (incl PF)		31	28	
Circuit 1 total watts		94	139	
Circuit total annual kwh		246	215	461



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PL-06-C2

No. luminaires	6	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		178	75	
Watts per luminaire		29.67	25.00	
Watts per luminaire (incl PF)		33	28	
Circuit 1 total watts		198	83	
Circuit total annual kwh		514	129	643

PL-06-C3

No. luminaires	3	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		85	125	
Watts per luminaire		28.33	25.00	
Watts per luminaire (incl PF)		31	28	
Circuit 1 total watts		94	139	
Circuit total annual kwh		246	215	461

PL-07-C1

No. luminaires	4	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		120	75	
Watts per luminaire		30.00	25.00	
Watts per luminaire (incl PF)		33	28	
Circuit 1 total watts		133	83	
Circuit total annual kwh		347	129	476



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PL-07-C2

No. luminaires	2	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		62	100	
Watts per luminaire		31.00	25.00	
Watts per luminaire (incl PF)		34	28	
Circuit 1 total watts		69	111	
Circuit total annual kwh		179	172	351

PL-07-C3

No. luminaires	6	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		166	75	
Watts per luminaire		27.67	25.00	
Watts per luminaire (incl PF)		31	28	
Circuit 1 total watts		184	83	
Circuit total annual kwh		480	129	609

PL-08-C1

No. luminaires	6	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		178	100	
Watts per luminaire		29.67	25.00	
Watts per luminaire (incl PF)		33	28	
Circuit 1 total watts		198	111	
Circuit total annual kwh		514	172	686

PL-08-C2

No. luminaires	3	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	



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	Annual Total	Dusk to dawn	Dusk to midnight	Midnight to dawn
Luminaire Burning Hours:	8760	4150	2600	1550
Circuit total Power (W)		85	50	
Watts per luminaire		28.33	25.00	
Watts per luminaire (incl PF)		31	28	
Circuit 1 total watts		94	56	
Circuit total annual kwh		246	86	332



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PL-08-C3

No. luminaires	5	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		155	75	
Watts per luminaire		31.00	25.00	
Watts per luminaire (incl PF)		34	28	
Circuit 1 total watts		172	83	
Circuit total annual kwh		448	129	577

PL-09-C1

No. luminaires	6	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		178	175	
Watts per luminaire		29.67	25.00	
Watts per luminaire (incl PF)		33	28	
Circuit 1 total watts		198	194	
Circuit total annual kwh		514	301	816

PL-09-C2

No. luminaires	6	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		186	125	
Watts per luminaire		31.00	25.00	
Watts per luminaire (incl PF)		34	28	
Circuit 1 total watts		207	139	
Circuit total annual kwh		537	215	753