



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-10L-50-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_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[LUMCAT] ENM4-SAX-3-LED-10L-50-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	10077
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	78
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10838
Maximum Candela Angle	52.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	10838
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	504 (5.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	516.7	N.A.	5.1
FM - Front-Medium (30-60)	5212.0	N.A.	51.7
FH - Front-High (60-80)	3257.0	N.A.	32.3
FVH - Front-Very High (80-90)	64.9	N.A.	0.6
BL - Back-Low (0-30)	287.8	N.A.	2.9
BM - Back-Medium (30-60)	600.5	N.A.	6.0
BH - Back-High (60-80)	131.1	N.A.	1.3
BVH - Back-Very High (80-90)	6.8	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	10076.8	N.A.	100.0
BUG Rating	B1-U0-G2		

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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	923	923	923	923	923	923	923	923	923	923
2.5	910	912	912	915	911	913	912	916	919	919
5.0	898	898	901	904	906	908	908	912	916	919
7.5	873	876	881	885	895	903	905	910	917	920
10.0	855	858	864	873	883	894	903	908	921	925
12.5	852	855	860	873	884	900	909	915	932	937
15.0	869	870	879	897	916	929	940	944	955	957
17.5	920	925	933	952	978	987	997	1001	1001	994
20.0	1020	1027	1032	1050	1073	1088	1094	1095	1085	1064
22.5	1175	1183	1196	1200	1222	1249	1246	1245	1225	1190
25.0	1372	1390	1400	1415	1444	1475	1469	1464	1435	1365
27.5	1626	1642	1661	1681	1722	1772	1776	1748	1705	1580
30.0	1891	1908	1942	1974	2051	2104	2105	2093	2003	1819
32.5	2159	2155	2206	2271	2387	2454	2452	2436	2305	2068
35.0	2429	2432	2482	2588	2718	2809	2807	2776	2621	2308
37.5	2746	2759	2814	2933	3053	3159	3158	3113	2910	2515
40.0	3142	3162	3209	3317	3409	3520	3502	3438	3159	2686
42.5	3618	3639	3693	3786	3867	3888	3847	3761	3377	2852
45.0	4237	4261	4302	4382	4393	4301	4191	4073	3589	3022
47.5	5008	5078	5194	5179	5104	4889	4594	4437	3835	3268
50.0	5730	5834	5976	6062	5947	5577	5137	4937	4192	3775
52.5	6287	6345	6771	7166	7080	6453	5906	5641	4895	4504
55.0	6612	6711	7187	7901	8063	7566	7063	6803	5961	5344
57.5	6035	6119	6958	8095	8813	8653	8493	8340	7465	5829
60.0	4574	4711	5677	7328	8961	9640	10011	9961	8284	6087
62.5	2630	2774	3695	5459	8060	9998	10838	10796	8701	6202
65.0	1081	1176	1721	3234	6041	9207	10669	10796	8774	5754
67.5	590	618	825	1509	3920	7114	9479	9896	7981	4497
70.0	363	383	477	852	1987	4540	7185	7889	5988	3086
72.5	252	262	331	573	1146	2343	4175	4801	3782	1348
75.0	171	178	234	450	828	1173	1858	2304	1626	528
77.5	121	125	170	358	668	698	758	888	789	283
80.0	92	98	131	277	504	439	365	371	392	176
82.5	71	77	107	224	333	264	191	188	199	130
85.0	54	56	84	172	214	135	103	103	106	88
87.5	35	37	58	108	81	47	40	38	38	40
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	923	923	923	923	923	923	923	923	923	923
2.5	923	928	929	929	934	938	936	936	933	933
5.0	928	931	937	937	948	958	959	960	962	962
7.5	932	934	942	947	962	974	975	970	968	963
10.0	934	941	949	959	975	983	965	925	881	842
12.5	939	942	955	968	980	960	880	781	700	635
15.0	950	952	962	974	970	873	726	613	542	501
17.5	978	968	975	981	925	747	585	513	465	436
20.0	1030	1009	1001	988	843	627	509	459	426	397
22.5	1122	1083	1047	987	745	561	466	428	411	372
25.0	1245	1168	1108	962	660	521	435	411	421	387
27.5	1383	1266	1172	912	607	490	414	404	463	449

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CANDELA TABULATION - (Cont.)

