


	<p>DISCLAIMER: While every care is taken to ensure the accuracy of this data, the City of Joondalup makes no representations or warranties about its accuracy, completeness or suitability for any particular purpose and disclaims all liability for all expenses, losses, damages and costs which you might incur as a result of the data being inaccurate or incomplete in any way and for any reason.</p>	<p>Iluka Open Space</p>	<p>19/10/2022</p>	
			<p>1:2754</p>	



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			<p>1:2257</p>	



(On A1) - PITCH
Scale= 1: 600

Symbol	Label	Qty	Description	LLF
	F2 (3)	19	CHAMPION - 2000W MHN-LA (MD) Asymmetric floodlight, lamp pos 3	0.800
	CP3	10	CHAMPION PRO G3 432L757 A60 CP	0.880

Label	Description	Avg	Max	Min	Min/Avg	Min/Max	UG
Pitch 1A	Horizontal Illuminance @ Ground Level	50.37	89	35	0.69	0.39	1.31
Oval 1	Horizontal Illuminance @ Ground Level	52.17	178	16	0.31	0.09	N.A.
Oval 2	Horizontal Illuminance @ Ground Level	88.57	248	37	0.42	0.15	N.A.
Pitch 1	Horizontal Illuminance @ Ground Level	60.71	100	30	0.49	0.30	N.A.
Pitch 2	Horizontal Illuminance @ Ground Level	50.41	138	30	0.60	0.22	N.A.
Pitch 3	Horizontal Illuminance @ Ground Level	46.07	60	32	0.69	0.53	N.A.
Pitch 4	Horizontal Illuminance @ Ground Level	65.76	98	45	0.68	0.46	N.A.
Pitch 5	Horizontal Illuminance @ Ground Level	102.26	188	59	0.58	0.31	1.36

LumNo	Label	X	Y	Z	X-Aimpt	Y-Aimpt	Orient	Tilt	Switched
1	CP3	130.6	-40.5	25.25	76.133	-9.054	150	11	On
2	CP3	129.6	-41.5	25.25	70.5	-19.989	160	11	On
3	CP3	128.6	-42.5	25.25	66.663	-31.579	170	11	On
4	CP3	16.5	-66.75	25.25	58.843	-24.407	45	10	On
5	CP3	15	-66.75	25.25	41.58	-9.75	65	11	On
6	CP3	14	-66.75	25.25	31.127	-2.829	75	12	On
7	F2 (3)	13	-66.75	25.25	-2.499	-8.908	105	2	On
8	F2 (3)	12	-66.75	25.25	-46.253	-53.301	167	2	On
9	F2 (3)	-1.6	-104.6	25.25	-6.811	-45.042	95	2	On
10	F2 (3)	-2.6	-104.6	25.25	-54.376	-74.707	150	2	On
11	F2 (3)	-130.1	-106.6	25.25	-72.927	-89.12	17	2	On
12	F2 (3)	-131.1	-106.6	25.25	-112.625	-49.741	72	2	On
13	F2 (3)	-137.5	-106.6	25.25	-88.527	-80.791	325	2	On
14	F2 (3)	-137.5	-45.5	25.25	-91.702	-7.071	40	2	On
15	F2 (3)	-110.1	34.8	25.25	-91.625	-22.059	288	2	On
16	F2 (3)	-109.1	35.3	25.25	-50.223	24.918	350	2	On
17	F2 (3)	-12.1	75.1	25.25	-46.391	26.127	235	2	On
18	F2 (3)	-11.1	75.1	25.25	-5.889	15.542	275	2	On
19	F2 (3)	-10.1	75.1	25.25	28.329	29.302	310	2	On
20	F2 (3)	5.2	102.2	25.25	10.411	42.642	275	2	On
21	F2 (3)	6.2	102.2	25.25	53.947	66.22	323	2	On
22	F2 (3)	103	111.7	25.25	49.731	84.558	207	2	On
23	F2 (3)	104	111.7	25.25	98.789	52.142	265	2	On
24	F2 (3)	139.5	42.5	25.25	81.752	57.974	165	2	On
25	F2 (3)	139.5	41.5	25.25	80.297	33.179	188	2	On
26	CP3	140.6	41.65	25.25	77.726	12.331	205	13	On
27	CP3	140.6	40.65	25.25	83.447	0.631	215	13	On
28	CP3	140.6	39.65	25.25	87.152	-5.198	220	13	On
29	CP3	140.6	38.65	25.25	87.152	-6.198	220	13	On
Total Quantity: 29									

