



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-05L-40-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

[MANUFAC] 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-05L-40-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	4807
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5170
Maximum Candela Angle	52.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	5170
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	241 (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)	246.5	N.A.	5.1
FM - Front-Medium (30-60)	2486.3	N.A.	51.7
FH - Front-High (60-80)	1553.8	N.A.	32.3
FVH - Front-Very High (80-90)	31.0	N.A.	0.6
BL - Back-Low (0-30)	137.3	N.A.	2.9
BM - Back-Medium (30-60)	286.5	N.A.	6.0
BH - Back-High (60-80)	62.6	N.A.	1.3
BVH - Back-Very High (80-90)	3.3	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	4807.3	N.A.	100.0
BUG Rating	B1-U0-G1		

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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	440	440	440	440	440	440	440	440	440	440
2.5	434	435	435	436	435	436	435	437	438	438
5.0	428	428	430	431	432	433	433	435	437	438
7.5	416	418	420	422	427	431	432	434	437	439
10.0	408	409	412	416	421	426	431	433	439	441
12.5	406	408	410	416	422	429	434	436	445	447
15.0	415	415	419	428	437	443	448	450	456	456
17.5	439	441	445	455	466	471	476	477	477	474
20.0	486	490	493	501	512	519	522	522	517	507
22.5	560	564	571	573	583	596	595	594	584	568
25.0	654	663	668	675	688	704	701	698	685	651
27.5	776	783	793	802	822	846	847	834	814	754
30.0	902	910	927	942	978	1004	1004	998	956	867
32.5	1030	1028	1052	1084	1138	1171	1170	1162	1100	987
35.0	1159	1160	1184	1235	1297	1340	1339	1324	1250	1101
37.5	1310	1316	1342	1399	1456	1507	1507	1485	1388	1200
40.0	1499	1508	1531	1582	1626	1679	1671	1640	1507	1281
42.5	1726	1736	1762	1806	1845	1855	1835	1794	1611	1360
45.0	2021	2033	2052	2090	2096	2052	1999	1943	1712	1441
47.5	2389	2422	2478	2470	2435	2332	2192	2117	1829	1559
50.0	2734	2783	2851	2891	2837	2660	2451	2355	2000	1800
52.5	2999	3027	3230	3419	3377	3078	2817	2691	2335	2149
55.0	3154	3201	3429	3769	3846	3609	3370	3245	2843	2550
57.5	2879	2919	3319	3862	4204	4128	4052	3979	3562	2781
60.0	2182	2247	2708	3496	4274	4599	4776	4752	3952	2904
62.5	1255	1323	1762	2604	3845	4769	5170	5150	4151	2959
65.0	516	561	821	1543	2882	4392	5089	5150	4185	2745
67.5	282	295	394	720	1870	3394	4522	4721	3807	2145
70.0	174	183	227	406	948	2166	3427	3763	2857	1472
72.5	120	125	158	274	546	1117	1992	2290	1804	643
75.0	82	85	112	215	395	560	887	1099	776	252
77.5	58	60	81	171	318	333	362	424	376	135
80.0	44	47	63	132	241	209	174	177	187	84
82.5	34	36	51	106	159	126	91	90	95	62
85.0	25	27	40	82	102	65	49	49	51	42
87.5	17	18	28	52	39	23	19	18	18	19
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	440	440	440	440	440	440	440	440	440	440
2.5	440	443	443	443	446	448	446	446	445	445
5.0	443	444	447	447	452	457	457	458	459	459
7.5	445	446	450	452	459	465	465	463	462	459
10.0	446	449	453	457	465	469	460	441	420	402
12.5	448	450	456	462	467	458	420	372	334	303
15.0	453	455	459	465	463	416	346	292	259	239
17.5	466	462	465	468	441	356	279	245	222	208
20.0	492	482	477	471	402	299	243	219	203	189
22.5	535	516	499	471	356	267	222	204	196	178
25.0	594	557	528	459	315	248	208	196	201	185
27.5	659	604	559	435	290	234	197	193	221	215

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CANDELA TABULATION - (Cont.)

