



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-05L-30-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11790
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 05/01/20
[MANUFACT] LSI INDUSTRIES, INC.
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCE TYPE] LED
[SEARCH_APPLICATION] Outdoor
[LUMCAT] ENM4-SAX-3-LED-05L-30-IL
[FACTORED] SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4395
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4726
Maximum Candela Angle	52.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	4726
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 62.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	220 (5.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-05L-30-IL.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	225.3	N.A.	5.1
FM - Front-Medium (30-60)	2273.0	N.A.	51.7
FH - Front-High (60-80)	1420.4	N.A.	32.3
FVH - Front-Very High (80-90)	28.3	N.A.	0.6
BL - Back-Low (0-30)	125.5	N.A.	2.9
BM - Back-Medium (30-60)	261.9	N.A.	6.0
BH - Back-High (60-80)	57.2	N.A.	1.3
BVH - Back-Very High (80-90)	3.1	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	4394.7	N.A.	100.0
BUG Rating	B1-U0-G1		

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-05L-30-IL.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>52.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	402	402	402	402	402	402	402	402	402	402
2.5	397	398	398	399	398	399	398	400	400	400
5.0	391	391	393	394	395	396	396	398	400	400
7.5	380	382	384	386	390	394	395	397	400	401
10.0	373	374	377	380	385	389	394	396	401	403
12.5	371	373	375	380	386	392	397	399	407	409
15.0	379	379	383	391	400	405	410	411	417	417
17.5	401	403	407	416	426	431	435	436	436	433
20.0	444	448	451	458	468	474	477	477	473	463
22.5	512	516	522	524	533	545	544	543	534	519
25.0	598	606	611	617	629	644	641	638	626	595
27.5	709	716	725	733	751	773	774	762	744	689
30.0	825	832	847	861	894	918	918	912	874	793
32.5	942	940	962	991	1040	1071	1070	1062	1006	902
35.0	1060	1060	1082	1129	1186	1225	1224	1210	1143	1007
37.5	1198	1203	1227	1279	1331	1378	1378	1358	1269	1097
40.0	1370	1379	1400	1446	1486	1535	1528	1499	1378	1171
42.5	1578	1587	1611	1651	1687	1696	1678	1640	1473	1243
45.0	1848	1859	1876	1911	1916	1876	1827	1776	1565	1317
47.5	2184	2214	2265	2258	2226	2132	2004	1935	1672	1425
50.0	2499	2544	2606	2643	2594	2432	2241	2153	1828	1646
52.5	2742	2767	2953	3126	3087	2814	2575	2460	2135	1965
55.0	2883	2926	3135	3446	3516	3299	3081	2967	2599	2331
57.5	2632	2669	3034	3531	3843	3774	3704	3638	3256	2542
60.0	1995	2054	2476	3196	3907	4204	4366	4344	3613	2655
62.5	1147	1209	1611	2381	3515	4360	4726	4708	3795	2705
65.0	472	513	751	1411	2635	4015	4652	4708	3826	2509
67.5	258	270	360	658	1710	3103	4134	4316	3480	1961
70.0	159	167	208	371	867	1980	3133	3440	2612	1346
72.5	110	114	144	250	499	1021	1821	2094	1649	588
75.0	75	78	102	197	361	512	811	1005	709	230
77.5	53	55	74	156	291	304	331	388	344	123
80.0	40	43	58	121	220	191	159	162	171	77
82.5	31	33	47	97	145	115	83	82	87	57
85.0	23	25	37	75	93	59	45	45	47	38
87.5	16	16	26	48	36	21	17	16	16	17
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	402	402	402	402	402	402	402	402	402	402
2.5	402	405	405	405	408	410	408	408	407	407
5.0	405	406	409	409	413	418	418	419	420	420
7.5	407	408	411	413	420	425	425	423	422	420
10.0	408	410	414	418	425	429	421	403	384	368
12.5	410	411	417	422	427	419	384	340	305	277
15.0	414	416	420	425	423	380	316	267	237	218
17.5	426	422	425	428	403	325	255	224	203	190
20.0	450	441	436	431	368	273	222	200	186	173
22.5	489	472	456	431	325	244	203	186	179	163
25.0	543	509	483	420	288	227	190	179	184	169
27.5	602	552	511	398	265	214	180	176	202	197

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-05L-30-IL.IES

CANDELA TABULATION - (Cont.)

