

DATE: 11 March 2019
DESIGNER: Declan Doyle
PROJECT No: KE/RE/GAS/01
PROJECT NAME: 'The Grange', Brewery Road/Stillorgan Road, Blackrock, Co. Dublin



Lighting to class P3
Dimming to 2A regime, S/P Ratio 1.47
A) CREE XSPME B type 3SH DY2, 4.00klm, 26w CLO
B) CREE Urban Modern Circular type 210, 3.02klm, 21w CLO
C/W 7 pin NEMA socket for photocell & field adjuster (DQ-N/Y-N,
for XSPME)
mounted on 6m columns

Outdoor Lighting Report

SUPPLIER: Astrotek Lighting Design,
M50 Business Park,
Ballymount,
Dublin 12.

Tel: 01 4566717
Email: declan.doyle@rexel.ie
Web: www.kellihers.com

Layout Report

General Data

Dimensions in Metres Angles in Degrees
 Grid Origin 92.8m x 84.9m
 Area 196.3m x 173.8m
 Sample Spacing 1.53m x 1.50m

Luminaires

Luminaire A Data

Supplier	
Type	XSPME - B - Type 3SH - DY2 4K
Lamp(s)	3MD-SA1400 M DY2 4K
LampFlux(klm)/Colour	4.00 4000/70
File Name	XSPME023SHB40K_24DY2-PL12371-012A.LDT
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	334.5, 193.4, 0.0
Lamp S/P Ratio	1.47
No. in Project	9

Luminaire B Data

Supplier	
Type	URBAN Modern E - Type 210 - 9
Lamp(s)	5 MD-SA1000 9 4K
LampFlux(klm)/Colour	3.02 4000/70
File Name	UMDE210A40K_24BK_9-PL11703-010.LDT
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	676.7, 33.1, 0.0
Lamp S/P Ratio	1.47
No. in Project	24

Layout

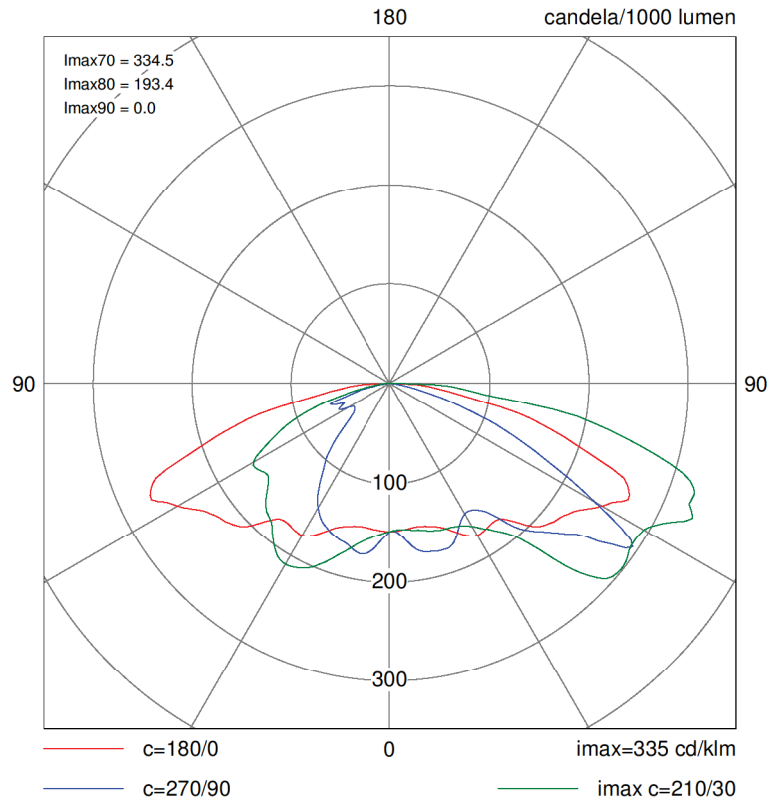
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	100.10	159.81	6.00	75.00	5.00	0.00	0.00			
2	A	110.33	169.38	6.00	202.00	5.00	0.00	0.00			
3	A	125.59	153.76	6.00	225.00	5.00	0.00	0.00			
4	A	150.04	148.45	6.00	232.00	5.00	0.00	0.00			
5	A	149.54	133.76	6.00	221.00	5.00	0.00	0.00			
6	A	169.27	121.10	6.00	223.00	6.00	0.00	1.00			
7	A	176.90	99.71	6.00	134.00	5.00	0.00	1.00			
8	A	175.81	138.10	6.00	132.00	5.00	0.00	0.00			
9	B	141.12	112.45	6.00	133.00	0.00	0.00	0.00			
10	A	194.89	145.15	6.00	307.00	5.00	0.00	0.00			
11	B	188.21	155.34	6.00	140.00	0.00	0.00	0.00			
12	B	177.22	174.62	6.00	225.00	0.00	0.00	0.00			
13	B	168.67	164.46	6.00	49.00	0.00	0.00	0.00			
14	B	197.48	155.04	6.00	45.00	0.00	0.00	0.00			
15	B	212.19	156.99	6.00	140.00	0.00	0.00	0.00			
16	B	208.42	167.19	6.00	45.00	0.00	0.00	0.00			
17	B	202.72	178.33	6.00	140.00	0.00	0.00	0.00			
18	B	199.33	197.91	6.00	222.00	0.00	0.00	0.00			
19	B	217.78	180.48	6.00	224.00	0.00	0.00	0.00			
20	B	205.32	205.63	6.00	47.00	0.00	0.00	0.00			

