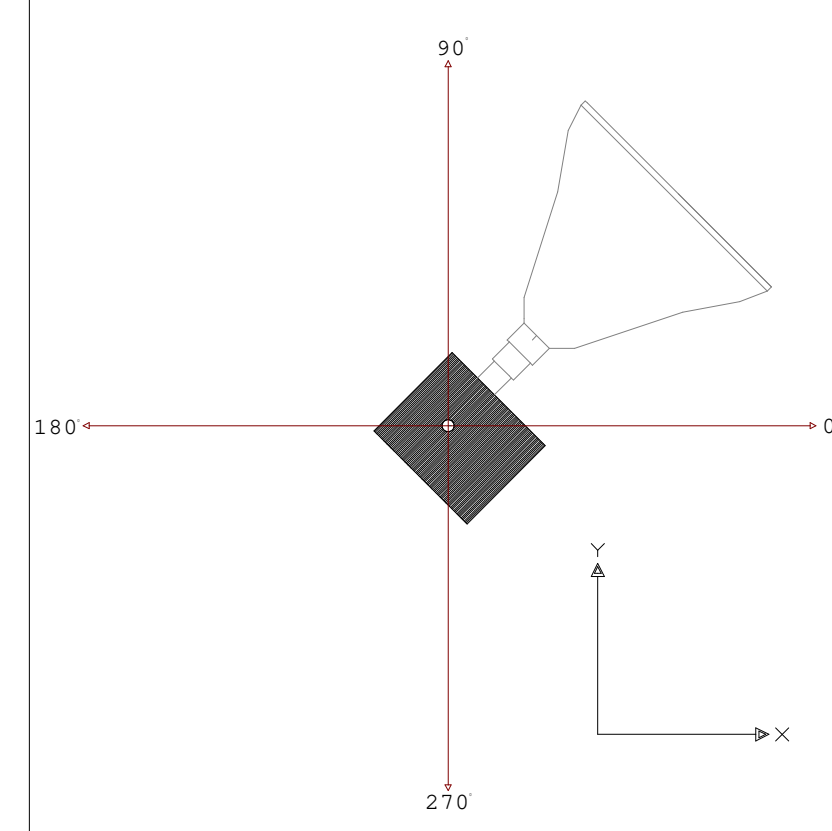


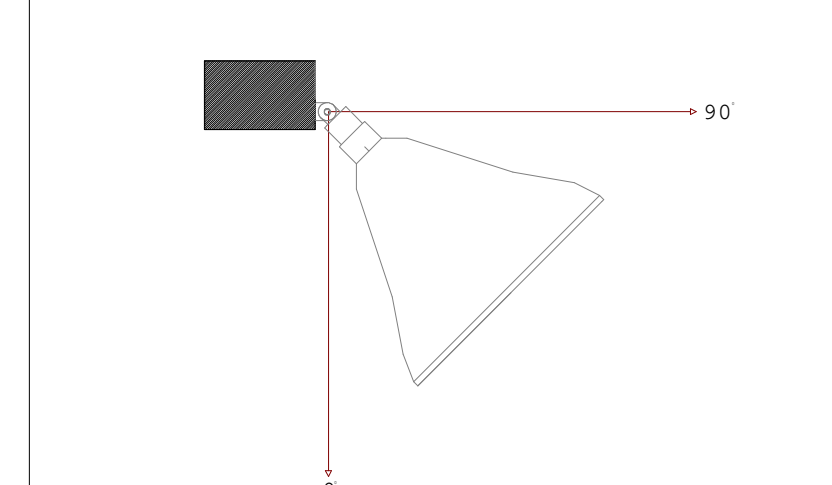
Luminaire Schedule						
Symbol	Qty	Label	Arrangement	lum. Lumens	LLF	Description
	4	LS-1	SINGLE	84402	0.950	EPH-08-06401-57-70-18-REG
	4	LS-2	SINGLE	90985	0.950	EPH-08-06401-57-70-28-REG
	56	LS-3	SINGLE	89640	0.950	EPH-08-06401-57-70-38-REG
	4	LS-4	SINGLE	89594	0.950	EPH-08-06401-57-70-48-REG
	18	LS-5	SINGLE	90904	0.950	EPH-08-06401-57-70-58-REG

