Dimensions are not to be scaled from this drawing



Obtrusive Light - Compliance Report
CIE 150:2017, E3-Medium District Brightness, Pre-Curfew
Filename: 53542 Rev C
20/09/2024 13:33:35

Illuminance
Maximum Allowable Value: 10 Lux

Calculations Tested (10):

Calculation Label	Test Results	Max. Illum.
Sea Lane_Ill_Seg1	PASS	5
Sea Lane_2_Ill_Seg1	PASS	1
Sea Lane_3_Ill_Seg1	PASS	1
Sea Lane_4_Ill_Seg1	PASS	1
Sea Close_Ill_Seg1	PASS	0
Sea Lane_1_Ill_Seg1	PASS	0
S Walk_Ill_Seg1	PASS	1
S Walk_Ill_Seg2	PASS	1
Denham Close_Ill_Seg1	PASS	0
Beaconsfield Close_Ill_Seg1	PASS	0

Luminous Intensity (Cd) At Vertical Planes
Maximum Allowable Value calculated from CIE 150:2017 (varies by Projected Area sq.m. and Distance Factor)
For E3-Medium District Brightness, Projected Area and Distance Factors:
(0.002, 0.86) (0.01, 1.9) (0.03, 3.8) (0.13, 7.5) (0.5, 15)
Projected Area (sq.m) = Approx. projected emitting area of luminaire in direction of observer
Distance (m) = Distance from luminaire to observer
Max Cd Allowed = Projected Area Factor * Distance

Calculations Tested (10):

Calculation Label	Test Results
Sea Lane_Cd_Seg1	PASS
Sea Lane_2_Cd_Seg1	PASS
Sea Lane_3_Cd_Seg1	PASS
Sea Lane_4_Cd_Seg1	PASS
Sea Close_Cd_Seg1	PASS
Sea Lane_1_Cd_Seg1	PASS
S Walk_Cd_Seg1	PASS
S Walk_Cd_Seg2	PASS
Denham Close_Cd_Seg1	PASS
Beaconsfield Close_Cd_Seg1	PASS

Threshold Increment (TI)
Maximum Allowable Value: 15 %

Calculations Tested (3):

Calculation Label	Adaptation Luminance	Test Results
Sea Lane TI	10	PASS
Sea Lane TI_1	10	PASS
South Walk	10	PASS

Calculation Summary

Project: Tennis Courts

Label	CalcType	Units	Avg	Max	Min	Uniformity (Min/Avg)	Diversity (Min/Max)	Meter Type
Court 1 PPA	Illuminance	Lux	750.94	1192	457	0.61	0.38	Horizontal
Court 1TPA	Illuminance	Lux	687.23	1336	153	0.22	0.11	Horizontal