Layout Continued

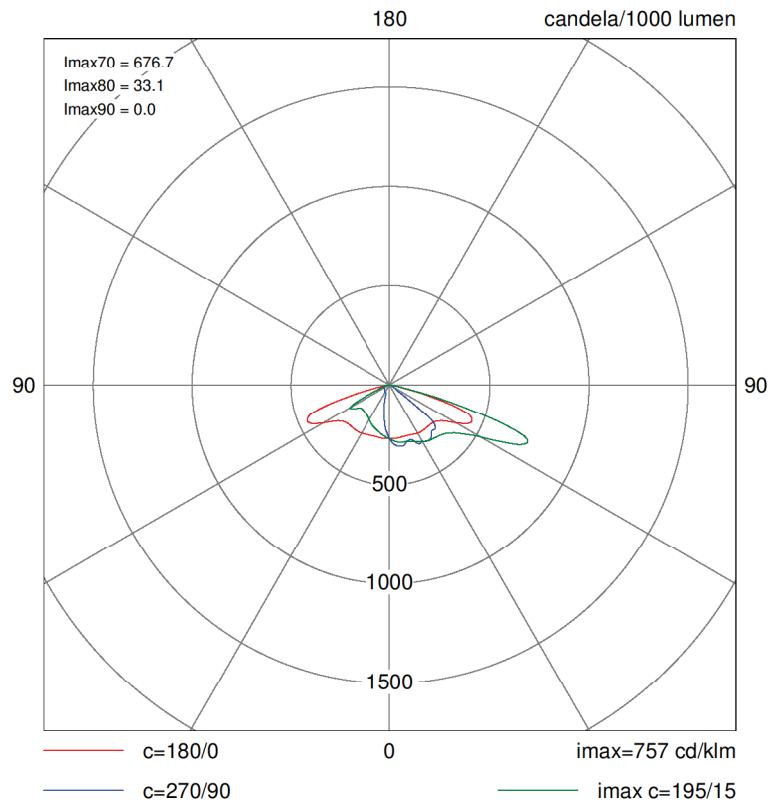
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
21	B	227.38	174.53	6.00	140.00	0.00	0.00	0.00			
22	B	221.99	191.20	6.00	140.00	0.00	0.00	0.00			
23	B	234.75	185.06	6.00	46.00	0.00	0.00	0.00			
24	B	254.64	169.39	6.00	221.00	0.00	0.00	0.00			
25	B	266.15	154.06	6.00	148.00	0.00	0.00	0.00			
26	B	201.97	126.18	6.00	47.00	0.00	0.00	0.00			
27	B	221.36	124.52	6.00	140.00	0.00	0.00	0.00			
28	B	215.66	136.66	6.00	41.00	0.00	0.00	0.00			
29	B	226.95	112.72	6.00	77.00	0.00	0.00	0.00			
30	B	232.26	119.92	6.00	40.00	0.00	0.00	0.00			
31	B	243.55	109.15	6.00	49.00	0.00	0.00	0.00			
32	B	252.76	134.74	6.00	333.00	0.00	0.00	0.00			
33	B	281.11	181.07	6.00	285.00	0.00	0.00	0.00			