30.0	731	655	589	407	270	223	188	197	257	258
32.5	805	705	616	383	248	215	183	205	297	297
35.0	874	749	637	364	230	209	176	206	343	334
37.5	931	783	652	343	214	200	169	202	388	392
40.0	977	811	664	323	199	187	160	191	432	402
42.5	1033	844	674	310	188	175	150	174	449	294
45.0	1107	905	705	314	177	163	136	155	367	203
47.5	1268	1016	762	328	167	148	119	131	203	150
50.0	1486	1164	826	341	152	121	96	109	112	117
52.5	1738	1314	888	351	127	85	66	76	73	97
55.0	1906	1394	902	342	94	56	47	50	51	81
57.5	2005	1413	867	305	69	45	37	35	38	66
60.0	2073	1374	758	256	59	40	31	27	30	55
62.5	2003	1196	552	195	53	36	27	22	25	47
65.0	1692	958	386	138	47	31	23	18	21	40
67.5	1232	688	244	88	38	24	17	14	15	33
70.0	645	354	131	55	27	18	12	10	10	27
72.5	240	153	76	38	19	12	8	7	6	19
75.0	118	89	58	32	14	8	5	4	3	13
77.5	67	58	47	29	11	6	3	3	2	8
80.0	50	44	40	25	8	4	3	2	2	5
82.5	36	33	32	19	5	3	2	2	1	3
85.0	23	22	23	12	3	3	2	2	1	2
87.5	11	9	11	5	2	2	2	2	1	1
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

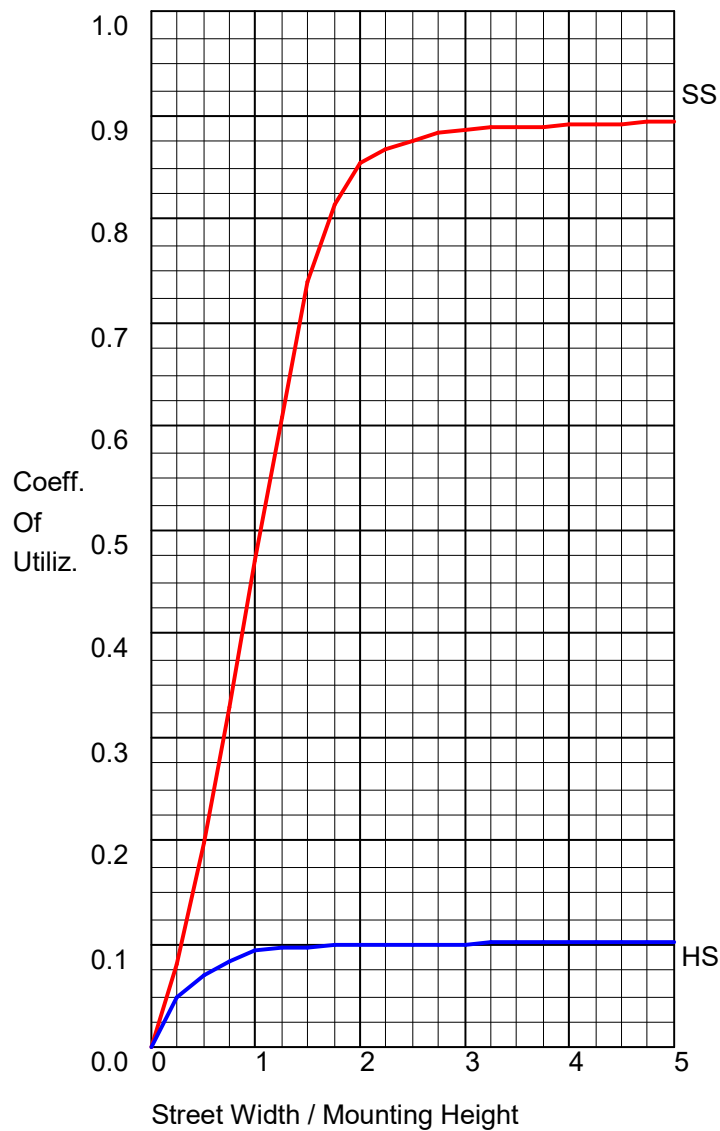
	<u>175.0</u>	<u>180.0</u>
0.0	440	440
2.5	443	446
5.0	455	458
7.5	453	451
10.0	389	381
12.5	288	285
15.0	229	228
17.5	200	199
20.0	180	179
22.5	166	165
25.0	166	164
27.5	181	176
30.0	207	195
32.5	219	206
35.0	239	224
37.5	239	214
40.0	184	161
42.5	131	116
45.0	100	91
47.5	83	73
50.0	74	62
52.5	69	53
55.0	66	49
57.5	66	51
60.0	69	56
62.5	71	62
65.0	71	66

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CANDELA TABULATION - (Cont.)