30.0	668	599	538	372	247	204	172	180	235	236
32.5	736	645	563	350	227	197	167	187	272	272
35.0	799	685	582	333	210	191	161	188	314	305
37.5	851	716	596	314	196	183	154	185	355	358
40.0	893	741	607	295	182	171	146	175	395	368
42.5	944	772	616	283	172	160	137	159	410	269
45.0	1012	827	645	287	162	149	124	142	336	186
47.5	1159	929	697	300	153	135	109	120	186	137
50.0	1359	1064	755	312	139	111	88	100	102	107
52.5	1589	1201	812	321	116	78	60	69	67	89
55.0	1742	1274	825	313	86	51	43	46	47	74
57.5	1833	1292	793	279	63	41	34	32	35	60
60.0	1895	1256	693	234	54	37	28	25	27	50
62.5	1831	1093	505	178	48	33	25	20	23	43
65.0	1547	876	353	126	43	28	21	16	19	37
67.5	1126	629	223	80	35	22	16	13	14	30
70.0	590	324	120	50	25	16	11	9	9	25
72.5	219	140	69	35	17	11	7	6	5	17
75.0	108	81	53	29	13	7	5	4	3	12
77.5	61	53	43	27	10	5	3	3	2	7
80.0	46	40	37	23	7	4	3	2	2	5
82.5	33	30	29	17	5	3	2	2	1	3
85.0	21	20	21	11	3	3	2	2	1	2
87.5	10	8	10	5	2	2	2	2	1	1
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

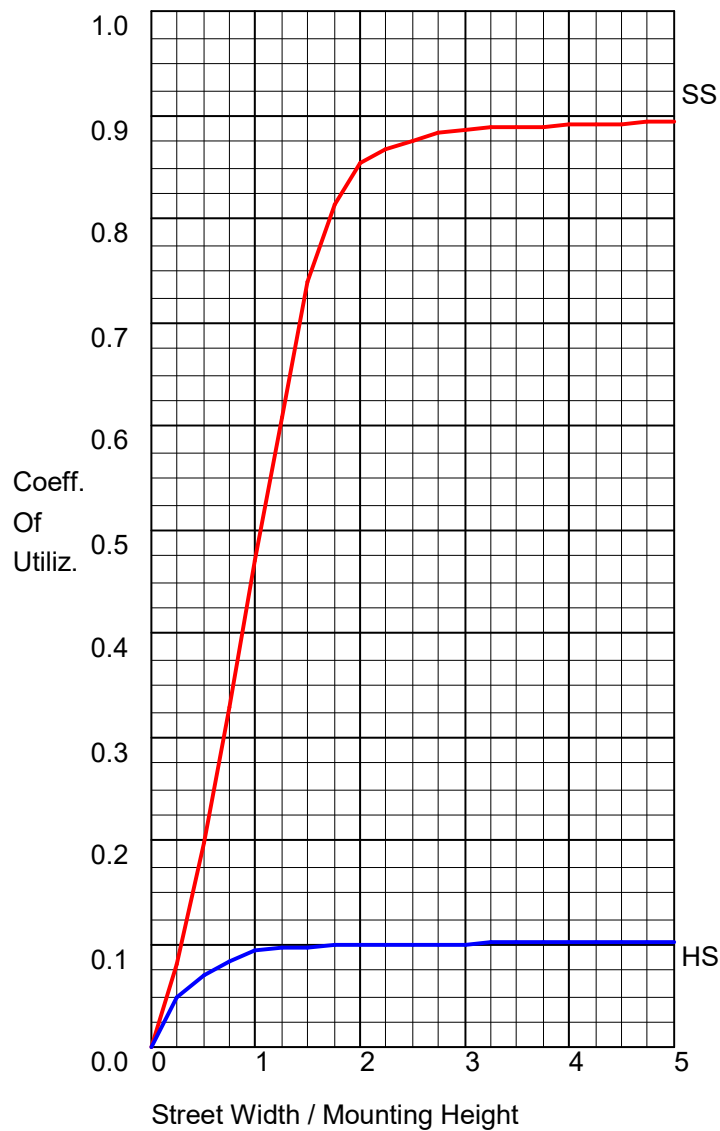
	<u>175.0</u>	<u>180.0</u>
0.0	402	402
2.5	405	408
5.0	416	419
7.5	414	412
10.0	356	348
12.5	263	261
15.0	209	208
17.5	183	182
20.0	165	164
22.5	152	151
25.0	152	150
27.5	165	161
30.0	189	178
32.5	200	188
35.0	218	205
37.5	218	196
40.0	168	147
42.5	120	106
45.0	91	83
47.5	76	67
50.0	68	57
52.5	63	48
55.0	60	45
57.5	60	47
60.0	63	51
62.5	65	57
65.0	65	60

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-05L-30-IL.IES

CANDELA TABULATION - (Cont.)

