



## IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-05L-40-IL.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11786

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/30/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-SAX-5W-LED-05L-40-IL

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[SEARCH\_SOURCETYPE] LED

[SEARCH\_APPLICATION] Outdoor

[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	3378
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2418
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	2418
Maximum Candela Angle (<90 Degrees Vertical)	45H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	110 (3.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	211.7	N.A.	6.3
FM - Front-Medium (30-60)	1272.0	N.A.	37.7
FH - Front-High (60-80)	1058.4	N.A.	31.3
FVH - Front-Very High (80-90)	11.4	N.A.	0.3
BL - Back-Low (0-30)	209.3	N.A.	6.2
BM - Back-Medium (30-60)	465.6	N.A.	13.8
BH - Back-High (60-80)	148.5	N.A.	4.4
BVH - Back-Very High (80-90)	0.9	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	3377.8	N.A.	100.0
BUG Rating	B1-U0-G1		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>45.0</b></u>	<u><b>47.5</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	360	360	360	360	360	360	360	360	360	360
<b>2.5</b>	361	356	356	355	356	357	353	356	358	356
<b>5.0</b>	356	350	352	352	354	355	350	356	358	360
<b>7.5</b>	360	355	355	356	358	359	354	360	363	367
<b>10.0</b>	371	365	367	368	369	371	365	372	373	376
<b>12.5</b>	389	384	386	387	389	390	384	390	389	392
<b>15.0</b>	414	410	411	415	415	417	413	415	413	414
<b>17.5</b>	442	438	442	449	450	452	452	449	443	440
<b>20.0</b>	475	473	477	488	495	496	495	489	479	472
<b>22.5</b>	508	508	517	532	543	549	544	537	520	509
<b>25.0</b>	544	543	558	584	599	605	602	593	568	546
<b>27.5</b>	582	583	604	638	666	669	669	650	618	588
<b>30.0</b>	621	624	653	697	733	737	738	714	670	634
<b>32.5</b>	661	670	701	755	799	806	802	780	727	687
<b>35.0</b>	704	711	748	811	862	880	873	846	788	738
<b>37.5</b>	746	758	796	867	927	952	954	914	857	795
<b>40.0</b>	797	807	850	926	997	1023	1029	987	919	858
<b>42.5</b>	853	863	911	989	1066	1093	1100	1062	990	922
<b>45.0</b>	913	925	974	1051	1133	1166	1173	1133	1059	994
<b>47.5</b>	985	995	1043	1118	1210	1236	1251	1208	1136	1068
<b>50.0</b>	1051	1064	1117	1187	1286	1321	1334	1288	1208	1140
<b>52.5</b>	1121	1142	1190	1267	1364	1406	1415	1367	1289	1228
<b>55.0</b>	1201	1224	1271	1347	1455	1500	1507	1453	1388	1322
<b>57.5</b>	1285	1304	1356	1438	1568	1628	1640	1573	1488	1417
<b>60.0</b>	1350	1371	1447	1554	1723	1810	1837	1713	1576	1476
<b>62.5</b>	1389	1402	1486	1642	1910	2036	2049	1863	1650	1509
<b>65.0</b>	1296	1316	1443	1655	2019	2259	2236	1969	1691	1540
<b>67.5</b>	957	963	1179	1512	1998	2418	2403	2108	1732	1493
<b>70.0</b>	275	281	500	1039	1738	2403	2405	2071	1499	1144
<b>72.5</b>	79	80	109	233	992	1965	1967	1637	1048	708
<b>75.0</b>	35	36	41	74	213	904	1048	955	539	316
<b>77.5</b>	17	17	19	27	64	185	211	339	234	137
<b>80.0</b>	13	13	13	16	25	44	50	83	110	66
<b>82.5</b>	12	12	13	14	18	21	22	30	50	53
<b>85.0</b>	10	10	11	12	15	18	18	21	28	43
<b>87.5</b>	7	7	7	8	10	12	13	15	22	27
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>85.0</b></u>	<u><b>90.0</b></u>	<u><b>95.0</b></u>	<u><b>105.0</b></u>	<u><b>115.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>
<b>0.0</b>	360	360	360	360	360	360	360	360	360	360
<b>2.5</b>	358	360	361	360	362	363	364	365	368	368
<b>5.0</b>	362	364	368	369	371	375	377	379	380	383
<b>7.5</b>	370	374	377	381	385	390	393	395	397	398
<b>10.0</b>	382	387	390	397	403	409	411	413	415	414
<b>12.5</b>	398	404	409	418	427	433	433	436	434	433
<b>15.0</b>	419	425	432	441	453	460	460	461	457	454
<b>17.5</b>	443	450	457	472	485	491	494	492	483	474
<b>20.0</b>	474	478	487	503	518	530	532	524	509	493
<b>22.5</b>	506	511	522	542	561	574	574	564	537	507
<b>25.0</b>	541	549	557	579	604	619	617	596	538	474
<b>27.5</b>	579	586	593	622	650	667	662	599	478	380

