

Symbol	Ref	Qty	Config	Outreach	Description	Mtg Height	Lumens	Cutoff Class	Total MF	Unit Watts
A	17	1	Single	0	Kirium Pro S1 8LED A1 3k Rear shield 550mA UMSJG 42 0014 0000 100	5	1818	Semi-Cutoff	0.840	14
B	14	1	Single	0	Kirium Bollard 160-Asymmetrical-3LED-500mA-3k-6W	1	414	Semi-Cutoff	0.840	6
C	20	1	Single	0	Kirium 160 bollard-Symmetrical-3k-500mA-11W	1	828	Cutoff	0.840	11

Luminous Flux Factor (LFF): BS5489-1:2020 [Annex D2] = 1.0 (CLO)

Survival Factor (SF): BS5489-1:2020 [Annex D2] = 1.0

Luminaire Maintenance Factor (LMF): BS5489-1:2020 [Table C1] = 72 Months:  
Environmental Zone:

E3/E4 =<6M TLS = 0.84

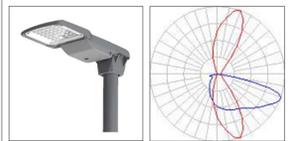
(LFF) \* (SF) \* (LMF) = Total Maintenance Factor Value

Calculation Results Summary

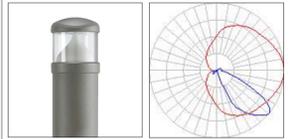
Grid Reference	Measurement	Units	Eav	Emax	Emin	Uo	Ud	X Pitch	Y Pitch
Footpath 1	Illuminance	Lux	13.95	81.8	0.1	0.01	0.00	1.5	1.5
Road 1	Illuminance	Lux	4.51	20.0	0.7	0.16	0.04	1.5	1.5
Road 10	Illuminance	Lux	2.03	38.1	0.0	0.00	0.00	1.5	1.5
Road 2	Illuminance	Lux	3.67	77.6	0.0	0.00	0.00	1.5	1.5
Road 3	Illuminance	Lux	4.10	22.0	0.7	0.17	0.03	1.5	1.5
Road 4	Illuminance	Lux	5.02	22.9	0.8	0.16	0.03	1.5	1.5
Road 5	Illuminance	Lux	4.42	21.2	0.5	0.11	0.02	1.5	1.5
Road 6	Illuminance	Lux	4.52	21.4	0.7	0.15	0.03	1.5	1.5
Road 7	Illuminance	Lux	5.57	20.4	1.1	0.20	0.05	1.5	1.5
Road 8	Illuminance	Lux	3.54	78.7	0.1	0.03	0.00	1.5	1.5
Road 9	Illuminance	Lux	3.39	59.3	0.1	0.03	0.00	1.5	1.5