67.5	62	59
70.0	54	52
72.5	43	43
75.0	31	32
77.5	21	24
80.0	16	16
82.5	10	11
85.0	6	7
87.5	4	4
90.0	0	0

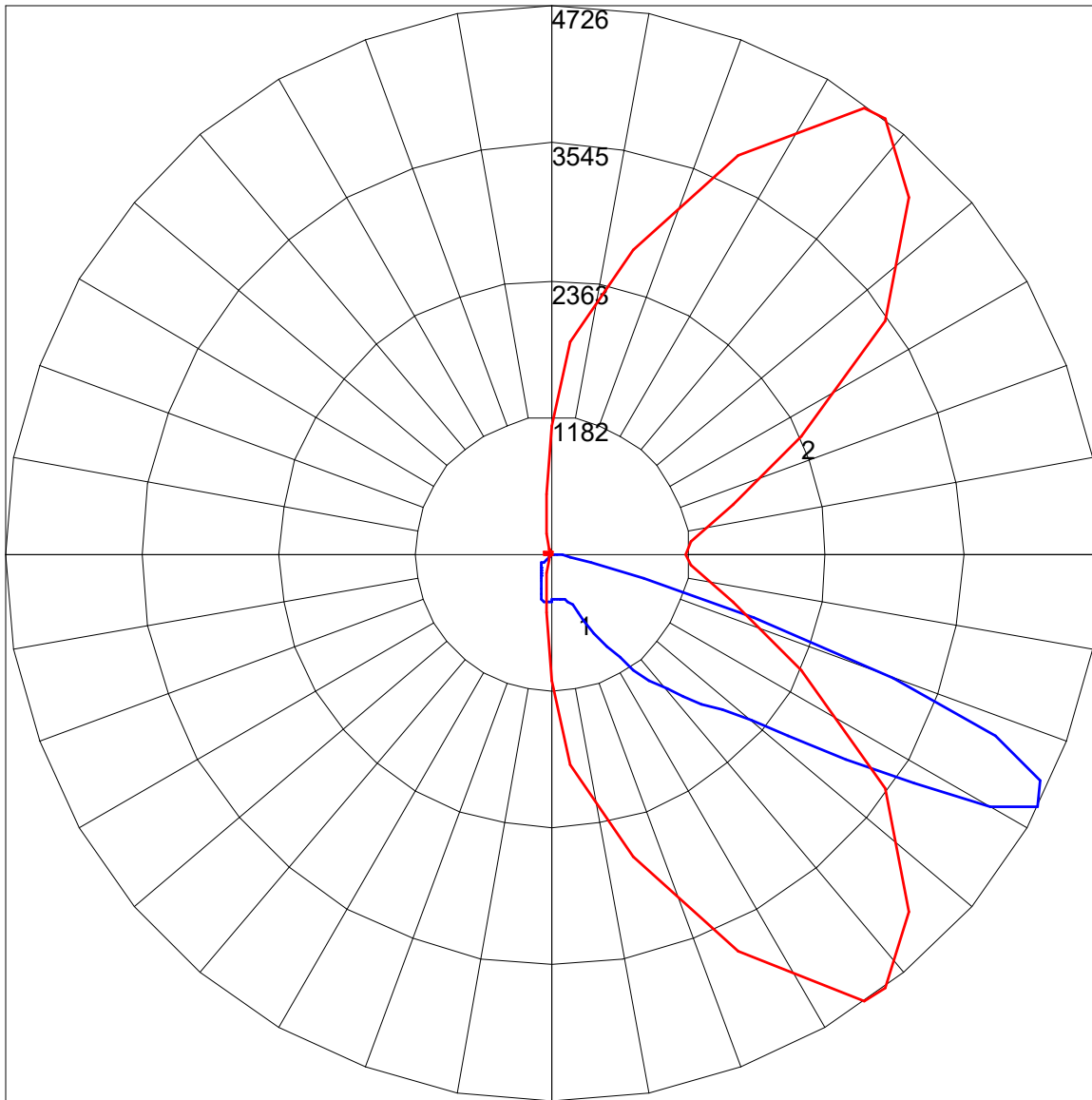
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

