

DATE: 20 April 2020
DESIGNER: M Bray
PROJECT No: GC/3603
PROJECT NAME: Coed Darcy, Llandarcy (Phase 2)



Design layout complies with BS 5489-1:2013
& BS EN 13201:2015, Class P5 for the site and
Class P4 for Tank Farm Road
(with relaxations by one lighting class due to local bat activity)

Outdoor Lighting Report

PREPARED BY: Design Software from:
Lighting Reality Ltd
Park Business Centre
Wood Lane
Erdington
Birmingham
B24 9QR
United Kingdom

e-mail: sales@lightingreality.com
website: www.lightingreality.com

Layout Report

General Data

Dimensions in Metres Angles in Degrees

Calculation Grids

ID	Grid Name	X	Y	X' Length	Y' Length	X' Spacing	Y' Spacing
1	Grid 1	271792.69	195713.01	274.16	212.43	1.50	1.50
2	Grid 2	271749.64	195504.98	274.16	33.54	1.50	1.46

Luminaires

Luminaire A Data

Supplier	
Type	Carlton LED 5112 Deep shape PC - 16 XP-G3@350mA NW 230V 00-2
Lamp(s)	16 XP-G3@350mA NW 230V 00-22-362
Lamp Flux (klm)	2.26
File Name	Carlton LED 5112 16 XP-G3 350mA NW 18 .2W 358792 Deep shape PC - 230V TF.L...
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	449.1, 263.8, 8.6
No. in Project	15

Luminaire C Data

Supplier	
Type	Carlton LED 5098 Deep shape PC - 16 XP-G3@500mA NW 230V 00-2
Lamp(s)	16 XP-G3@500mA NW 230V 00-22-362
Lamp Flux (klm)	3.04
File Name	Carlton LED 5098 16 XP-G3 500mA NW 25 .7W 361782 Deep shape PC - 230V TF.L...
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	475.0, 87.7, 8.1
No. in Project	7

Luminaire E Data

Supplier	
Type	Carlton LED 5112 Deep shape PC - 16 XP-G3@350mA NW 230V 00-2
Lamp(s)	16 XP-G3@350mA NW 230V 00-22-362
Lamp Flux (klm)	2.26
File Name	Carlton LED 5112 16 XP-G3 350mA NW 18 .2W 358792 Deep shape PC - 230V TF.L...
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	449.1, 263.8, 8.6
No. in Project	4

