

External Decorative lighting

Installation : St. James Tower

Project number :

Customer : OBI

Processed by : GC

Date : 26.01.2022

The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

1 Exterior 1

1.1 Description, Exterior 1

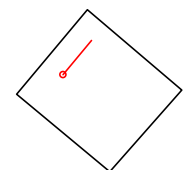
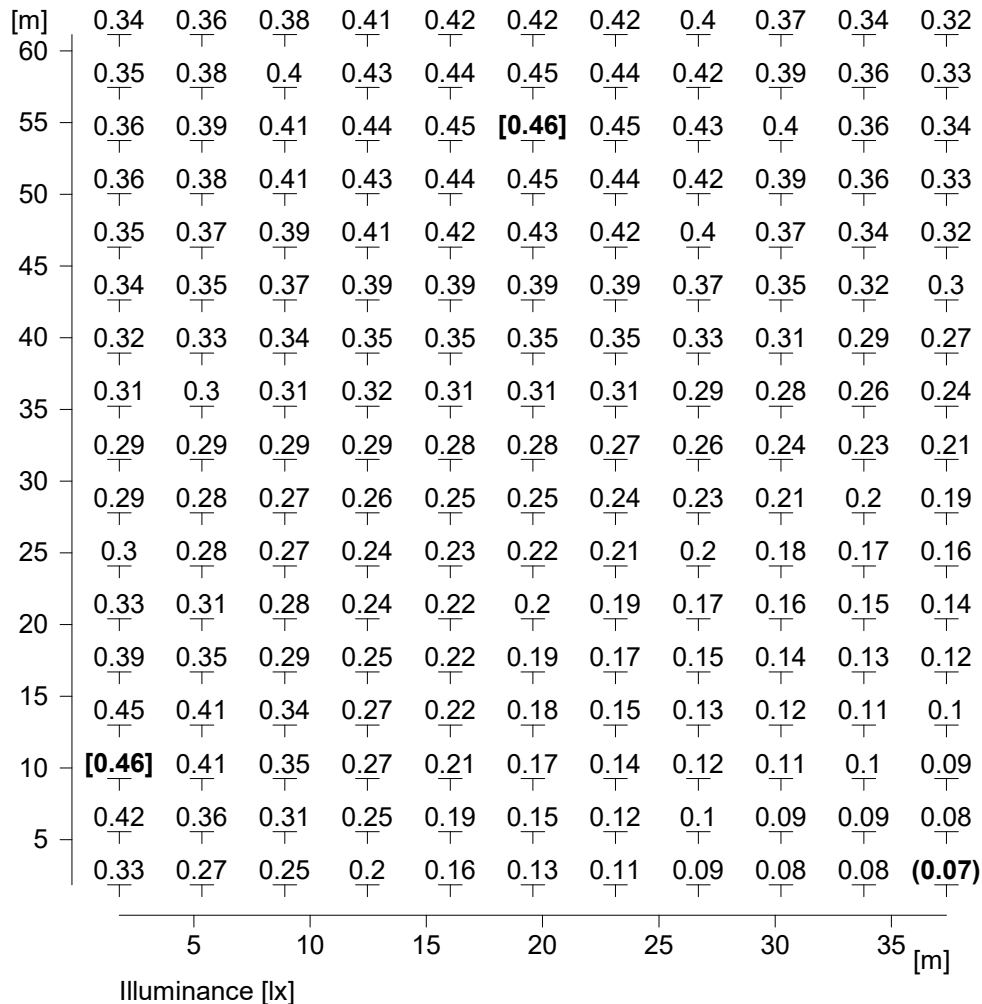
1.1.1 Floor plan



1 Exterior 1

1.2 Calculation results, Exterior 1

1.2.1 Table, George Street (E)



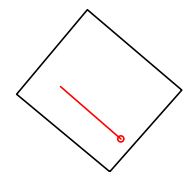
Average illuminance
 Minimum illuminance
 Maximum illuminance
 Uniformity U₀
 Diversity U_d

Em : 0.29 lx
 Emin : 0.07 lx
 Emax : 0.46 lx
 Emin/Em : 1 : 4.09 (0.24)
 Emin/Emax : 1 : 6.52 (0.15)