Calculation Summary										
Project: Project_1										
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Grid X	Grid Y	
Field 1 # 3' AFF	Illuminance	Fc	37.55	65.3	19.2	1.96	3.40	3		
Field 2 # 3' AFF	Illuminance	Fc	36.22	70.0	18.9	1.92	3.70	3		
Field 3 # 3' AFF	Illuminance	Fc	36.43	64.3	19.6	1.96	3.46	3		
INFIELD 1	Illuminance	Fc	54.19	65.3	34.1	1.59	1.91			
INFIELD 2	Illuminance	Fc	54.71	70.0	37.9	1.44	1.85			
INFIELD 3	Illuminance	Fc	50.81	64.6	36.4	1.40	1.77			
OUTFIELD 1	Illuminance	Fc	32.65	64.2	19.2	1.70	2.10			
OUTFIELD 2	Illuminance	Fc	30.97	43.9	18.9	1.64	2.32			
OUTFIELD 3	Illuminance	Fc	32.28	45.6	18.6	1.74	2.45			

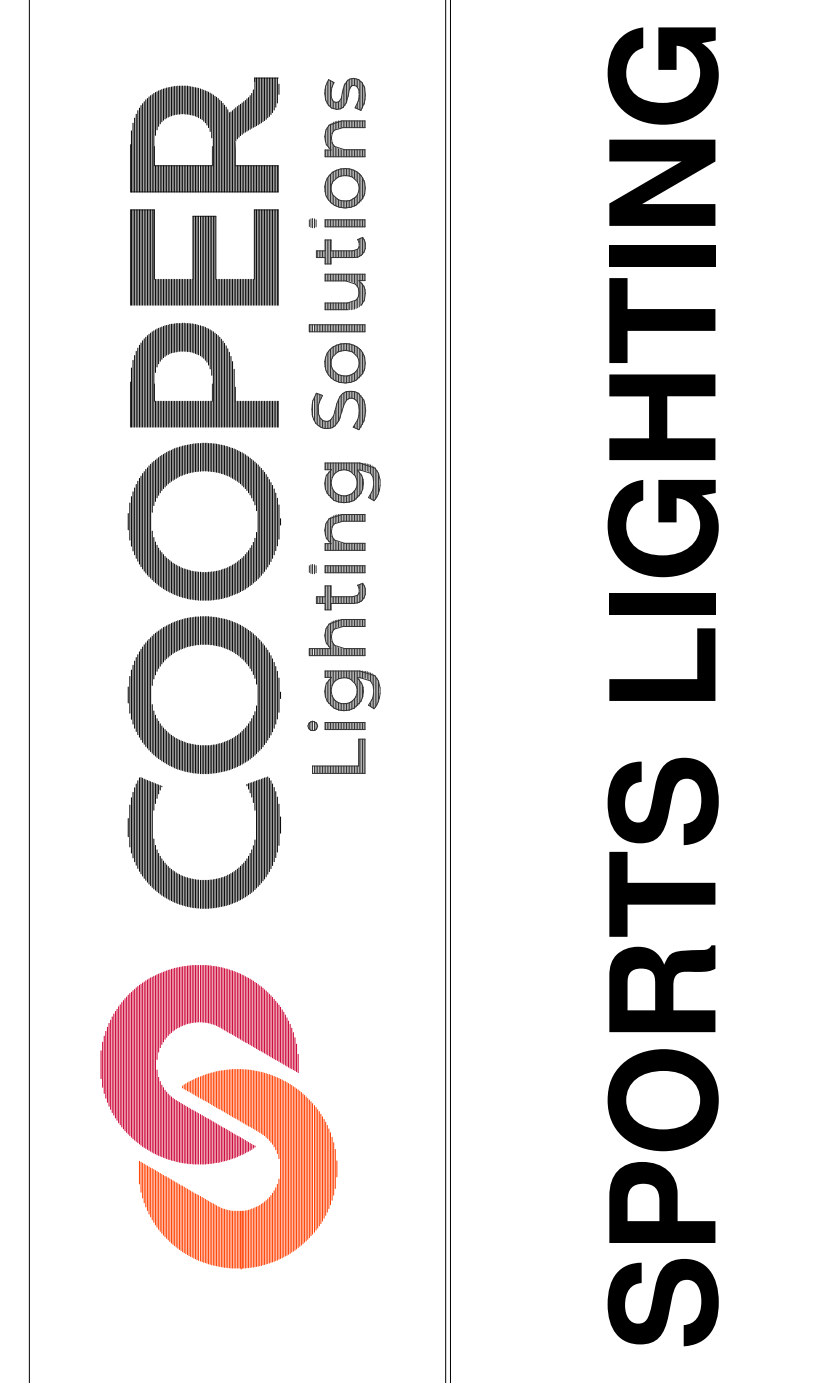
Expanded Luminaire Location Summary										
Lumino	Label	X	Y	Z	Orient	Tilt	X-Aimpt	Y-Aimpt		
1	LS-3	-7	258	60	257.821	67.158	-37.05	118.764		
2	LS-3	-7	258	60	245.197	68	-69.258	123.194		
3	LS-3	-7	258	60	210.828	69	-124.523	181.897		
4	LS-3	-7	258	60	337.701	68	102.841	158.056		
5	LS-3	-7	258	60	282.179	67.158	23.05	118.764		
6	LS-3	-7	258	60	294.803	68	55.299	123.194		
7	LS-3	-7	258	60	249.172	68	-120.523	181.897		
8	LS-3	-7	258	60	238.533	66.749	-89	145		
9	LS-4	-9	258	60	351.87	66.867	84	245		
10	LS-3	-7	258	60	188.326	64.235	-130	245		
11	LS-3	-7	258	60	307.593	67.162	80	145		
12	LS-3	-7	258	60	205.145	66	-120.523	276.007		
13	LS-3	-7	258	60	222.299	69	-116.841	125.056		
14	LS-3	-7	258	60	313.452	40	27.425	221.451		
15	LS-1	-7	258	60	243.554	71	160.129	208.667		
16	LS-2	-7	258	60	338.623	71	150.271	194.901		
17	LS-2	-7	258	60	244.134	71	-145.772	184.286		
18	LS-1	-7	258	60	197.819	71	-172.893	204.677		
19	LS-5	0	61	60	214.685	38.329	-39	34		
20	LS-5	0	61	60	137.603	46.073	-46	103		
