

Luminaire Location Summary						
LumNo	Label	X	Y	Z	Orient	Tilt
1	A36-A10-27K	168.1	217.6	6	165.9	0
2	A36-F-27K	98.9	110.9	6	254.7	0
3	A36-F-27K	92.6	83.4	6	77.9	0
4	A36-F-27K	94.7	270.4	6	253.9	0
5	A36-R03-BS-27K	93.6	193.8	6	347.9	0
6	A36-R03-BS-27K	85.3	161.2	6	347.9	0
7	A36-R03-BS-27K	76.6	128.9	6	347.9	0
8	A36-R03-BS-27K	59	63.8	6	347.9	0
9	A36-R03-BS-27K	63.6	30.4	6	35	0
10	A36-R03-BS-27K	95	27.9	6	115	0
11	A36-R03-BS-27K	172.9	81.2	6	165	0
12	A36-R03-BS-27K	206.3	162.2	6	133.3	0
13	A36-R03-BS-27K	226	180.3	6	133.3	0
14	A36-R03-BS-27K	244.3	228.9	6	163.6	0
15	A36-R03-BS-27K	251.2	262	6	174.8	0
16	A36-R03-BS-27K	249.2	295.6	6	180	0
17	A36-R03-BS-27K	247.4	328.8	6	182	0
18	A36-R03-BS-27K	245.2	362	6	182	0
19	A36-R03-BS-27K	218.7	411.1	6	226	0
20	A36-R03-BS-27K	237	389.9	6	222.2	0
21	A36-R03-BS-27K	181.3	112.5	6	155	0
22	A36-R03-BS-27K	238.5	197.7	6	161.5	0
23	A36-R03-BS-27K	190.1	143.7	6	165	0
24	A36-R03-BS-27K	153.2	54.6	6	115	0
25	A36-R03-BS-27K	124.1	41.3	6	115	0
26	A36-R03-BS-27K	68	96.3	6	347.9	0
27	A36-S-T-27K	119.8	90.4	6	73.2	0
28	A36-S-T-27K	150.9	241.9	6	74.6	0
29	A36-S-T-27K	215.6	224.7	6	74.6	0
30	A36-S-T-27K	182	233.3	6	74.6	0
31	A36-S-T-27K	70.3	268	6	74.6	0
32	A36-S-T-27K	119.9	248.9	6	74.6	0
33	A36-S-T-27K	90.1	244.8	6	74.6	0
34	A36-S-T-27K	91.3	211.7	6	74.6	0
35	A36-S-T-27K	152.9	81.5	6	73.2	0
36	C10-A-27K	226.4	202.7	1.1	335.8	0
37	C10-A-27K	221.9	192	1.1	325.6	0
38	C10-A-27K	90	121.9	1.1	342	0
39	C10-A-27K	93.3	134.5	1.1	342	0
40	C10-A-27K	96.7	146.8	1.1	342	0
41	C10-A-27K	99.9	159.3	1.1	342	0
42	C10-A-27K	103.2	171.6	1.1	342	0
43	C10-A-27K	106.6	183.9	1.1	342	0
44	C10-A-27K	98.6	234.4	1.1	250.7	0
45	C10-A-27K	74.4	230.5	1.1	341.2	0
46	C10-A-27K	72	220.5	1.1	344.1	0
47	C10-A-27K	131.4	116.7	1.1	315	0
48	C10-A-27K	140.8	122.5	1.1	170.5	0
49	C10-A-27K	141.9	141.3	1.1	169.2	0
