



Client: Glenveagh Homes LTD
Project ref: Ballymastone Phase 3
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	5	Dusk to midnight	Midnight to dawn	Total
Lighting class		P5	P5	
Circuit total Power (W)		65	65	
Watts per luminaire (Average)		13.00	13.00	
Watts per luminaire (incl PF)		14	14	
Circuit 1 total watts		72	72	
Circuit total annual kwh		188	112	300

PL-01-C2

No. luminaires	5	Dusk to midnight	Midnight to dawn	Total
Lighting class		P5	P5	
Circuit total Power (W)		85	85	
Watts per luminaire		17.00	17.00	
Watts per luminaire (incl PF)		19	19	
Circuit 1 total watts		94	94	
Circuit total annual kwh		246	146	392

PL-01-C3

No. luminaires	3	Dusk to midnight	Midnight to dawn	Total
Lighting class		P5	P5	
Circuit total Power (W)		27	27	
Watts per luminaire		9.00	9.00	
Watts per luminaire (incl PF)		10	10	
Circuit 1 total watts		30	30	
Circuit total annual kwh		78	47	125



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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)		174	174	
Watts per luminaire		34.80	34.80	
Watts per luminaire (incl PF)		39	39	
Circuit 1 total watts		193	193	
Circuit total annual kwh		503	300	802

PL-02-C2

No. luminaires	2	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		38	38	
Watts per luminaire		19.00	19.00	
Watts per luminaire (incl PF)		21	21	
Circuit 1 total watts		42	42	
Circuit total annual kwh		110	65	175

PL-02-C3

No. luminaires	5	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		125	125	
Watts per luminaire		25.00	25.00	
Watts per luminaire (incl PF)		28	28	
Circuit 1 total watts		139	139	
Circuit total annual kwh		361	215	576



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PL-03-C1

No. luminaires	6	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		174	174	
Watts per luminaire		29.00	29.00	
Watts per luminaire (incl PF)		32	32	
Circuit 1 total watts		193	193	
Circuit total annual kwh		503	300	802

PL-03-C2

No. luminaires	5	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		145	145	
Watts per luminaire		29.00	29.00	
Watts per luminaire (incl PF)		32	32	
Circuit 1 total watts		161	161	
Circuit total annual kwh		419	250	669

PL-04-C1

No. luminaires	3	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		87	87	
Watts per luminaire		29.00	29.00	
Watts per luminaire (incl PF)		32	32	
Circuit 1 total watts		97	97	
Circuit total annual kwh		251	150	401



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PL-04-C2

No. luminaires	6	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		134	134	
Watts per luminaire		22.33	22.33	
Watts per luminaire (incl PF)		25	25	
Circuit 1 total watts		149	149	
Circuit total annual kwh		387	231	618

PL-05-C1

No. luminaires	5	Dusk to midnight	Midnight to dawn	Total
Lighting class		P5	P5	
Circuit total Power (W)		45	45	
Watts per luminaire		9.00	9.00	
Watts per luminaire (incl PF)		10	10	
Circuit 1 total watts		50	50	
Circuit total annual kwh		130	78	208

PL-05-C2

No. luminaires	6	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		174	174	
Watts per luminaire		29.00	29.00	
Watts per luminaire (incl PF)		32	32	
Circuit 1 total watts		193	193	
Circuit total annual kwh		503	300	802



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PL-05-C3

No. luminaires	6	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		114	114	
Watts per luminaire		19.00	19.00	
Watts per luminaire (incl PF)		21	21	
Circuit 1 total watts		127	127	
Circuit total annual kwh		329	196	526

PL-06-C1

No. luminaires	2	Dusk to midnight	Midnight to dawn	Total
Lighting class		P5	P5	
Circuit total Power (W)		18	18	
Watts per luminaire		9.00	9.00	
Watts per luminaire (incl PF)		10	10	
Circuit 1 total watts		20	20	
Circuit total annual kwh		52	31	83

PL-07-C1

No. luminaires	5	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		145	145	
Watts per luminaire		29.00	29.00	
Watts per luminaire (incl PF)		32	32	
Circuit 1 total watts		161	161	
Circuit total annual kwh		419	250	669



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PL-07-C2

No. luminaires	5	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		145	145	
Watts per luminaire		29.00	29.00	
Watts per luminaire (incl PF)		32	32	
Circuit 1 total watts		161	161	
Circuit total annual kwh		419	250	669

PL-08-C1

No. luminaires	3	Dusk to midnight	Midnight to dawn	Total
Lighting class		P5	P5	
Circuit total Power (W)		27	27	
Watts per luminaire		9.00	9.00	
Watts per luminaire (incl PF)		10	10	
Circuit 1 total watts		30	30	
Circuit total annual kwh		78	47	125

PL-09-C1

No. luminaires	5	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		125	125	
Watts per luminaire		25.00	25.00	
Watts per luminaire (incl PF)		28	28	
Circuit 1 total watts		139	139	
Circuit total annual kwh		361	215	576



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PL-10-C1

No. luminaires	4	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		116	116	
Watts per luminaire		29.00	29.00	
Watts per luminaire (incl PF)		32	32	
Circuit 1 total watts		129	129	
Circuit total annual kwh		335	200	535

PL-10-C2

No. luminaires	4	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		116	116	
Watts per luminaire		29.00	29.00	
Watts per luminaire (incl PF)		32	32	
Circuit 1 total watts		129	129	
Circuit total annual kwh		335	200	535

PL-10-C3

No. luminaires	4	Dusk to midnight	Midnight to dawn	Total
Lighting class		P5	P5	
Circuit total Power (W)		56	56	
Watts per luminaire		14.00	14.00	
Watts per luminaire (incl PF)		16	16	
Circuit 1 total watts		62	62	
Circuit total annual kwh		162	96	258



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PL-11-C1

No. luminaires	5	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		145	145	
Watts per luminaire		29.00	29.00	
Watts per luminaire (incl PF)		32	32	
Circuit 1 total watts		161	161	
Circuit total annual kwh		419	250	669

PL-11-C2

No. luminaires	5	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		145	145	
Watts per luminaire		29.00	29.00	
Watts per luminaire (incl PF)		32	32	
Circuit 1 total watts		161	161	
Circuit total annual kwh		419	250	669

PL-12-C1

No. luminaires	6	Dusk to midnight	Midnight to dawn	Total
Lighting class		P4	P4	
Circuit total Power (W)		174	174	
Watts per luminaire		29.00	29.00	
Watts per luminaire (incl PF)		32	32	
Circuit 1 total watts		193	193	
Circuit total annual kwh		503	300	802