21	LS-3	0	61	60	188.708	41.33	-123.299	42.104		
22	LS-3	0	61	60	199.181	65.729	-109.649	27.992		
23	LS-3	0	61	60	45	45	42.426	103.426		
24	LS-5	0	61	60	312.797	31.52	25	34		
25	LS-3	0	61	60	145.514	67.173	-117.496	143.709		
26	LS-3	0	61	60	19.983	62.498	109.31	105.385		
27	LS-3	0	61	60	110.103	65.743	90	176		
28	LS-3	0	61	60	159.6	64.97	-120.436	105.129		
29	LS-3	0	61	60	337.816	59.853	85.663	21.992		
30	LS-3	0	61	60	37.948	65.432	103.456	141.709		
31	LS-3	243	23	60	148.511	64.601	119.167	48.169		
32	LS-3	243	23	60	158.709	65.3	146	159		
33	LS-3	243	23	60	351.374	65.913	125.184	87.288		
34	LS-3	243	23	60	314.528	67.148	189.897	152.523		
35	LS-3	243	23	60	126.162	66.688	160.056	134.843		
36	LS-3	243	23	60	197.144	65.699	144	113		
37	LS-3	243	23	60	110.103	65.743	90	176		
38	LS-3	243	23	60	88.493	51.719	245	99		
39	LS-5	243	23	60	129.411	31.52	219.539	51.348		
40	LS-5	61	0	60	137.203	31.52	34	25		
41	LS-3	61	0	60	52.053	45.432	-145.709	103.496		
42	LS-3	61	0	60	112.184	59.823	21.95	95.663		
43	LS-3	61	0	60	99.8	61.611	42.104	105.399		
44	LS-3	61	0	60	70.037	62.498	100.385	108.31		
45	LS-5	61	0	60	45	45	103.426	42.426		
46	LS-3	-14	-75	60	137.948	66.482	137.496	-155.709		
47	LS-3	-14	-75	60	239.369	60.957	-53	-157		
48	LS-3	-14	-75	60	115.346	35.023	-32	-37		
49	LS-3	-14	-75	60	157.816	59.853	-109.663	-35.992		
50	LS-3	-14	-75	60	170.2	61.611	-129.399	-56.104		
51	LS-3	-14	-75	60	189.255	62.498	-137.496	-105.324		
52	LS-3	-22	-252	60	131.785	44.548	-106	-159		
53	LS-3	-22	-252	60	93.311	64.082	-29.331	-128.74		
54	LS-3	-22	-252	60	110.714	65.488	-68.542	-128.923		
55	LS-4	-22	-252	60	177.649	57.245	-115.139	-247.139		
56	LS-3	-22	-252	60	144.443	64.422	-133.841	-172.004		