Layout

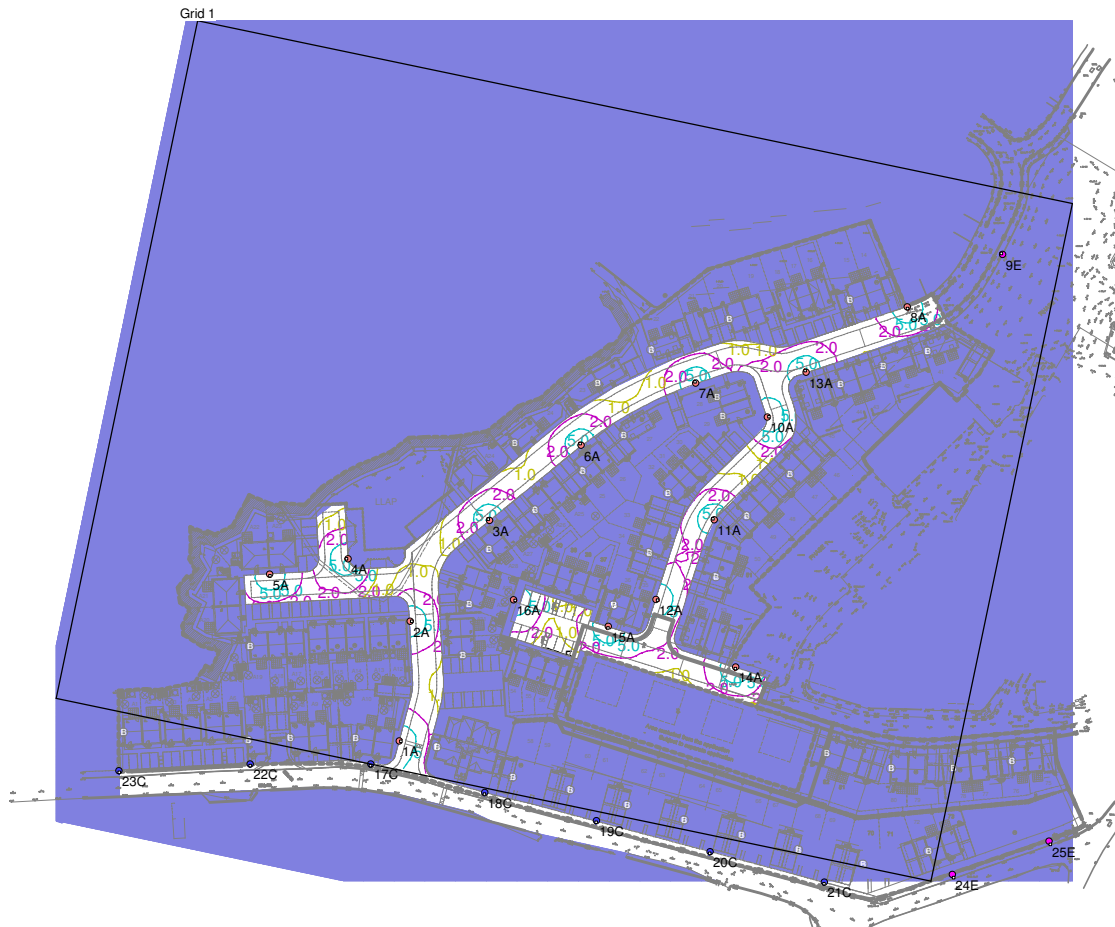
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
1	A	271586.17	195548.11	6.00	345.00	0.00	0.00	0.50	100%			
2	A	271589.46	195584.85	6.00	3.00	0.00	0.00	0.50	100%			
3	A	271613.82	195615.74	6.00	128.00	0.00	0.00	0.50	100%			
4	A	271570.47	195603.95	6.00	179.00	0.00	0.00	0.50	100%			
5	A	271546.39	195599.30	6.00	282.00	0.00	0.00	0.50	100%			
6	A	271641.93	195638.89	6.00	126.00	0.00	0.00	0.50	100%			
7	A	271677.06	195657.86	6.00	112.00	0.00	0.00	0.50	100%			
8	A	271742.01	195681.30	6.00	287.00	0.00	0.00	0.50	100%			
9	E	271771.31	195697.40	6.00	146.00	0.00	0.00	0.50	0%			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
10	A	271699.08	195647.46	6.00	17.00	0.00	0.00	0.50	100%			
11	A	271682.83	195615.93	6.00	145.00	0.00	0.00	0.50	100%			
12	A	271664.95	195591.56	6.00	337.00	0.00	0.00	0.50	100%			
13	A	271710.94	195661.27	6.00	114.00	0.00	0.00	0.50	100%			
14	A	271689.38	195570.75	6.00	255.00	0.00	0.00	0.50	100%			
15	A	271650.29	195583.27	6.00	255.00	0.00	0.00	0.50	100%			
16	A	271621.22	195591.44	6.00	340.00	0.00	0.00	0.50	100%			
17	C	271577.39	195541.00	6.00	259.00	0.00	0.00	0.50	100%			
18	C	271612.37	195532.25	6.00	257.00	0.00	0.00	0.50	100%			
19	C	271646.66	195523.67	6.00	257.00	0.00	0.00	0.50	100%			
20	C	271681.50	195514.15	6.00	257.00	0.00	0.00	0.50	100%			
21	C	271716.63	195504.78	6.00	257.00	0.00	0.00	0.50	100%			
22	C	271540.36	195541.05	6.00	274.00	0.00	0.00	0.50	100%			
23	C	271500.17	195538.98	6.00	272.00	0.00	0.00	0.50	100%			
24	E	271755.88	195507.12	10.00	290.00	0.00	0.00	1.00	0%			
25	E	271785.54	195517.36	10.00	290.00	0.00	0.00	1.00	0%			
26	E	271708.36	195485.08	10.00	290.00	0.00	0.00	1.00	0%			

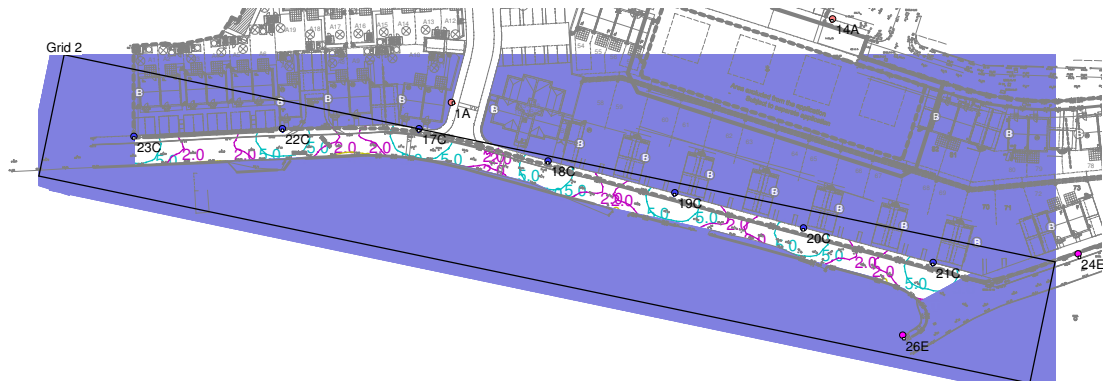
Horizontal Illuminance (lux)

Grid 1



Horizontal Illuminance (lux)

Grid 2



Results

Eav	4.50
Emin	0.83
Emax	14.00
Emin/Emax	0.06
Emin/Eav	0.18