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**CANDELA TABULATION - (Cont.)**

30.0	621	628	637	666	702	723	690	540	368	262
32.5	669	675	685	717	759	776	664	427	249	159
35.0	718	721	733	767	814	810	572	300	153	97
37.5	771	772	788	825	870	797	442	189	93	65
40.0	830	832	844	884	926	717	305	112	63	51
42.5	889	892	903	949	975	577	191	71	48	42
45.0	953	958	973	1018	980	420	110	52	39	35
47.5	1021	1029	1045	1092	924	274	68	40	33	29
50.0	1101	1104	1122	1169	798	163	47	33	27	22
52.5	1191	1202	1210	1248	614	94	35	26	20	16
55.0	1282	1289	1302	1311	425	57	28	20	14	10
57.5	1357	1368	1384	1313	285	37	22	14	8	4
60.0	1401	1406	1424	1198	205	28	16	8	4	1
62.5	1414	1418	1430	952	172	25	11	4	1	0
65.0	1431	1435	1438	643	163	36	6	1	0	0
67.5	1348	1344	1352	378	154	56	3	1	0	0
70.0	960	945	961	179	119	71	3	1	1	0
72.5	554	509	517	63	57	62	2	1	0	0
75.0	222	209	206	27	21	26	1	0	0	0
77.5	98	89	78	14	7	10	0	0	0	0
80.0	52	45	33	6	3	3	0	0	0	0
82.5	38	31	19	2	1	1	0	0	0	0
85.0	25	19	8	0	0	0	0	0	0	0
87.5	14	6	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

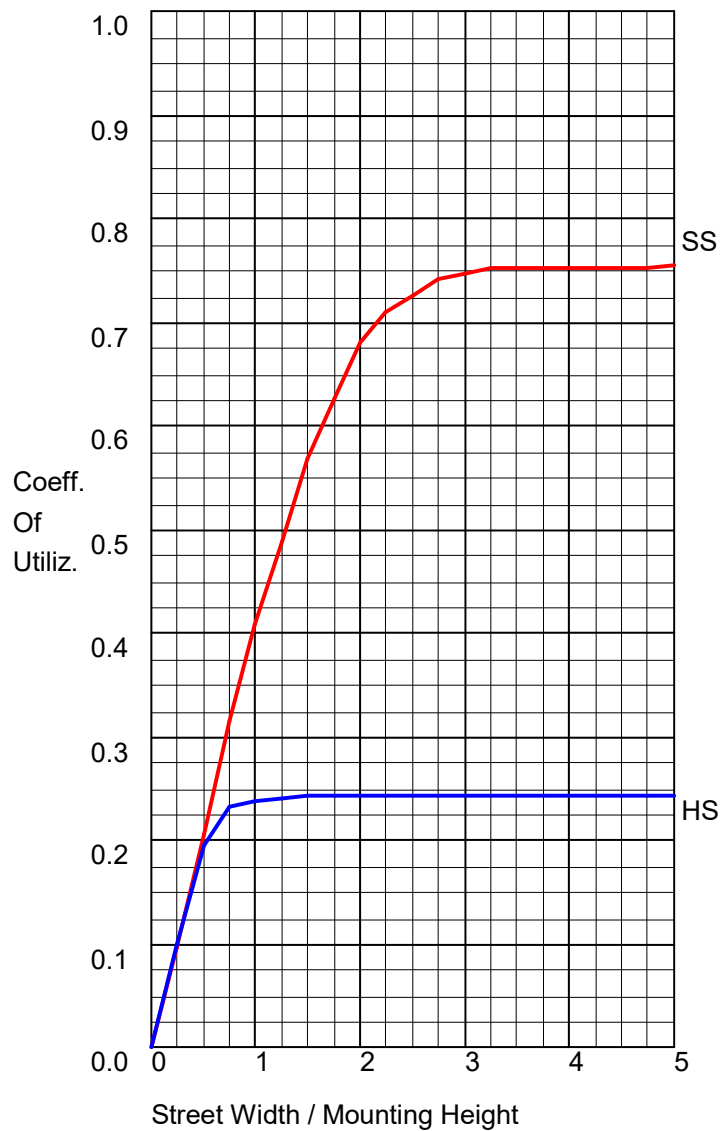
	<u>175.0</u>	<u>180.0</u>
0.0	360	360
2.5	368	368
5.0	383	382
7.5	397	398
10.0	413	417
12.5	431	432
15.0	451	449
17.5	469	469
20.0	484	485
22.5	484	482
25.0	433	428
27.5	326	320
30.0	212	206
32.5	129	125
35.0	79	79
37.5	58	58
40.0	46	46
42.5	39	39
45.0	33	32
47.5	27	26
50.0	20	20
52.5	13	13
55.0	8	7
57.5	3	3
60.0	0	0
62.5	0	0
65.0	0	0