1.2 Calculation results, Exterior 1

1.2.2 Table, Charlotte Street (E)

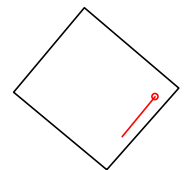
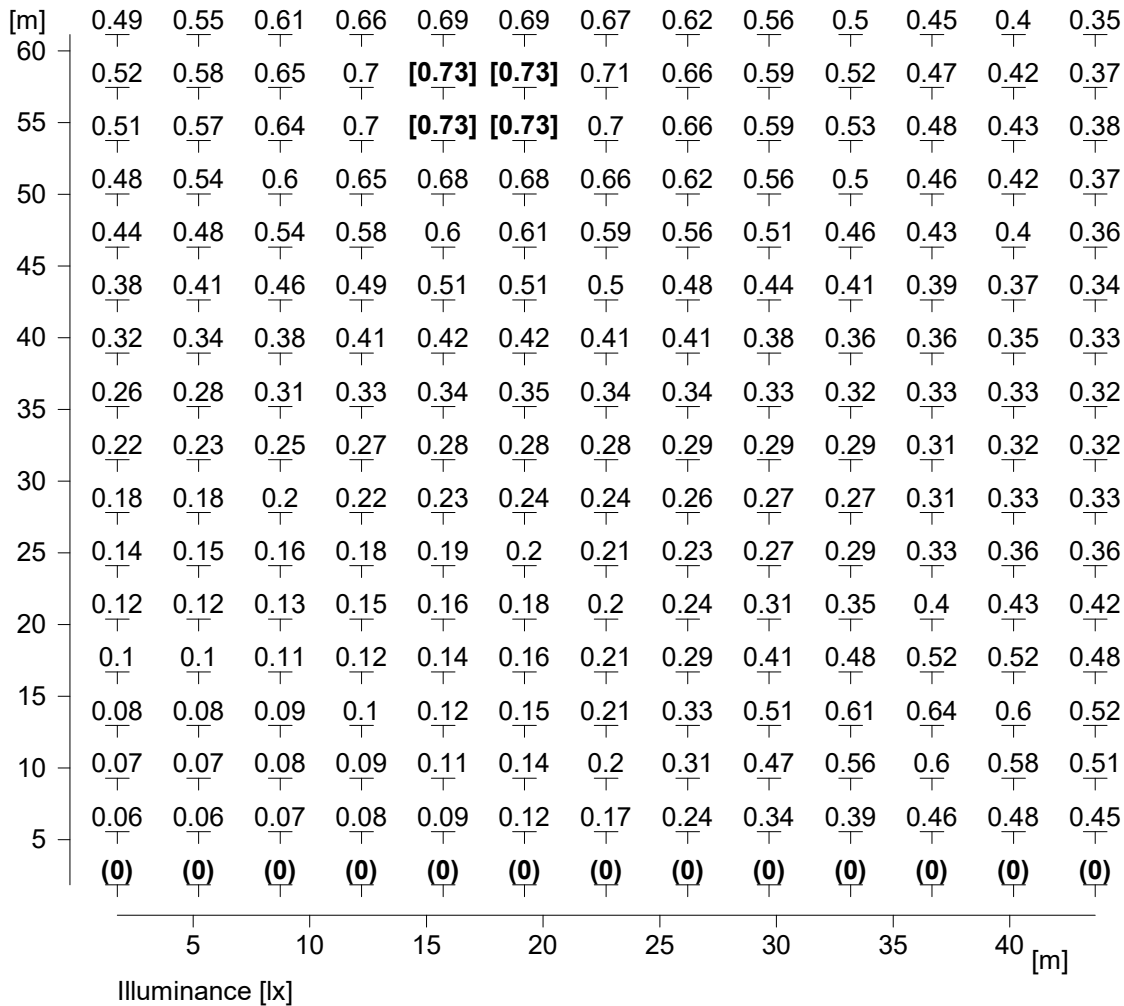
[m]	0.28	0.34	0.41	0.49	0.59	0.7	0.81	0.94	0.98	0.88	0.74	0.64	0.54	0.46	0.38	0.32	0.27	0.23
60	0.3	0.36	0.44	0.53	0.65	0.79	0.93	1.1	1.14	1.02	0.84	0.72	0.6	0.49	0.41	0.34	0.28	0.24
55	0.3	0.36	0.44	0.53	0.65	0.78	0.89	1.07	1.11	0.99	0.83	0.71	0.59	0.49	0.41	0.34	0.28	0.24
50	0.29	0.35	0.41	0.49	0.58	0.67	0.74	0.87	0.9	0.82	0.7	0.63	0.54	0.46	0.39	0.33	0.28	0.24
45	0.28	0.32	0.38	0.43	0.49	0.53	0.56	0.65	0.66	0.61	0.55	0.51	0.47	0.41	0.36	0.31	0.27	0.23
40	0.26	0.3	0.34	0.37	0.4	0.42	0.42	0.47	0.48	0.45	0.43	0.42	0.4	0.37	0.33	0.29	0.26	(0.22)
35	0.25	0.28	0.31	0.33	0.35	0.35	0.34	0.37	0.38	0.36	0.35	0.36	0.36	0.34	0.31	0.28	0.25	(0.22)
30	0.24	0.27	0.3	0.32	0.33	0.33	0.32	0.34	0.35	0.34	0.33	0.35	0.35	0.34	0.32	0.29	0.25	(0.22)
25	0.26	0.29	0.32	0.35	0.36	0.36	0.35	0.38	0.38	0.37	0.37	0.39	0.39	0.38	0.35	0.31	0.28	0.24
20	0.29	0.34	0.39	0.44	0.46	0.45	0.44	0.47	0.48	0.47	0.46	0.49	0.5	0.49	0.45	0.39	0.33	0.27
15	0.35	0.43	0.52	0.6	0.64	0.62	0.6	0.64	0.65	0.64	0.63	0.69	0.72	0.7	0.63	0.52	0.42	0.33
10	0.42	0.56	0.72	0.86	0.91	0.86	0.83	0.87	0.88	0.87	0.88	0.99	1.05	1.02	0.92	0.74	0.56	0.41
5	0.49	0.68	0.92	1.12	1.18	1.11	1.05	1.1	1.11	1.1	1.11	1.3	1.39	1.36	1.21	0.96	0.69	0.48
	0.49	0.7	0.95	1.16	1.22	1.15	1.12	1.21	1.22	1.2	1.15	1.35	[1.44]	1.41	1.26	0.99	0.71	0.49
	0.43	0.58	0.77	0.94	0.99	0.95	0.98	1.12	1.14	1.08	0.96	1.1	1.16	1.13	1	0.79	0.59	0.42
	0.31	0.4	0.51	0.6	0.65	0.62	0.67	0.77	0.8	0.74	0.64	0.72	0.74	0.72	0.67	0.51	0.4	0.32
		10		20		30		40		50		60						
	Illuminance [lx]																	