67.5	68	65
70.0	59	57
72.5	47	47
75.0	34	35
77.5	23	26
80.0	17	18
82.5	11	12
85.0	7	8
87.5	4	4
90.0	0	0

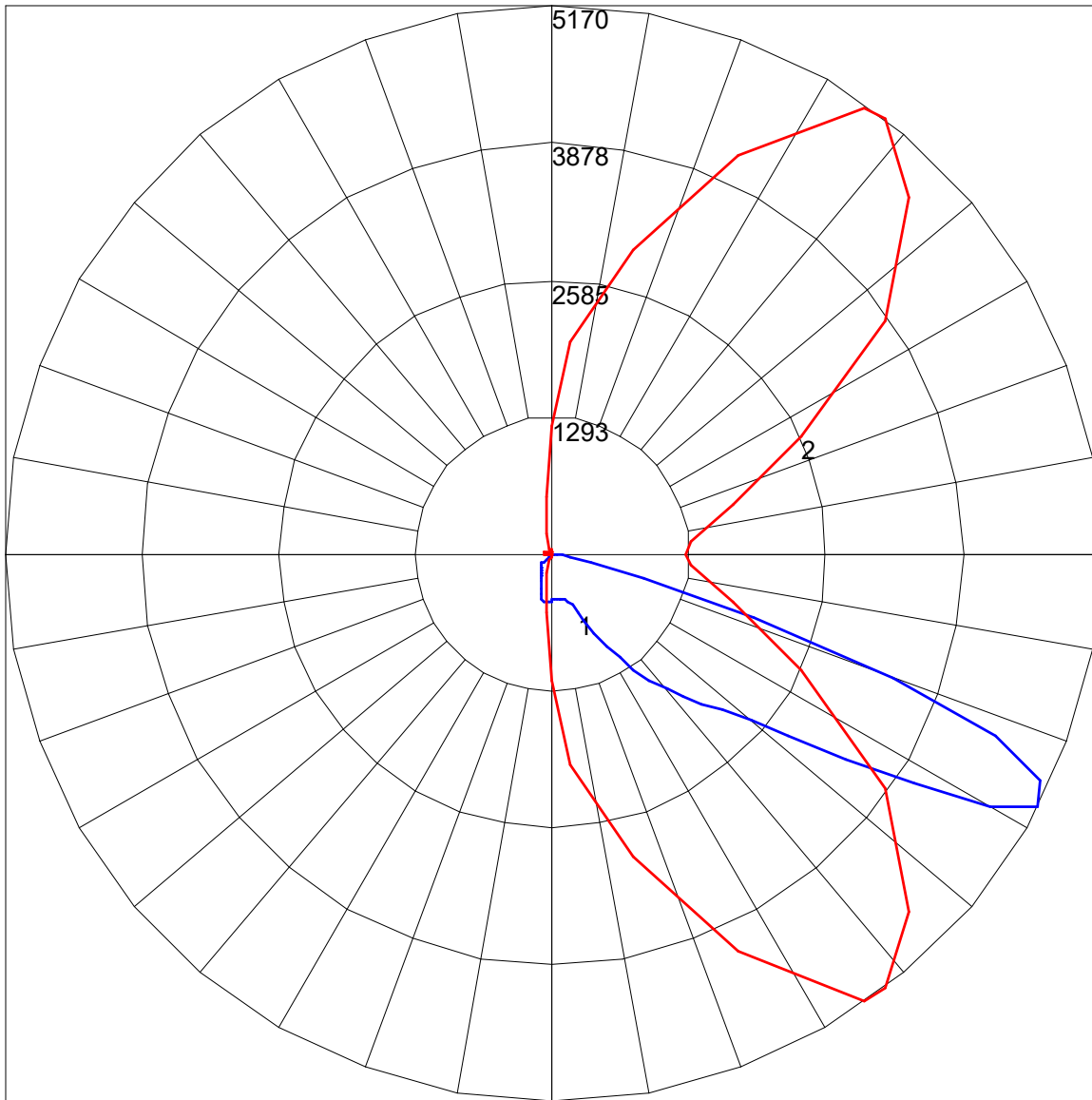
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