30.0	1532	1374	1235	854	566	467	395	414	538	542
32.5	1687	1478	1291	802	520	450	384	429	624	624
35.0	1833	1570	1335	762	482	438	369	433	718	700
37.5	1951	1641	1367	719	448	420	354	423	813	821
40.0	2049	1701	1391	677	418	393	335	401	905	843
42.5	2164	1770	1412	651	394	367	314	364	942	615
45.0	2320	1898	1477	658	372	341	286	324	769	426
47.5	2659	2129	1598	688	351	310	250	275	425	314
50.0	3114	2439	1731	714	319	254	202	228	234	246
52.5	3645	2754	1861	735	267	177	139	160	153	205
55.0	3996	2922	1891	716	196	118	99	105	107	169
57.5	4204	2962	1818	639	144	94	79	75	81	138
60.0	4346	2879	1589	535	123	83	65	58	64	114
62.5	4198	2507	1158	408	111	76	56	46	52	99
65.0	3546	2009	810	290	99	64	47	37	43	83
67.5	2582	1444	511	185	79	50	37	29	31	70
70.0	1352	742	275	114	57	37	25	21	22	56
72.5	504	320	160	81	41	25	17	15	14	41
75.0	247	186	122	67	30	17	10	8	7	27
77.5	141	123	99	60	22	13	6	6	4	17
80.0	105	93	84	51	17	8	5	4	3	10
82.5	77	69	68	40	10	6	5	4	3	6
85.0	49	45	48	24	6	5	5	4	2	4
87.5	22	19	24	10	4	4	4	3	2	2
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

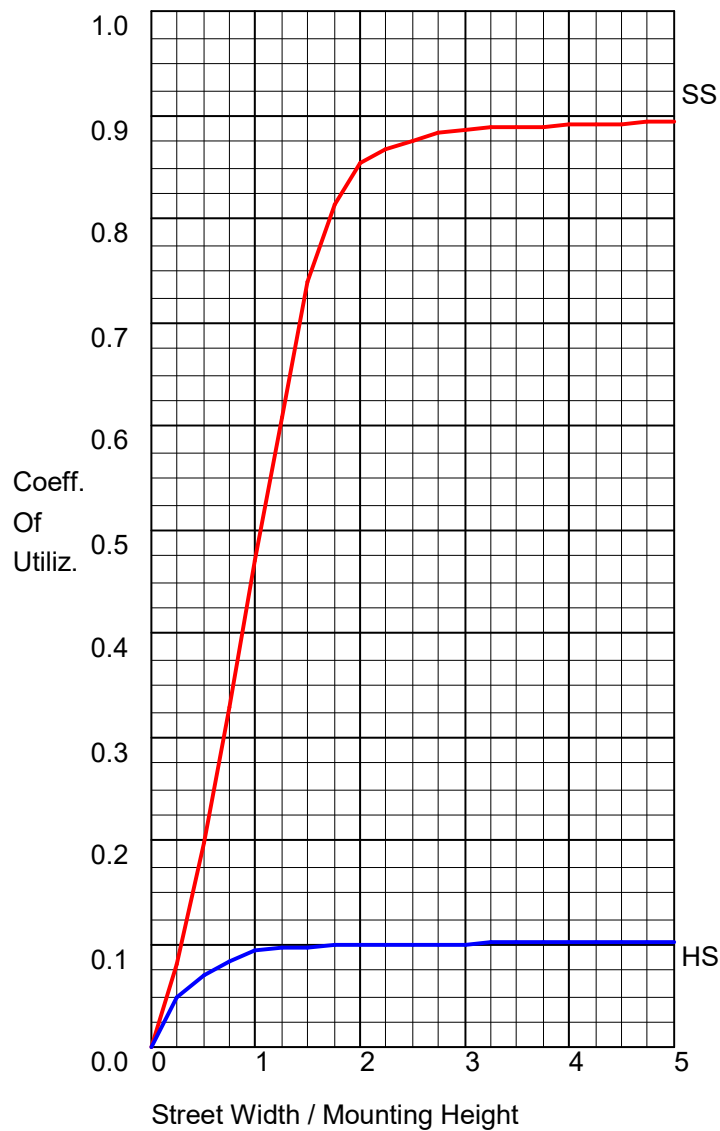
	<u>175.0</u>	<u>180.0</u>
0.0	923	923
2.5	929	934
5.0	954	960
7.5	950	946
10.0	815	800
12.5	605	597
15.0	481	478
17.5	419	417
20.0	378	376
22.5	349	345
25.0	349	343
27.5	380	367
30.0	434	409
32.5	460	432
35.0	501	470
37.5	501	449
40.0	385	337
42.5	274	243
45.0	210	190
47.5	174	153
50.0	155	129
52.5	144	111
55.0	138	103
57.5	139	106
60.0	144	117
62.5	149	129
65.0	149	139

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CANDELA TABULATION - (Cont.)