Luminaire Location Summary

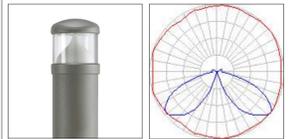
Col ID	Ref (Qty)	X	Y	Angle	Tilt	Dimming
1	A (1)	238540.066	219637.217	353.789	0	1.00
2	A (1)	238542.558	219674.704	357.772	0	1.00
3	A (1)	238547.248	219706.688	351.551	0	1.00
4	A (1)	238548.255	219777.377	4.498	0	1.00
5	A (1)	238573.592	219791.077	285.615	0	1.00
6	A (1)	238602.547	219810.736	309.584	0	1.00
7	A (1)	238628.734	219818.542	257.499	0	1.00
8	A (1)	238659.047	219883.578	89.577	0	1.00
9	A (1)	238613.507	219739.441	179.67	0	1.00
10	A (1)	238615.146	219715.229	357.839	0	1.00
11	A (1)	238599.446	219650.699	179.29	0	1.00
12	A (1)	238607.211	219672.726	90.656	0	1.00
13	A (1)	238636.359	219672.502	90.656	0	1.00
14	A (1)	238599.837	219689.667	179.971	5	1.00
15	A (1)	238603.606	219590.779	102.7	5	1.00
16	A (1)	238550.216	219742.601	0.397	0	1.00
17	A (1)	238600.514	219618.783	194.122	0	1.00
18	B (1)	238543.402	219798.07	0	0	1.00
19	B (1)	238543.404	219808.098	0	0	1.00
20	B (1)	238543.475	219817.633	0	0	1.00
21	B (1)	238544.09	219827.991	0	0	1.00
22	B (1)	238543.558	219837.841	0	0	1.00
23	B (1)	238543.869	219847.918	0	0	1.00
24	B (1)	238544.482	219610.25	120.257	0	1.00
25	B (1)	238645.404	219605.727	118.615	0	1.00
26	B (1)	238636.047	219601.722	110.927	0	1.00
27	B (1)	238635.575	219598.129	112.21	0	1.00
28	B (1)	238679.503	219586.519	96.126	0	1.00
29	B (1)	238568.593	219585.305	97.457	0	1.00
30	B (1)	238546.99	219583.79	90.847	0	1.00
31	B (1)	238557.175	219584.216	95.291	0	1.00
32	C (1)	238564.32	219851.536	347.657	0	1.00
33	C (1)	238594.293	219849.339	346.481	0	1.00
34	C (1)	238603.729	219846.713	348.018	0	1.00
35	C (1)	238612.172	219841.333	319.245	0	1.00
36	C (1)	238618.56	219835.423	316.837	0	1.00
37	C (1)	238671.545	219863.166	10.169	0	1.00
38	C (1)	238661.771	219602.23	1.169	0	1.00
39	C (1)	238652.822	219601.386	7.576	0	1.00
40	C (1)	238642.16	219598.874	13.164	0	1.00
41	C (1)	238632.315	219596.289	19.57	0	1.00
42	C (1)	238623.024	219592.664	19.166	0	1.00
43	C (1)	238613.651	219589.091	21.642	0	1.00
44	C (1)	238604.212	219585.712	17.957	0	1.00
45	C (1)	238594.764	219583.156	4.705	0	1.00
46	C (1)	238584.716	219582.516	4.442	0	1.00
47	C (1)	238574.724	219581.539	2.267	0	1.00
48	C (1)	238564.719	219580.577	4.598	0	1.00
49	C (1)	238554.861	219579.36	4.947	0	1.00
50	C (1)	238544.682	219578.617	1.787	0	1.00
51	C (1)	238534.933	219578.04	0.36	0	1.00



REF A:  
Kirium Pro S1, 8LED, A1 Optic, 3000K, Rear Shield, 550mA. Painted in Grey Ral 7046.  
7 Pin Nema Socket.  
5M Tubular Steel Column. Painted in Grey Ral 7046.



REF B:  
Kirium Bollard 160, Asymmetrical, 3LED, 500mA, 3000K  
Painted in Grey Ral 7046.



REF C:  
Kirium Bollard 160, Symmetrical, 3LED, 500mA, 3000K  
Painted in Grey Ral 7046.

BS EN 13201-2:2015  
6.1 Requirements for pedestrians & pedal cyclists  
Table 3 - P Lighting Classes  
  
Class P5:  
3.0 - 4.5lx Eav  
0.6lux Emin

C	26/01/2026	NEW DWG
B	03/12/2025	Area added
A	02/12/2025	Based on client CAD DWG
Issue:	Date:	Description:

CDM Statement:  
Please note that this proposed lighting scheme is a lighting solution that has been designed with information provided by the client. The solution does not include site, installation engineering or any risk assessment considerations for CDM.



Project:  
Carmarthen West, Carmarthen

Client: PHG Consulting Engineers Ltd Contact: Thomas Pugh  
Project Management: Steven Meredith Lighting Design: Emma Gregory  
All measurements in Metres & lux. Do not scale from this drawing.  
All product images are indicative.

Filename: 25-458-1C - 1.1 Carmarthen West, Carmarthen [Layout].AGI AG328 Version 22.2.78  
Date: 26/01/2026 Scale: 1:700 @ A1  
Project Ref: Page 1 of 1

25-458-1C