57	LS-3	-22	-252	60	136.58	66.971	-151.523	-195.897		
58	LS-3	-22	-252	60	164.407	70.733	-187.332	-205.86		
59	LS-3	-22	-252	60	136.975	33.816	-51.382	-224.577		
60	LS-2	-22	-252	60	160.615	70.953	-182.301	-155.896		
61	LS-3	-22	-252	60	42.937	31.52	-48	25		
62	LS-5	-75	0	60	121.759	45	-104.581	51.016		
63	LS-5	-75	0	60	225.725	42.957	-114	-40		
64	LS-3	-75	0	60	321.766	35	-42	-26		
65	LS-3	-75	0	60	258.548	64.97	-109.235	-123.85		
66	LS-3	-75	0	60	178.706	64.33	-56.104	-123.789		
67	LS-3	-75	0	60	235.514	67.173	-155.709	-137.496		
68	LS-3	-75	0	60	289.581	62.729	-135.992	-109.663		
69	LS-3	-75	0	60	127.948	65.432	-155.709	103.496		
70	LS-2	-75	0	60	80.2	61.611	-54.104	105.399		
71	LS-3	-75	0	60	47.816	59.853	-35.992	95.663		
72	LS-3	-75	0	60	104.868	62.498	-104.572	112.391		
73	LS-1	-272	-7	60	71.384	71	-216.288	158.106		
74	LS-3	-272	-7	60	247.821	67.158	-132.764	-37.05		
75	LS-3	-272	-7	60	47.701	68	-123.256	105.861		
76	LS-2	-272	-7	60	295.867	71	-195.703	134.443		
77	LS-3	-272	-7	60	12.179	67.158	-132.764	23.05		
78	LS-1	-272	-7	60	288.127	71	-217.786	-172.604		
79	LS-2	-272	-7	60	66.14	71	-201.514	152.36		
80	LS-5	-272	-7	60	116.548	40	-235.451	-141.825		
81	LS-3	-272	-7	60	278.112	56.867	-259	-98		
82	LS-4	-272	-7	60	75.51	56.867	-249	82		
83	LS-3	-272	-7	60	41.009	68	-159.937	95.446		
84	LS-3	-272	-7	60	19.885	68	-132.349	43.512		
85	LS-3	-272	-7	60	41.002	68	-200.949	122.911		
86	LS-3	-272	-7	60	335.197	68	-137.134	-65.298		
87	LS-5	-272	-7	60	43.452	40	-235.451	27.625		
88	LS-3	-272	-7	60	100.828	68	-195.897	-134.523		
89	LS-3	-272	-7	60	124.975	67.22	-155	-89		
90	LS-3	-272	-7	60	312.299	68	-172.056	-116.843		
Total Quantity: 90										