50	C10-A-27K	145.2	152.7	1.1	162.5	0
51	C10-A-27K	146.4	163.9	1.1	197.8	0
52	C10-A-27K	139.4	162.7	1.1	23.6	0
53	C10-A-27K	179	157.8	1.1	47	0
54	C10-A-27K	187.7	165.5	1.1	77.6	0
55	C10-A-27K	176.2	168.6	1.1	70	0
56	C10-A-27K	178.2	165	1.1	221.1	0
57	C10-A-27K	169	170.9	1.1	262	0
58	C10-A-27K	161.9	166.2	1.1	346.5	0
59	C10-A-27K	157.4	174.6	1.1	222.6	0
60	C10-A-27K	154.5	219.3	1.1	256.5	0
61	C10-A-27K	152.2	199.3	1.1	328	0
62	C10-A-27K	156.3	193.4	1.1	147.7	0
63	C10-A-27K	211	189.6	1.1	73.2	0
64	C10-A-27K	200.1	192.5	1.1	79.2	0
65	C10-A-27K	190.6	194.8	1.1	79.2	0
66	C10-A-27K	171	177.3	1.1	347.8	0
67	C10-A-27K	154.9	185.3	1.1	210	0
68	C10-A-27K	189	189.8	1.1	168.1	0
69	C10-A-27K	185.8	177.8	1.1	166.6	0
70	C10-A-27K	152.2	178.6	1.1	76.9	0
71	C10-A-27K	137	152.8	1.1	350.4	0
72	C10-A-27K	133.6	142.4	1.1	347.3	0
73	C10-A-27K	133.5	129.2	1.1	348.9	0
74	C10-A-27K	133.3	108.6	1.1	160	0
75	C10-A-27K	169.4	133	1.1	255.6	0
76	C10-A-27K	168.4	110.8	1.1	0	0
77	C10-A-27K	174	139.7	1.1	326.7	0
78	C10-A-27K	180.7	148.9	1.1	324.2	0
79	C10-A-27K	177.6	131.5	1.1	251.9	0
80	C10-A-27K	168.7	122.9	1.1	0	0
81	C10-A-27K	69.4	209.8	1.1	346.9	0
82	C10-A-27K	106.8	227.1	1.1	76.7	0
83	C10-A-27K	142.3	177.1	1.1	306.4	0
84	C10-A-27K	141.9	183.7	1.1	335	0
85	C10-A-27K	148.9	171.5	1.1	136	0
86	C10-F-27K	102.7	138.5	1.1	79.2	0
87	C10-F-27K	105.1	148.7	1.1	253.7	0
88	C10-F-27K	107.4	211	1.1	253.1	0
89	C10-F-27K	110.7	197.2	1.1	162.2	0
90	C10-F-27K	113	205.2	1.1	164.7	0
91	C10-F-27K	108.2	191.9	1.1	75.1	0
92	C10-F-27K	134.2	170.4	1.1	69.4	0
93	C10-F-27K	152.8	210.2	1.1	77.4	0
94	C10-F-27K	134.5	180.3	1.1	347.7	0
95	C10-F-27K	147.3	133	1.1	251.8	0
96	C10-F-27K	142.5	134.4	1.1	210.2	0
97	C10-F-27K	116.6	186.5	1.1	173.2	0
98	C10-F-27K	115.1	179.1	1.1	165.1	0
99	C10-F-27K	145.9	191.5	1.1	344.9	0
Total Quantity: 99						