67.5	142	135
70.0	124	120
72.5	99	98
75.0	70	72
77.5	49	54
80.0	35	38
82.5	24	26
85.0	15	16
87.5	7	8
90.0	0	0

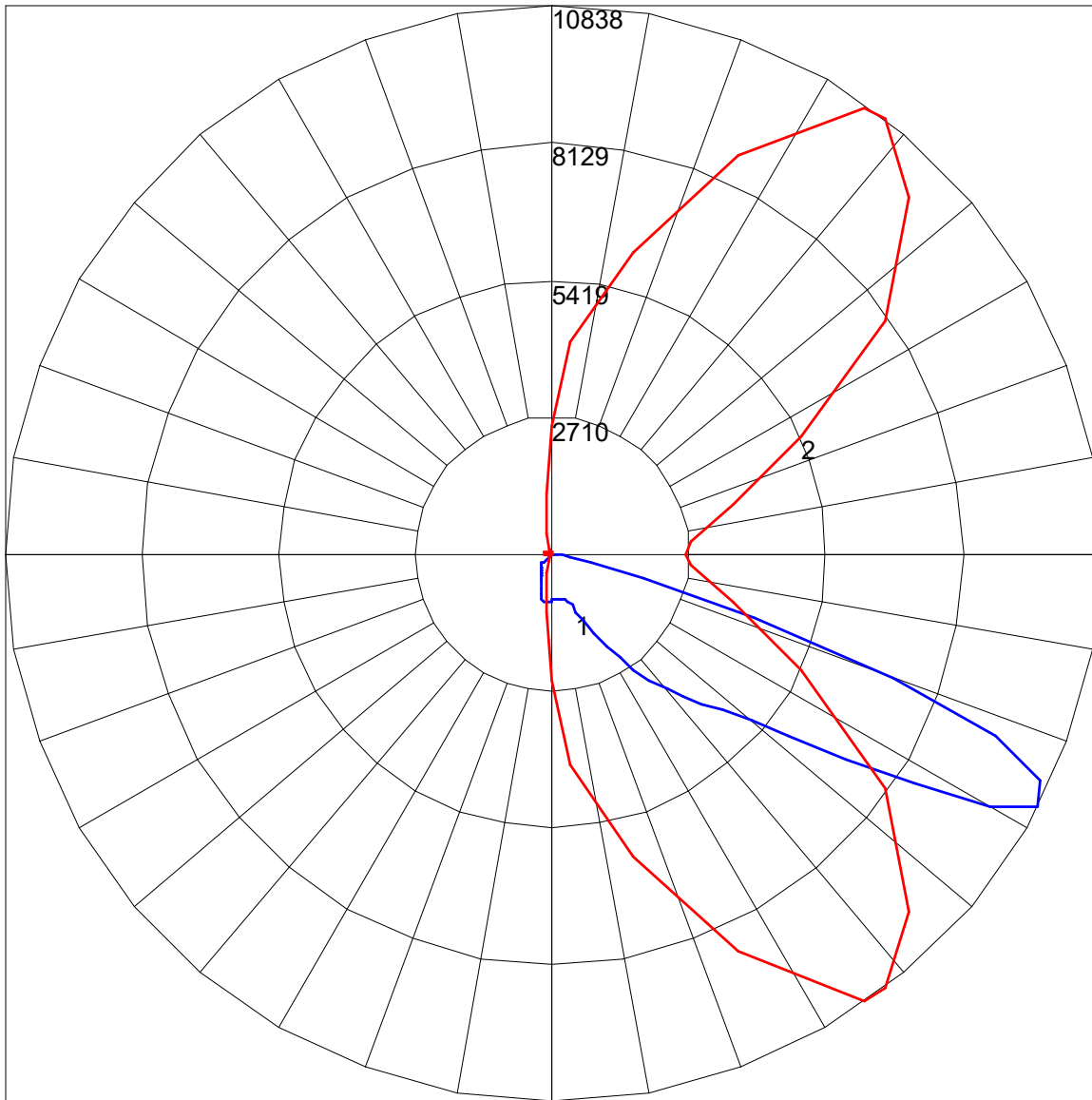
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