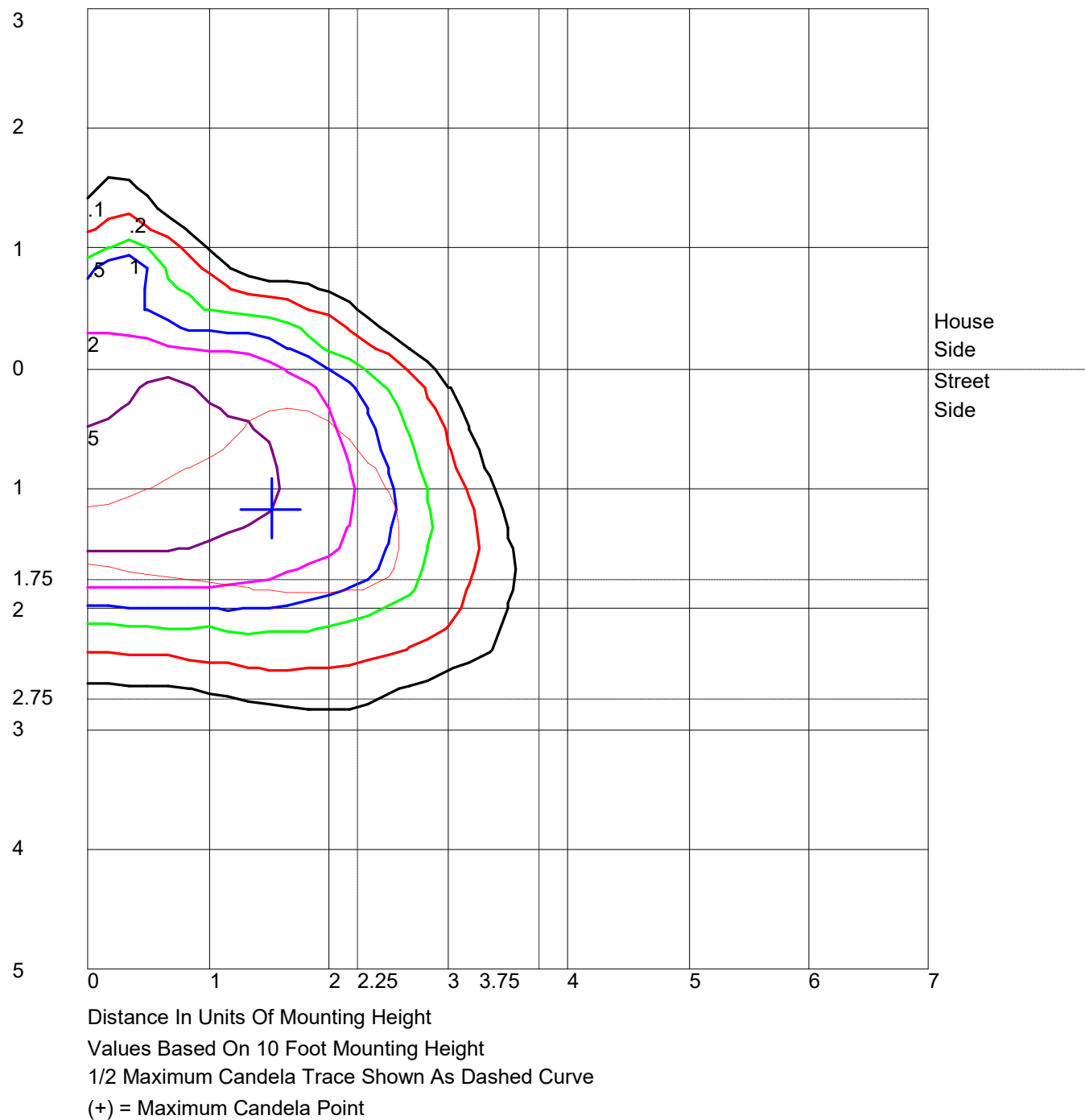
	Lumens	Percent Of Luminaire
Downward Street Side	4317.5	89.8
Downward House Side	489.6	10.2
Downward Total	4807.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	4807.1	100.0