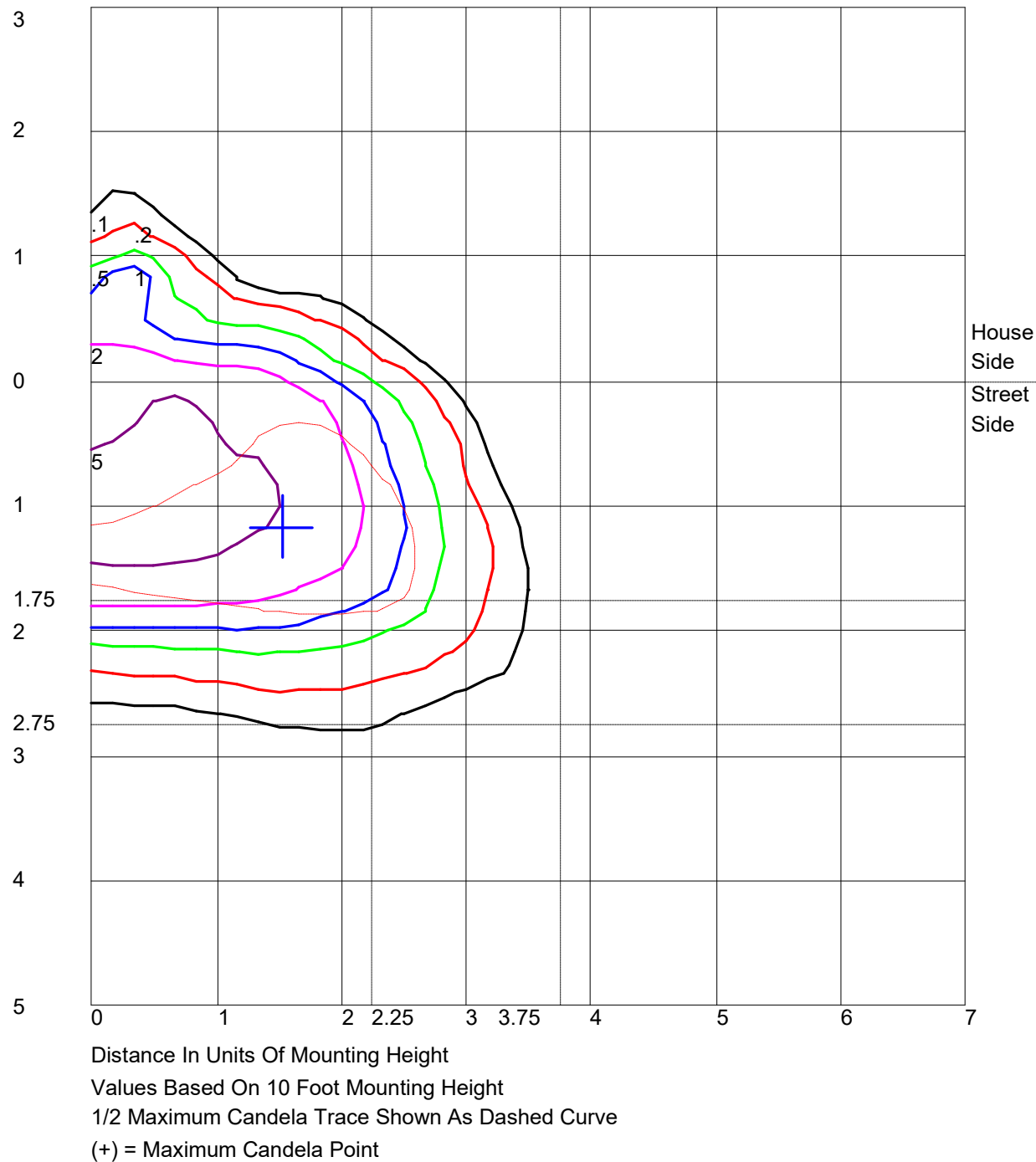
	Lumens	Percent Of Luminaire
Downward Street Side	3947.1	89.8
Downward House Side	447.7	10.2
Downward Total	4394.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	4394.8	100.0