ORIENTATION OF FLOOD



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Client:
**Ed Columbo
Reflex Lighting Group**

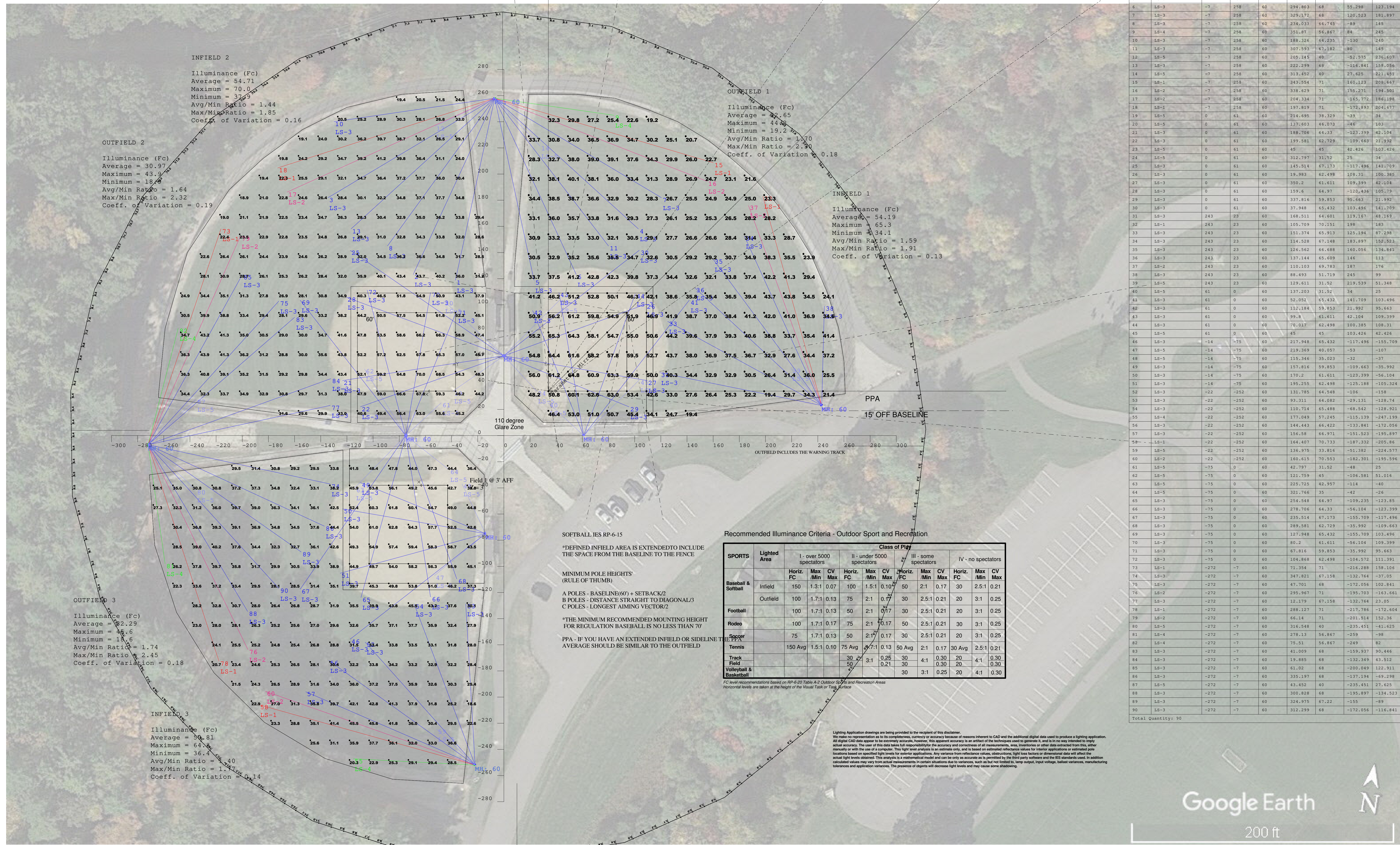
Project Name:
**EPH
Forge Park
Fields**

Project #:
2101485 B.AGI

Date:
1/21/2022

Scale:
1" = 30'