POLAR GRAPH

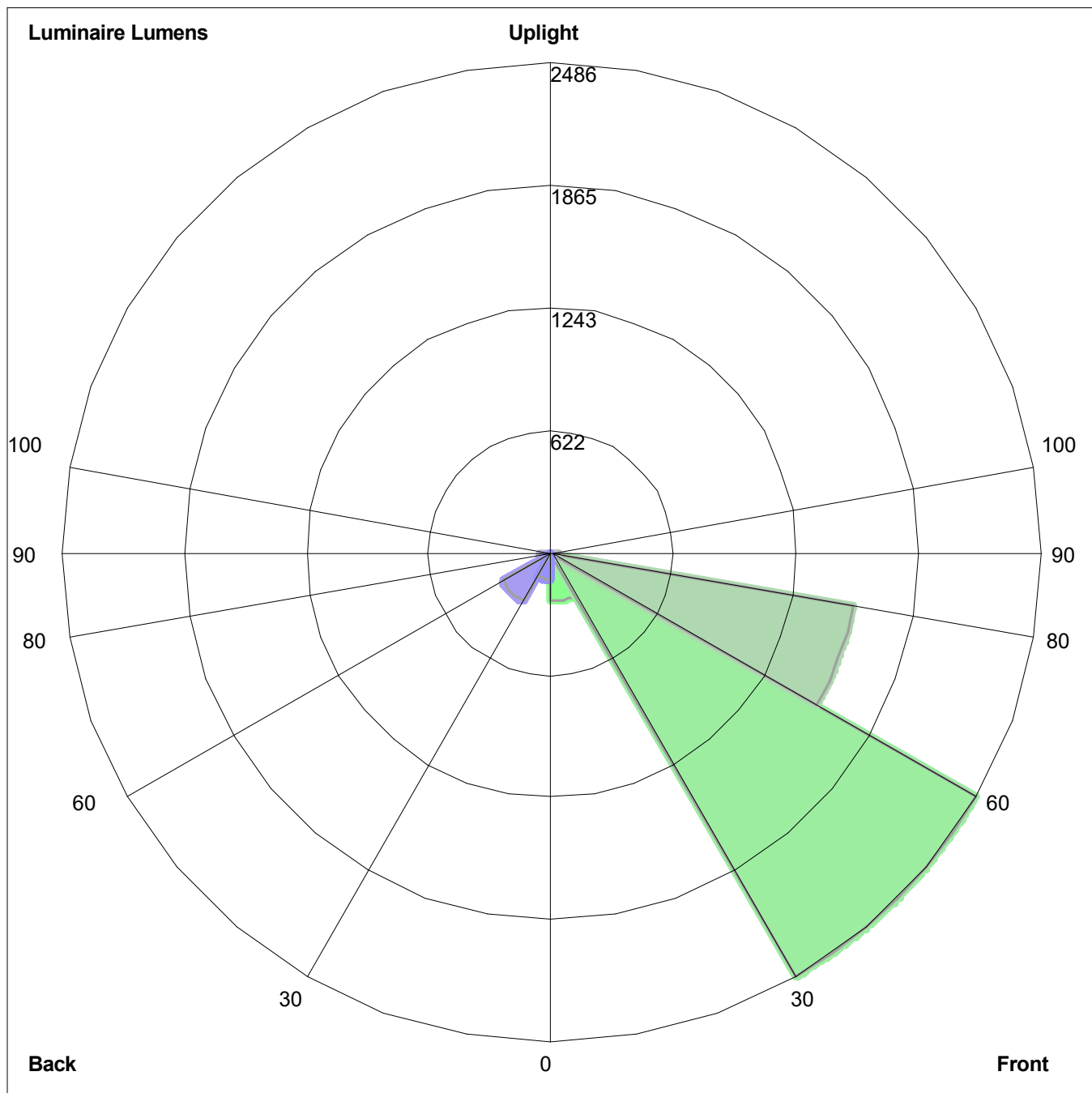


Maximum Candela = 5170 Located At Horizontal Angle = 52.5, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=246.5, Medium=2486.3, High=1553.8, Very High=31.0
Back: Low=137.3, Medium=286.5, High=62.6, Very High=3.3
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1