POLAR GRAPH

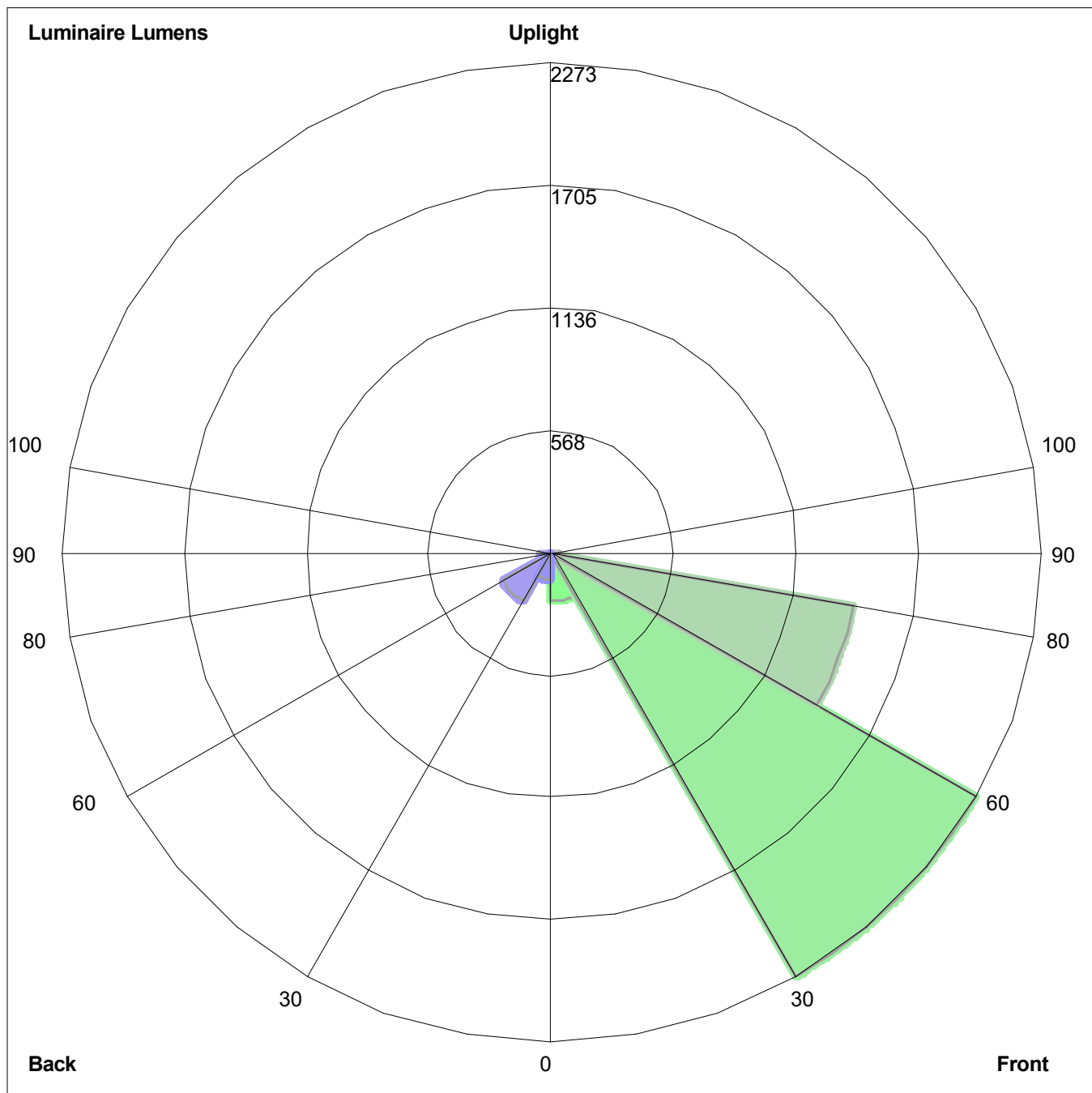


Maximum Candela = 4726 Located At Horizontal Angle = 52.5, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=225.3, Medium= 2273.0, High=1420.4, Very High=28.3
Back: Low=125.5, Medium=261.9, High=57.2, Very High=3.1
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1