All light fittings shall have a 10-year manufacturers Parts and Labour Warranty on Lantern.

All lighting infrastructure shall be located in the public realm, with lighting columns typically shown to the rear of footpaths

The specification for the LED Lanterns (Ra=60) is lighting Class S3/P3;

Lighting columns shall be designed to BS EN 40. LED Lantern, minimum of 150lumens/w

All lamp fittings shall have Side-Entry or Post-Top Mounted c/w LM6 Marine Salt Protection;

All Lantern (luminaire) types shall be Certified to BS EN 60598-1:2008;

The lanterns shall be equipped with electronic control gear, controlled by photocells (photocells have individual NEMA sockets on each lamp for standard photocell) Photocells shall be seven-prong twist lock NEMA socket or equivalent with a photo electronic switch.

lantern types shall be listed on the SEAI triple E Registered product list

All lighting points shall be accessible by means of a hydraulic hoist, for maintenance purposes. Such a hoist requires a minimum paved vehicular access of 3.5 metres. In exceptional circumstances, if such access is not available special arrangements shall be made such as the use of hinged columns.

The installation of schemes in residential areas shall comply with the Code of Practice for Public Lighting ET211: 2003, the National Rules for Electrical Installations (IS10101), current at time of issue and shall include the provision of a Customer Service Pillar(s) in line with the requirements of ESB Networks National Code Of Practice For Customer Interface (current edition).

All Street Lighting Schemes shall comply with the following:

CEN Code of Practice EN 13201-1:2015

CEN Code of Practice EN 13201-5:2015 relating to Energy Benchmarking

BS5489: 2013 (and any future updates to these documents).

IS10101

ESB National Code of Practice for Customer Interface 4th Edition 2008

Luminaires shall be LEDs and shall comply with I.S. EN 60598-2-3 and IEC 62722-2-1

New Public Lighting installations, using an underground supply, must always be connected through a micro-pillar, serving public lighting installations only.

Certification of completed installations by a contractor registered with ECSSA or RECI must be provided to ESB Networks in order for installations to be energised.

The Public Lighting must be fully operational prior to any occupation of the housing development



Luminaire Schedule						
Symbol	Qty	Label	Lum. Lumens	MF	Description	Filename
	50	C10-A-27K	855	0.800	Camino Bollard 10W 4LED 2700K - XW Optic Asymmetric Wide	5CMB08LGA - Camino 8L 10W 4K XW.ies
	14	C10-F-27K	779	0.800	Camino Bollard 10W 4LED 2700K, Forward Throw, 700mA	5BLE00311 - 4L 10W FT.ies
	22	A36-R03-BS-27K	2890	0.830	Atina Size 1, 36w 16LED 700mA 2700K Street Optic R03 Optic with Black Shield	City Streetlight 36w 16LED 4K - R03 Optic with Black Shield.ies
	3	A36-F-27K	3580	0.830	Atina Size 1, 36W 16LED 700mA 4000K Forward Throw Optic A14	5ATA11GLA-A14.ies
	1	A36-A10-27K	3576	0.830	Atina Size 1, 36W 16LED 700mA 2700K Street Optic A10	5ATA11GLA-A10.ies
	9	A36-S-T-27K	3581	0.830	Twin Atina Size 1, 36W 16LED 700mA 4000K Symmetric C6	5ATA12GLA-C6.ies

Calculation Summary									
Description	Avg	Max	Min	Min/Avg	Min/Max	Units	PtSpLr	PtSpTb	# Pts
Paths	10.91	82.3	1.5	0.14	0.02	Lux	1.5	1.5	711
Plaza	8.24	73.9	1.7	0.21	0.02	Lux	1.5	1.5	676
Road	7.50	70.7	1.5	0.20	0.02	Lux	1.5	1.5	4842

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General notes:

This drawing to be read in conjunction with all relevant architectural drawings and specifications.

This drawing to be read in conjunction with all relevant structural drawings and specifications.

This drawing to be read in conjunction with all relevant mechanical and electrical drawings and specifications.

All dimensions in millimeters, do not scale from this drawing, only use figured dimensions only.

Contractor must verify all dimensions on site prior to installation of services and production of working drawings.

- Notes:
- The electrical installation shall be in accordance with IS10101.
  - All wiring to street lighting to be 6.0mm<sup>2</sup> in ducting
  - The contractor shall ensure that the earthing system complies with IS10101

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Client:  
Kirkland Investments

Architect:  
Reddy Architecture + Urbanism

Project:  
Residential, Workplace & Mixed Use at Singland, Dublin Rd, Limerick

Drawing:  
Electrical Installation Site Lighting & Lux Levels

MFC Project Reference | 25.2977 | Scale | NTS

Drawn | GJA | Checked | TK | Approved | JM

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