Drawing by:
JR

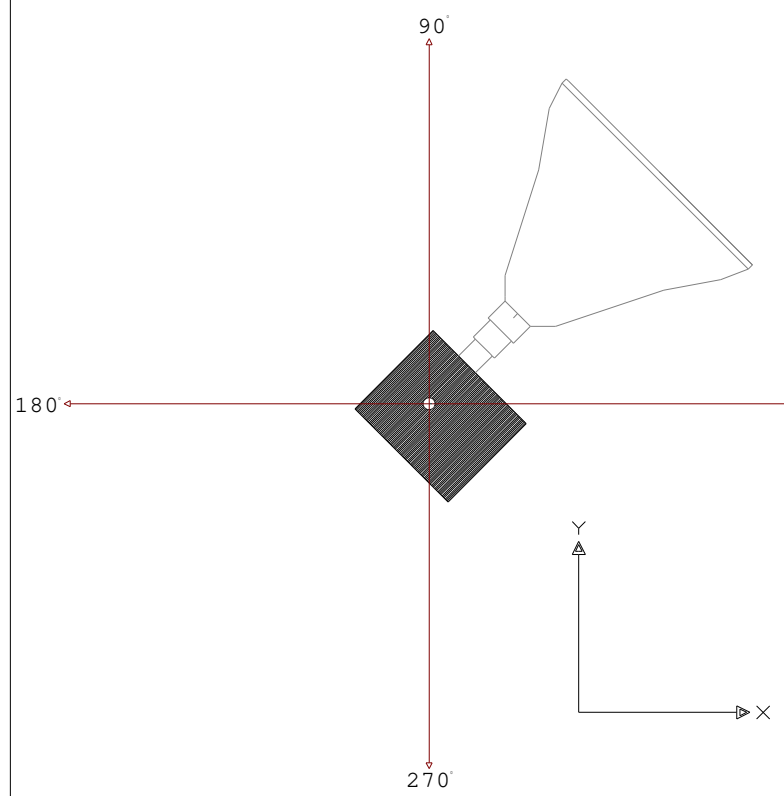


Scale: 1 inch= 30 Ft.

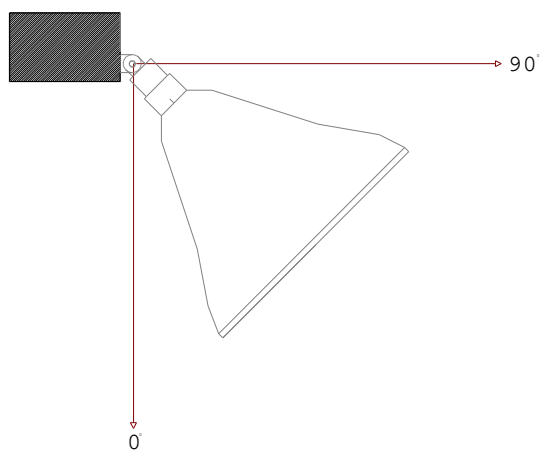
Recommended Illuminance Criteria - Outdoor Sport and Recreation

SPORTS	Lighted Area	Class of Play											
		I - over 5000 spectators			II - under 5000 spectators			III - some spectators			IV - no spectators		
		Horiz. FC	Max CV	CV Max	Horiz. FC	Max CV	CV Max	Horiz. FC	Max CV	CV Max	Horiz. FC	Max CV	CV Max
Baseball & Softball	Infield	150	1.31	0.07	100	1.51	0.10	60	2.1	0.17	30	2.51	0.21
	Outfield	100	1.71	0.13	75	2.1	0.17	30	2.51	0.21	20	3.1	0.25
Football		100	1.71	0.13	50	2.1	0.17	30	2.51	0.21	20	3.1	0.25
Rodeo		100	1.71	0.17	75	2.1	0.17	50	2.51	0.21	30	3.1	0.25
THESE ARE THE MINIMUM REQUIREMENTS FOR THE FOLLOWING		75	1.71	0.13	50	2.1	0.17	30	2.51	0.21	20	3.1	0.25
	Tennis	150 Avg	1.51	0.10	75 Avg	1.71	0.13	50 Avg	2.1	0.17	30 Avg	2.51	0.21
Track & Field			30	0.25	30	0.25	30	4.1	0.30	20	4.1	0.30	
Volleyball & Basketball			50	0.25	50	0.21	40	0.25	20	0.30	20	0.30	
					30	0.25	20	0.31	20	0.31	20	0.30	