Average illuminance	Em	: 0.59 lx
Minimum illuminance	Emin	: 0.22 lx
Maximum illuminance	Emax	: 1.44 lx
Uniformity Uo	Emin/Em	: 1 : 2.69 (0.37)
Diversity Ud	Emin/Emax	: 1 : 6.54 (0.15)

1.2 Calculation results, Exterior 1

1.2.3 Table, Faulkner Street (E)

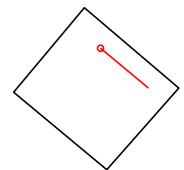


Average illuminance	Em	: 0.36 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 0.73 lx
Uniformity Uo	Emin/Em	: ---
Diversity Ud	Emin/Emax	: ---

1.2 Calculation results, Exterior 1

1.2.4 Table, Chain Street (E)

[m]	0.36	0.46	0.59	0.76	0.98	1.19	1.55	2.07	2.16	1.81	1.24	1.04	0.82	0.64	0.49	
60	0.38	0.5	0.66	0.91	1.33	2.06	3.41	4.68	[4.83]	4.02	2.38	1.51	1.02	0.73	0.54	
55	0.38	0.49	0.66	0.9	1.28	1.95	3.09	4.25	4.39	3.65	2.22	1.45	1	0.72	0.54	
50	0.35	0.45	0.57	0.73	0.91	1.08	1.29	1.73	1.8	1.51	1.11	0.96	0.78	0.61	0.48	
45	0.31	0.38	0.46	0.53	0.57	0.54	0.5	0.64	0.66	0.57	0.51	0.56	0.54	0.47	0.4	
40	0.26	0.31	0.34	0.37	0.35	0.3	0.22	0.27	0.28	0.25	0.26	0.33	0.36	0.35	0.31	
35	0.22	0.24	0.26	0.25	0.23	0.18	0.11	0.13	0.13	0.12	0.14	0.21	0.24	0.25	0.24	
30	0.18	0.19	0.19	0.18	0.16	0.11	0.06	0.07	0.07	0.07	0.09	0.14	0.17	0.18	0.18	
25	0.14	0.15	0.15	0.13	0.11	0.08	0.04	0.04	0.04	0.04	0.06	0.1	0.12	0.14	0.14	
20	0.12	0.12	0.11	0.1	0.08	0.06	0.03	0.03	0.03	0.03	0.04	0.07	0.09	0.1	0.11	
15	0.1	0.1	0.09	0.08	0.06	0.04	0.02	0.02	0.02	0.02	0.03	0.05	0.07	0.08	0.09	
10	0.08	0.08	0.07	0.06	0.05	0.03	0.01	0.01	0.01	0.01	0.02	0.04	0.05	0.06	0.07	
5	0.06	0.06	0.05	0.04	0.03	0.02	0.01	0.01	0.01	0.01	0.02	0.03	0.04	0.05	0.05	
	0.05	0.05	0.04	0.03	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.04	0.04	
	0.04	0.04	0.03	0.03	0.02	0.01	(0)	(0)	(0)	(0)	0.01	0.02	0.02	0.03	0.03	
	0.03	0.02	0.02	0.02	0.01	0.01	(0)	(0)	(0)	(0)	0.01	0.01	0.02	0.02	0.02	
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	5	10	15	20	25	30	35	40	45	50	[m]					
	Illuminance [lx]															



Average illuminance	Em	: 0.43 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 4.83 lx
Uniformity Uo	Emin/Em	: ---
Diversity Ud	Emin/Emax	: ---