Obtrusive Light - Compliance Report
AS/NZS 4282-2019 All Maximum Glare Brightness Non-Curfew L2
Filename: 4708-4a

Illuminance
Maximum Allowable Value: 10 Lux
Calculations Tested (41):

Calculation Label	Test Result	Max. Value
Mammom_Aerua_Cd_Seg1	PASS	1
Mammom_Aerua_Cd_Seg2	PASS	2
Mammom_Aerua_Cd_Seg3	PASS	2
Mammom_Aerua_Cd_Seg4	PASS	0
Mammom_Aerua_Cd_Seg5	PASS	0
Ev_Baynton_Cd_Seg1	PASS	2
Ev_Baynton_Cd_Seg2	PASS	2
Ev_Baynton_Cd_Seg3	PASS	1
Ev_Baynton_Cd_Seg4	PASS	2
Ev_Baynton_Cd_Seg5	PASS	2
Ev_Baynton_Cd_Seg6	PASS	3
Ev_Baynton_Cd_Seg7	PASS	3
Ev_Baynton_Cd_Seg8	PASS	3
Ev_Baynton_Cd_Seg9	PASS	2
Ev_Baynton_Cd_Seg10	PASS	2
Ev_Baynton_Cd_Seg11	PASS	2
Ev_Baynton_Cd_Seg12	PASS	2
Ev_Baynton_Cd_Seg13	PASS	2
Ev_Baynton_Cd_Seg14	PASS	2
Ev_Baynton_Cd_Seg15	PASS	2
Ev_Baynton_Cd_Seg16	PASS	2
Ev_Baynton_Cd_Seg17	PASS	2
Ev_Baynton_Cd_Seg18	PASS	2
Ev_Baynton_Cd_Seg19	PASS	2
Ev_Baynton_Cd_Seg20	PASS	2
Ev_Baynton_Cd_Seg21	PASS	2
Ev_Baynton_Cd_Seg22	PASS	2
Ev_Baynton_Cd_Seg23	PASS	2
Ev_Baynton_Cd_Seg24	PASS	2
Ev_Baynton_Cd_Seg25	PASS	1
Ev_Baynton_Cd_Seg26	PASS	1
Ev_Baynton_Cd_Seg27	PASS	1
Ev_Baynton_Cd_Seg28	PASS	1
Ev_Baynton_Cd_Seg29	PASS	1
Ev_Baynton_Cd_Seg30	PASS	2
Ev_Baynton_Cd_Seg31	PASS	2
Ev_Baynton_Cd_Seg32	PASS	1
Ev_Baynton_Cd_Seg33	PASS	1
Ev_Baynton_Cd_Seg34	PASS	1
Ev_Baynton_Cd_Seg35	PASS	1
Ev_Baynton_Cd_Seg36	PASS	1
Ev_Baynton_Cd_Seg37	PASS	1
Ev_Baynton_Cd_Seg38	PASS	1
Ev_Baynton_Cd_Seg39	PASS	1
Ev_Baynton_Cd_Seg40	PASS	1
Ev_Baynton_Cd_Seg41	PASS	1
The Court_Cd_Seg1	PASS	2
The Court_Cd_Seg2	PASS	6
The Court_Cd_Seg3	PASS	6
The Court_Cd_Seg4	PASS	2
The Court_Cd_Seg5	PASS	2
The Court_Cd_Seg6	PASS	2

Luminous Intensity (Cd) At Vertical Planes
Maximum Allowable Value: 2500 Cd
Calculations Tested (41):