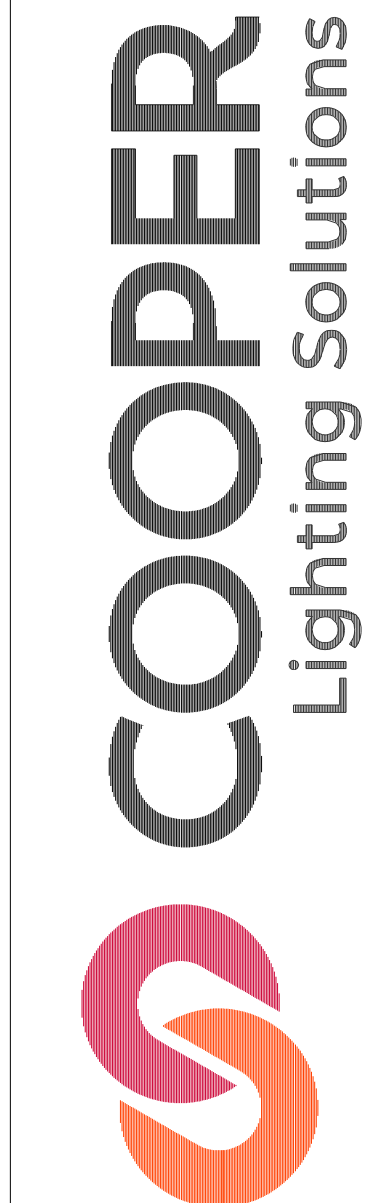
Calculation Summary								
Project: Glare Calcs								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Grid Z
Spill Calcs_Cd_Seg1	Obtrusive - Cd	N.A.	148305	186598	132027	1.12	1.41	N.A.
Spill Calcs_Cd_Seg10	Obtrusive - Cd	N.A.	344304	400844	282163	1.22	1.42	N.A.
Spill Calcs_Cd_Seg11	Obtrusive - Cd	N.A.	353072	393840	281305	1.26	1.40	N.A.
Spill Calcs_Cd_Seg12	Obtrusive - Cd	N.A.	252085	282726	204711	1.23	1.38	N.A.
Spill Calcs_Cd_Seg13	Obtrusive - Cd	N.A.	152898	186215	140993	1.08	1.32	N.A.
Spill Calcs_Cd_Seg14	Obtrusive - Cd	N.A.	131549	145316	111745	1.18	1.30	N.A.
Spill Calcs_Cd_Seg15	Obtrusive - Cd	N.A.	115857	118502	110859	1.05	1.07	N.A.
Spill Calcs_Cd_Seg16	Obtrusive - Cd	N.A.	118775	122305	109929	1.08	1.11	N.A.
Spill Calcs_Cd_Seg17	Obtrusive - Cd	N.A.	112014	120554	102889	1.09	1.17	N.A.
Spill Calcs_Cd_Seg18	Obtrusive - Cd	N.A.	118700	125545	114535	1.04	1.10	N.A.
Spill Calcs_Cd_Seg19	Obtrusive - Cd	N.A.	140120	143543	132311	1.06	1.08	N.A.
Spill Calcs_Cd_Seg2	Obtrusive - Cd	N.A.	251208	283950	204740	1.23	1.39	N.A.
Spill Calcs_Cd_Seg20	Obtrusive - Cd	N.A.	156158	188627	136013	1.15	1.39	N.A.
Spill Calcs_Cd_Seg21	Obtrusive - Cd	N.A.	266311	317416	214941	1.24	1.48	N.A.
Spill Calcs_Cd_Seg22	Obtrusive - Cd	N.A.	346029	377019	268193	1.29	1.41	N.A.
Spill Calcs_Cd_Seg23	Obtrusive - Cd	N.A.	352143	396599	250088	1.41	1.59	N.A.
Spill Calcs_Cd_Seg24	Obtrusive - Cd	N.A.	245781	316055	177543	1.38	1.78	N.A.
Spill Calcs_Cd_Seg25	Obtrusive - Cd	N.A.	143567	147870	140487	1.02	1.05	N.A.
Spill Calcs_Cd_Seg3	Obtrusive - Cd	N.A.	334935	357673	299536	1.12	1.19	N.A.
Spill Calcs_Cd_Seg4	Obtrusive - Cd	N.A.	299915	363017	239333	1.25	1.52	N.A.
Spill Calcs_Cd_Seg5	Obtrusive - Cd	N.A.	314125	365092	271915	1.16	1.34	N.A.
Spill Calcs_Cd_Seg6	Obtrusive - Cd	N.A.	208444	263126	150752	1.38	1.75	N.A.
Spill Calcs_Cd_Seg7	Obtrusive - Cd	N.A.	142505	144650	137239	1.04	1.05	N.A.
Spill Calcs_Cd_Seg8	Obtrusive - Cd	N.A.	171691	237816	135869	1.26	1.75	N.A.