Polar Diagrams

Luminaire A XSPME - B - Type 3SH - DY2 4K

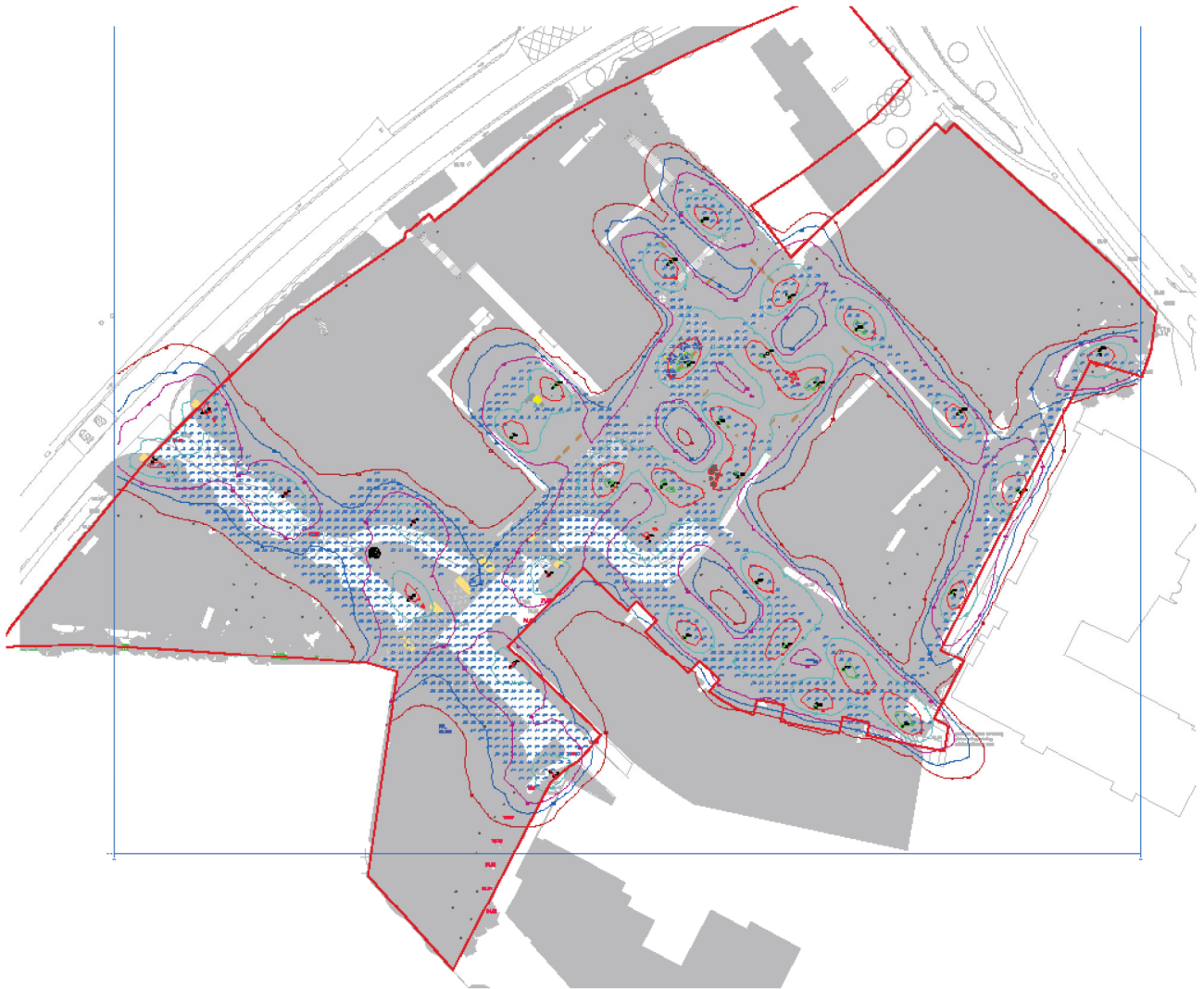


Luminaire B URBAN Modern E - Type 210 - 9



Horizontal Illuminance (lux)

Grid 1



Results

Eav	8.08
Emin	1.75
Emax	22.50
Emin/Emax	0.08
Emin/Eav	0.22