Calculation Summary

Project: Project_1

Label	CalcType	Units	Avg	Max	Min	Uniformity (Min/Avg)	Diversity (Min/Max)	Meter Type
Beaconsfield Close_Cd_Seg1	Obtrusive - Cd	N.A.	587.17	961	301	0.51	0.31	Vert-PerpCCW
Beaconsfield Close_Ill_Seg1	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.	Vert-PerpCCW
Denham Close_Cd_Seg1	Obtrusive - Cd	N.A.	1104	1544	736	0.67	0.48	Vert-PerpCW
Denham Close_Ill_Seg1	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.	Vert-PerpCW
S Walk_Cd_Seg1	Obtrusive - Cd	N.A.	2313	3400	1254	0.54	0.37	Vert-PerpCCW
S Walk_Cd_Seg2	Obtrusive - Cd	N.A.	2235	3353	1359	0.61	0.41	Vert-PerpCCW
S Walk_Ill_Seg1	Obtrusive - Ill	Lux	0.50	1	0	0.00	0.00	Vert-PerpCCW
S Walk_Ill_Seg2	Obtrusive - Ill	Lux	0.22	1	0	0.00	0.00	Vert-PerpCCW
Sea Close_Cd_Seg1	Obtrusive - Cd	N.A.	1397	1985	962	0.69	0.48	Vert-PerpCCW
Sea Close_Ill_Seg1	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.	Vert-PerpCCW
Sea Lane TI	Obtrusive - TI	%	2.17	9	0	0.00	0.00	Vert-Along
Sea Lane TI_1	Obtrusive - TI	%	1.35	5	0	0.00	0.00	Vert-Along
Sea Lane_1_Cd_Seg1	Obtrusive - Cd	N.A.	1109	1929	541	0.49	0.28	Vert-PerpCCW
Sea Lane_1_Ill_Seg1	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.	Vert-PerpCCW
Sea Lane_2_Cd_Seg1	Obtrusive - Cd	N.A.	2099	3666	605	0.29	0.17	Vert-PerpCW
Sea Lane_2_Ill_Seg1	Obtrusive - Ill	Lux	0.28	1	0	0.00	0.00	Vert-PerpCCW
Sea Lane_3_Cd_Seg1	Obtrusive - Cd	N.A.	1189	1868	589	0.50	0.32	Vert-PerpCW
Sea Lane_3_Ill_Seg1	Obtrusive - Ill	Lux	0.33	1	0	0.00	0.00	Vert-PerpCCW
Sea Lane_4_Cd_Seg1	Obtrusive - Cd	N.A.	2520	3953	1190	0.47	0.30	Vert-PerpCW
Sea Lane_4_Ill_Seg1	Obtrusive - Ill	Lux	0.67	1	0	0.00	0.00	Vert-PerpCCW
Sea Lane_Cd_Seg1	Obtrusive - Cd	N.A.	1742	2378	1145	0.66	0.48	Vert-PerpCW
Sea Lane_Ill_Seg1	Obtrusive - Ill	Lux	3.06	5	2	0.65	0.40	Vert-PerpCW
South Walk	Obtrusive - TI	%	0.00	0	0	N.A.	N.A.	Vert-Along



Luminaire Schedule

Symbol	Qty	Label	Arrangement	Description	Luminaire Lm	UWLR	Light Engine	TM65 & TM66 Information
	2	A WST 900w 5k	SINGLE	900W LED 5000K AMNIS Flood with WST @ 7m Existing	150	0.00	5050 LED Array, 5000K, >70CRI, L85-B10	TM65 Embodied Carbon = 538kg CO²e - TM66 Circular Economy Score = 2.7 (2.5-4.0 Excellent Circularity)
	2	A1 WST B 900w 5	SINGLE	900W LED 5000K AMNIS Flood with WSTB @ 8m New	125	0.00	5050 LED Array, 4000K, >70CRI, L85-B10	TM65 Embodied Carbon = 538kg CO²e - TM66 Circular Economy Score = 2.7 (2.5-4.0 Excellent Circularity)
	2	B NST 900w 5k	SINGLE	900W LED 5000K AMNIS Flood with NST @ 7m Existing	137	0.00	5050 LED Array, 4000K, >70CRI, L85-B10	TM65 Embodied Carbon = 538kg CO²e - TM66 Circular Economy Score = 2.7 (2.5-4.0 Excellent Circularity)
	2	B1 NST B 900w 5	SINGLE	900W LED 5000K AMNIS Flood with NSTB @ 8m New	107	0.00	5050 LED Array, 4000K, >70CRI, L85-B10	TM65 Embodied Carbon = 538kg CO²e - TM66 Circular Economy Score = 2.7 (2.5-4.0 Excellent Circularity)

Kingfisher Lighting

Part of the Luceco PLC group of companies LUCECO

A1

Project Title - Middleton Sport Club

Scale: 1: 500at A1

Project Number: 53542

Date: 20-09-2024

Drawing No.: Rev C

Lighting Designer : RS

For our LED lighting designs a 1mf has been used. If this differs from the maintenance period for this project then you must advise us accordingly

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