Spill Calcs_Cd_Seg9	Obtrusive - Cd	N.A.	330467	404471	257654	1.28	1.57	N.A.
Spill Calcs_Ill_Seg1	Obtrusive - Ill	Fc	6.59	7.3	6.1	1.08	1.20	N.A.
Spill Calcs_Ill_Seg10	Obtrusive - Ill	Fc	18.75	20.0	16.8	1.12	1.19	N.A.
Spill Calcs_Ill_Seg11	Obtrusive - Ill	Fc	14.73	17.6	11.1	1.33	1.59	N.A.
Spill Calcs_Ill_Seg12	Obtrusive - Ill	Fc	8.16	11.0	5.3	1.54	2.08	N.A.
Spill Calcs_Ill_Seg13	Obtrusive - Ill	Fc	4.64	5.7	3.8	1.22	1.50	N.A.
Spill Calcs_Ill_Seg14	Obtrusive - Ill	Fc	3.16	3.9	2.4	1.32	1.63	N.A.
Spill Calcs_Ill_Seg15	Obtrusive - Ill	Fc	2.13	2.5	1.9	1.12	1.32	N.A.
Spill Calcs_Ill_Seg16	Obtrusive - Ill	Fc	1.90	1.9	1.9	1.00	1.00	N.A.
Spill Calcs_Ill_Seg17	Obtrusive - Ill	Fc	1.91	2.0	1.9	1.01	1.05	N.A.
Spill Calcs_Ill_Seg18	Obtrusive - Ill	Fc	2.21	2.6	1.9	1.16	1.37	N.A.
Spill Calcs_Ill_Seg19	Obtrusive - Ill	Fc	3.08	3.6	2.5	1.23	1.44	N.A.
Spill Calcs_Ill_Seg2	Obtrusive - Ill	Fc	8.99	11.3	7.1	1.27	1.59	N.A.
Spill Calcs_Ill_Seg20	Obtrusive - Ill	Fc	4.31	5.6	3.3	1.31	1.70	N.A.
Spill Calcs_Ill_Seg21	Obtrusive - Ill	Fc	8.68	12.0	5.5	1.58	2.18	N.A.
Spill Calcs_Ill_Seg22	Obtrusive - Ill	Fc	14.94	17.0	12.0	1.25	1.42	N.A.
Spill Calcs_Ill_Seg23	Obtrusive - Ill	Fc	16.71	18.4	13.4	1.25	1.37	N.A.
Spill Calcs_Ill_Seg24	Obtrusive - Ill	Fc	10.38	13.4	7.8	1.33	1.72	N.A.
Spill Calcs_Ill_Seg25	Obtrusive - Ill	Fc	6.60	7.5	6.1	1.08	1.23	N.A.
Spill Calcs_Ill_Seg3	Obtrusive - Ill	Fc	14.41	16.2	11.5	1.25	1.41	N.A.
Spill Calcs_Ill_Seg4	Obtrusive - Ill	Fc	16.36	17.4	14.2	1.15	1.23	N.A.
Spill Calcs_Ill_Seg5	Obtrusive - Ill	Fc	11.30	14.5	8.3	1.36	1.75	N.A.
Spill Calcs_Ill_Seg6	Obtrusive - Ill	Fc	7.16	8.5	6.2	1.15	1.37	N.A.
Spill Calcs_Ill_Seg7	Obtrusive - Ill	Fc	6.44	6.6	6.4	1.01	1.03	N.A.
Spill Calcs_Ill_Seg8	Obtrusive - Ill	Fc	8.41	10.4	6.6	1.27	1.58	N.A.
Spill Calcs_Ill_Seg9	Obtrusive - Ill	Fc	13.91	17.3	10.6	1.31	1.63	N.A.



ORIENTATION OF FLOOD



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SPORTS LIGHTING

Client:
Ed Columbo
Reflex Lighting Group

Project Name:
EPH
Forge Park
Fields

Project #: 2101485 B.AGI	Drawing by:
Date: 1/21/2022	JR
Scale: 1" = 30'	