Calculation Label	Test Result
Mammom_Aerua_Cd_Seg1	PASS
Mammom_Aerua_Cd_Seg2	PASS
Mammom_Aerua_Cd_Seg3	PASS
Mammom_Aerua_Cd_Seg4	PASS
Mammom_Aerua_Cd_Seg5	PASS
Ev_Baynton_Cd_Seg1	PASS
Ev_Baynton_Cd_Seg2	PASS
Ev_Baynton_Cd_Seg3	PASS
Ev_Baynton_Cd_Seg4	PASS
Ev_Baynton_Cd_Seg5	PASS
Ev_Baynton_Cd_Seg6	PASS
Ev_Baynton_Cd_Seg7	PASS
Ev_Baynton_Cd_Seg8	PASS
Ev_Baynton_Cd_Seg9	PASS
Ev_Baynton_Cd_Seg10	PASS
Ev_Baynton_Cd_Seg11	PASS
Ev_Baynton_Cd_Seg12	PASS
Ev_Baynton_Cd_Seg13	PASS
Ev_Baynton_Cd_Seg14	PASS
Ev_Baynton_Cd_Seg15	PASS
Ev_Baynton_Cd_Seg16	PASS
Ev_Baynton_Cd_Seg17	PASS
Ev_Baynton_Cd_Seg18	PASS
Ev_Baynton_Cd_Seg19	PASS
Ev_Baynton_Cd_Seg20	PASS
Ev_Baynton_Cd_Seg21	PASS
Ev_Baynton_Cd_Seg22	PASS
Ev_Baynton_Cd_Seg23	PASS
Ev_Baynton_Cd_Seg24	PASS
Ev_Baynton_Cd_Seg25	PASS
Ev_Baynton_Cd_Seg26	PASS
Ev_Baynton_Cd_Seg27	PASS
Ev_Baynton_Cd_Seg28	PASS
Ev_Baynton_Cd_Seg29	PASS
Ev_Baynton_Cd_Seg30	PASS
Ev_Baynton_Cd_Seg31	PASS
Ev_Baynton_Cd_Seg32	PASS
Ev_Baynton_Cd_Seg33	PASS
Ev_Baynton_Cd_Seg34	PASS
Ev_Baynton_Cd_Seg35	PASS
Ev_Baynton_Cd_Seg36	PASS
Ev_Baynton_Cd_Seg37	PASS
Ev_Baynton_Cd_Seg38	PASS
Ev_Baynton_Cd_Seg39	PASS
Ev_Baynton_Cd_Seg40	PASS
Ev_Baynton_Cd_Seg41	PASS
The Court_Cd_Seg1	PASS
The Court_Cd_Seg2	PASS
The Court_Cd_Seg3	PASS
The Court_Cd_Seg4	PASS
The Court_Cd_Seg5	PASS
The Court_Cd_Seg6	PASS

Threshold Increment (TI)
Maximum Allowable Value: 20 %
Calculations Tested (4):

Calculation Label	Adaptation Test	Test Result
TI_Luminaire_E	Adaptation Test	PASS
TI_Luminaire_B	Adaptation Test	PASS
TI_Luminaire_C	Adaptation Test	PASS
TI_Luminaire_D	Adaptation Test	PASS

Upward Waste Light Ratio (UWLR)
Maximum Allowable Value: 2.5 %
Calculations: 0.1 %
Test Results: PASS

LLF: 1

Note:

- This design is compliant with the requirements of Australian Standards AS2560.2-2021 'Lighting of Football' Amateur level - Club Comp & Match Practice for Pitch 5 and Training for the rest, however it should be taken as provisional on as all dimension, pole locations and heights must be confirmed before installation.
- An assessment of the floodlight system in accordance with the requirements of AS/NZS 4282-2019 'The obtrusive effect of outdoor lighting' has been performed and the system is fully compliant for non-curfew Lvl 2, A3 Zone.
- The pole heights specified in this design proposal should be taken as notional and are taken as the vertical distance from the base of the pole to the top cross-arm and assumes that the base is at the same relative height as the centre of the field. They therefore do not take into consideration the topography of the site. An analysis of the site topography should be taken into account when determining the actual required heights of each poles.



OVALS
Not to Scale

zumtobel group
2/7 Millner Ave, Horsley Park NSW 2175

Project: **Iluka District Open Space**

Scene: **PITCH 5 - LED**

Project No: 4708	PT/Quote No: 1644313	Date: 31-May-22
Drawing No: 4708-4a	Lighting Engineer:	
Revision No: 0	File: 4708-4a.AGI	

acdc THORN THORNeco TRIDONIC zgs zumtobel group ZUMTOBEL