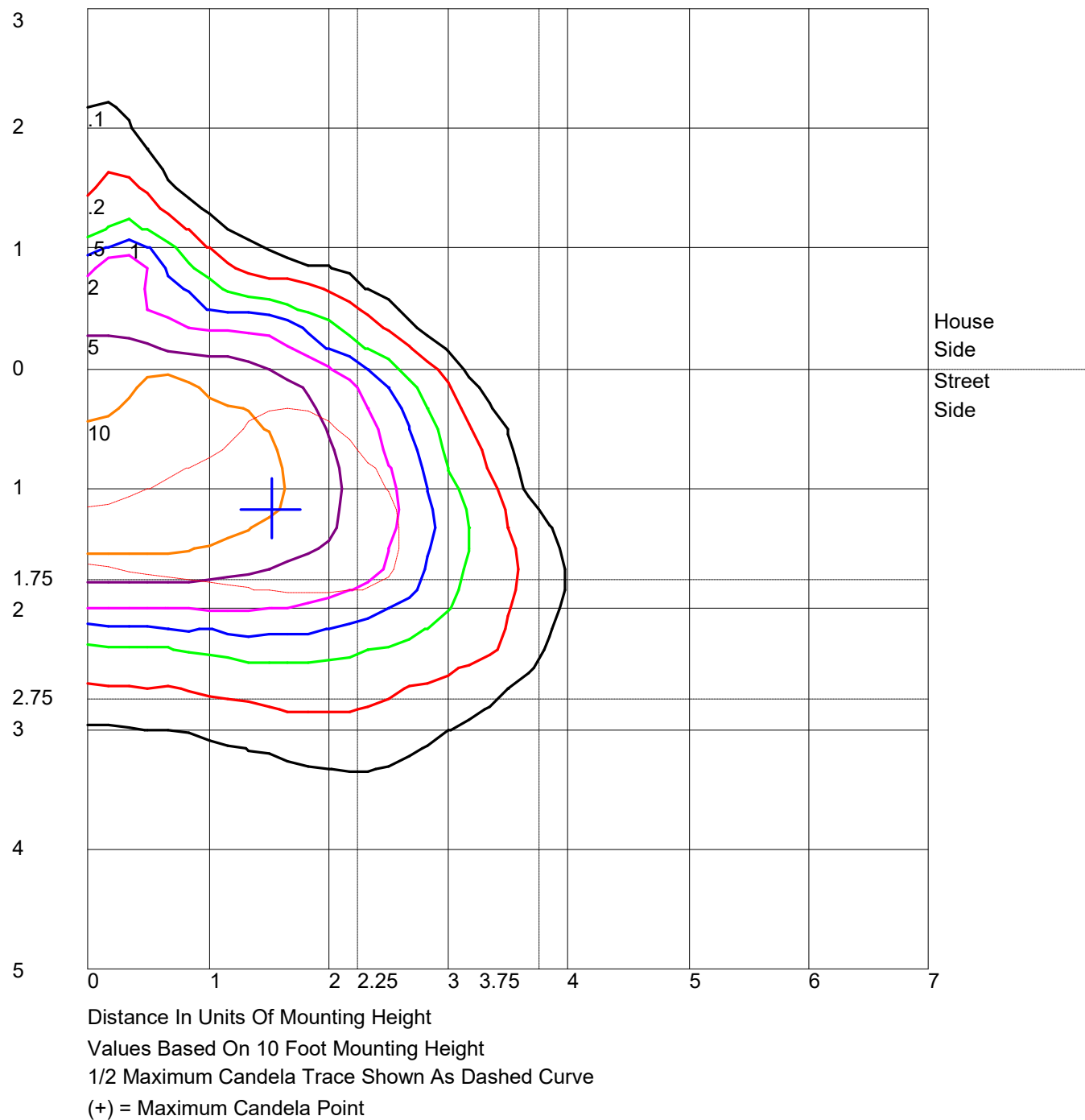
	Lumens	Percent Of Luminaire
Downward Street Side	9050.6	89.8
Downward House Side	1026.2	10.2
Downward Total	10076.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	10076.8	100.0

