DATE:	**20 January 2026**
DESIGNER:	**Ronan Meally**
PROJECT No:	**25K149**
PROJECT NAME:	**BAKERS HALL**

rmce
Ronan Meally Consulting Engineers

PUBLIC LIGHTING DESIGNED TO MEET IS 13201:2015 CLASS P4

Outdoor Lighting Report

DESIGN TO MEET LIGHTING CLASS IS EN 13201:2015

PREPARED BY: RONAN MEALLY

Layout Report

General Data

Dimensions in Metres Angles in Degrees
Grid Origin -1.5m x -101.3m
Area 86.8m x 110.2m
Sample Spacing 1.50m x 1.49m

Luminaires



Luminaire A Data

Supplier	Thorn Lighting UK & Ireland
Type	AVENUE F2 18LED 500mA RS optic
Lamp(s)	LED 3000K CRI 70
LampFlux(klm)/Colour	3.61 3000/70
File Name	AV18L50RS730.LDT
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	274.9, 196.5, 55.3
No. in Project	3

Luminaire B Data

Supplier	
Type	PIAZZA 3 9-16-27 827-830-840 HF ANT E3
Lamp(s)	PIA3_H4K_HF_E3 23C6W
LampFlux(klm)/Colour	2.64 /80
File Name	96800095_(High4000K).LDT
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	391.8, 165.4, 24.3
No. in Project	33



Luminaire C Data

Supplier	Philips
Type	BGP704 DW50
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	14.00
File Name	Luma Gen2 Medium_BGP704_DW50_14000_80LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	595.5, 51.0, 0.0
No. in Project	6

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
2	B	35.61	-21.03	3.00	275.00	0.00	0.00	0.00	30%			
3	B	38.53	-83.97	2.50	296.00	0.00	0.00	0.00	30%			
4	B	61.87	-68.49	3.00	298.00	0.00	0.00	0.00	30%			
5	B	23.60	-11.01	3.00	281.00	0.00	0.00	0.00	30%			
6	B	29.44	2.34	3.00	98.00	0.00	0.00	0.00	30%			
7	B	33.58	0.26	3.00	15.00	0.00	0.00	0.00	30%			
8	B	53.27	-52.48	2.70	197.00	0.00	0.00	0.00	30%			
9	B	29.88	-19.00	3.00	189.00	0.00	0.00	0.00	50%			
10	A	12.73	-32.34	6.00	277.00	0.00	0.00	0.40	100%			
11	B	24.71	-52.58	6.00	22.00	0.00	0.00	0.00	30%			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
12	B	16.05	-16.02	3.00	10.00	0.00	0.00	0.00	50%			
13	B	47.19	-78.48	2.50	305.00	0.00	0.00	0.00	30%			
14	B	53.94	-73.91	2.50	305.00	0.00	0.00	0.00	30%			
15	A	34.38	-40.02	6.00	98.00	0.00	0.00	0.00	100%			
16	B	71.01	-62.28	3.00	302.00	0.00	0.00	0.00	30%			
17	B	70.47	-58.60	3.00	17.00	0.00	0.00	0.00	30%			
18	B	27.81	-63.68	6.00	25.00	0.00	0.00	0.00	30%			
Existing	C	0.72	2.91	8.00	186.00	0.00	0.00	1.20	100%			
20	B	68.08	-51.00	3.00	24.00	0.00	0.00	0.00	30%			
21	B	59.33	-24.74	3.00	19.00	0.00	0.00	0.00	30%			
22	B	61.09	-30.04	3.00	18.00	0.00	0.00	0.00	50%			
23	B	65.10	-42.58	6.00	12.00	0.00	0.00	0.00	30%			
24	B	63.18	-36.44	3.00	13.00	0.00	0.00	0.00	30%			
25	B	47.94	-24.82	3.00	106.00	0.00	0.00	0.00	30%			
26	B	54.87	-23.19	6.00	106.00	0.00	0.00	0.00	30%			
27	B	47.61	-33.20	3.00	200.00	0.00	0.00	0.00	30%			
28	B	49.19	-37.31	3.00	199.00	0.00	0.00	0.00	30%			
29	B	51.93	-45.60	3.00	198.00	0.00	0.00	0.00	50%			
30	B	33.10	-72.27	3.00	118.00	0.00	0.00	0.00	30%			
31	B	54.23	-58.68	3.00	123.00	0.00	0.00	0.00	30%			
32	B	48.40	-61.96	3.00	119.00	0.00	0.00	0.00	30%			
33	B	41.47	-66.53	3.00	120.00	0.00	0.00	0.00	30%			
34	B	17.92	-27.14	3.00	19.00	0.00	0.00	0.00	50%			
35	B	39.70	-13.86	3.00	9.00	0.00	0.00	0.00	30%			
36	A	81.33	-61.92	6.00	120.00	0.00	0.00	0.00	50%			
Existing	C	11.36	-70.48	8.00	193.00	0.00	0.00	1.20	100%			
39	C	25.87	-99.69	8.00	215.00	0.00	0.00	0.00	100%			
40	C	-9.44	-59.78	8.00	15.00	5.00	0.00	1.20	100%			
Existing	C	-18.78	-8.35	8.00	16.00	0.00	0.00	1.20	100%			
Existing	C	-5.95	-76.60	8.00	16.00	5.00	0.00	1.50	100%			
42	B	22.87	-87.20	2.50	216.00	0.00	0.00	0.00	30%			
43	B	32.42	-87.71	2.50	294.00	0.00	0.00	0.00	30%			

Horizontal Illuminance (lux)

Grid 1



Results

Eav	7.22
Emin	1.46
Emax	24.49
Emin/Emax	0.06
Emin/Eav	0.20