POLAR GRAPH

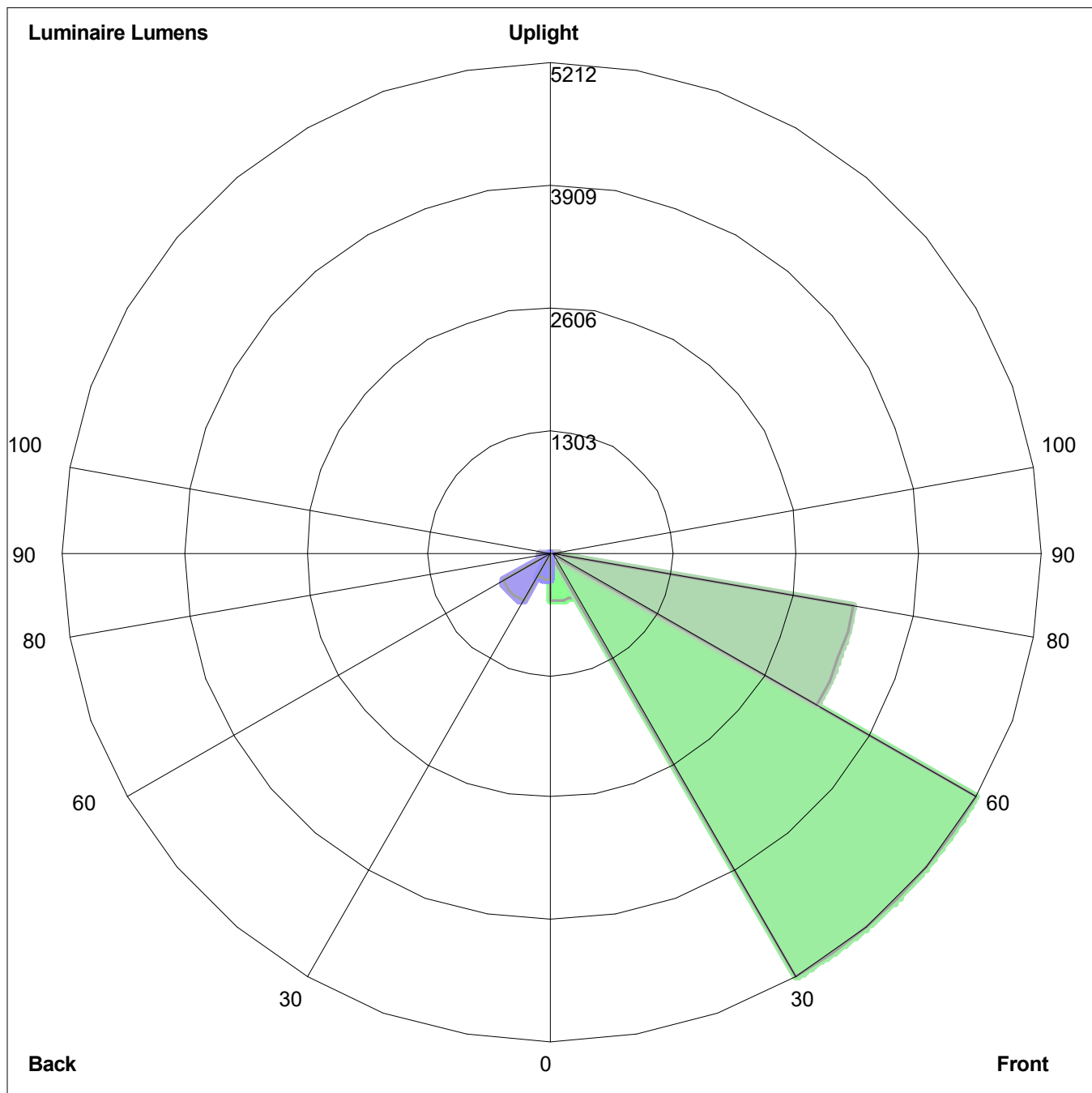


Maximum Candela = 10838 Located At Horizontal Angle = 52.5, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=516.7, Medium= 5212.0, High= 3257.0, Very High=64.9
Back: Low=287.8, Medium=600.5, High=131.1, Very High=6.8
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G2