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	0	0
<b>70.0</b>	0	0
<b>72.5</b>	0	0
<b>75.0</b>	0	0
<b>77.5</b>	0	0
<b>80.0</b>	0	0
<b>82.5</b>	0	0
<b>85.0</b>	0	0
<b>87.5</b>	0	0
<b>90.0</b>	0	0

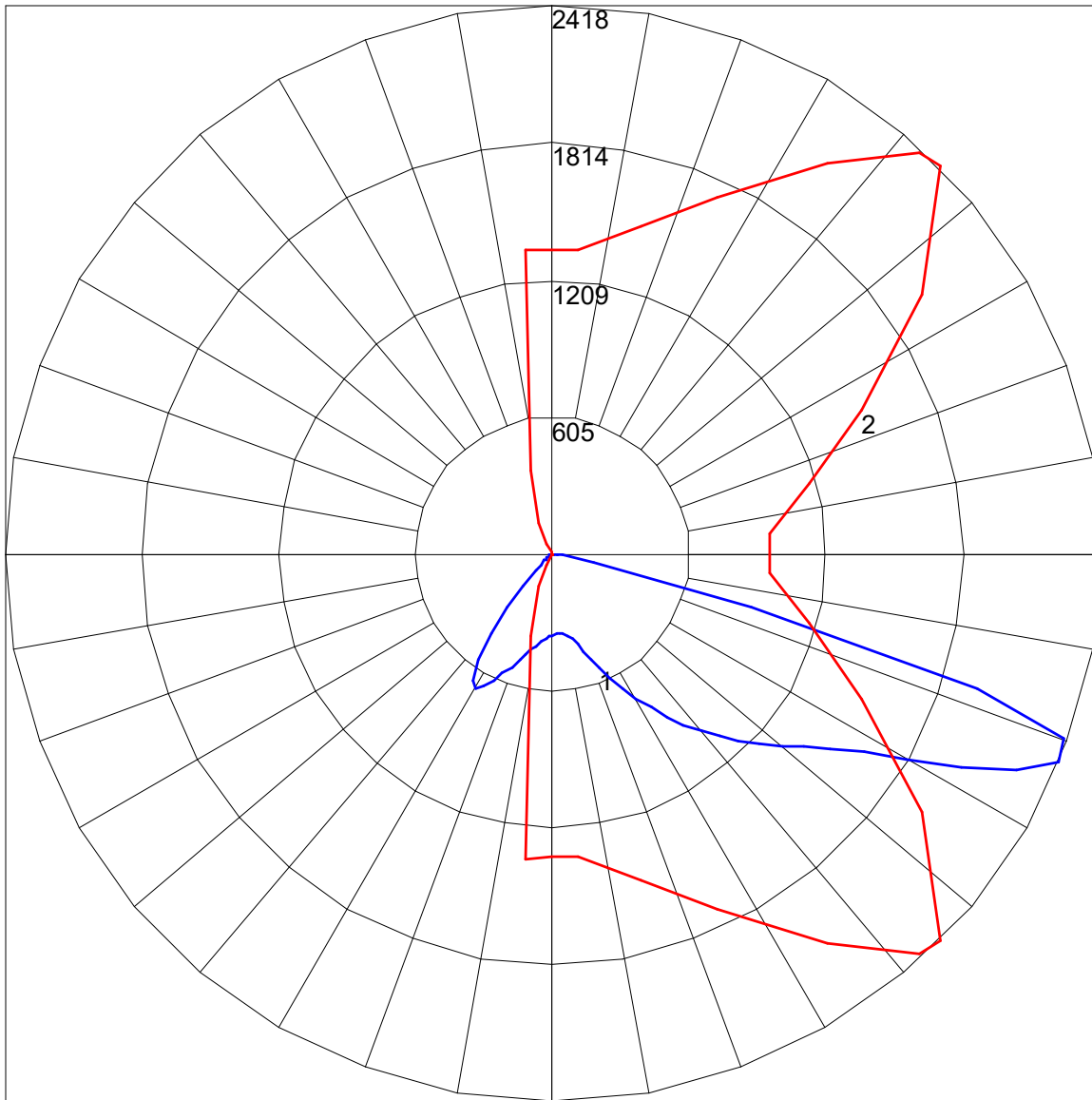
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

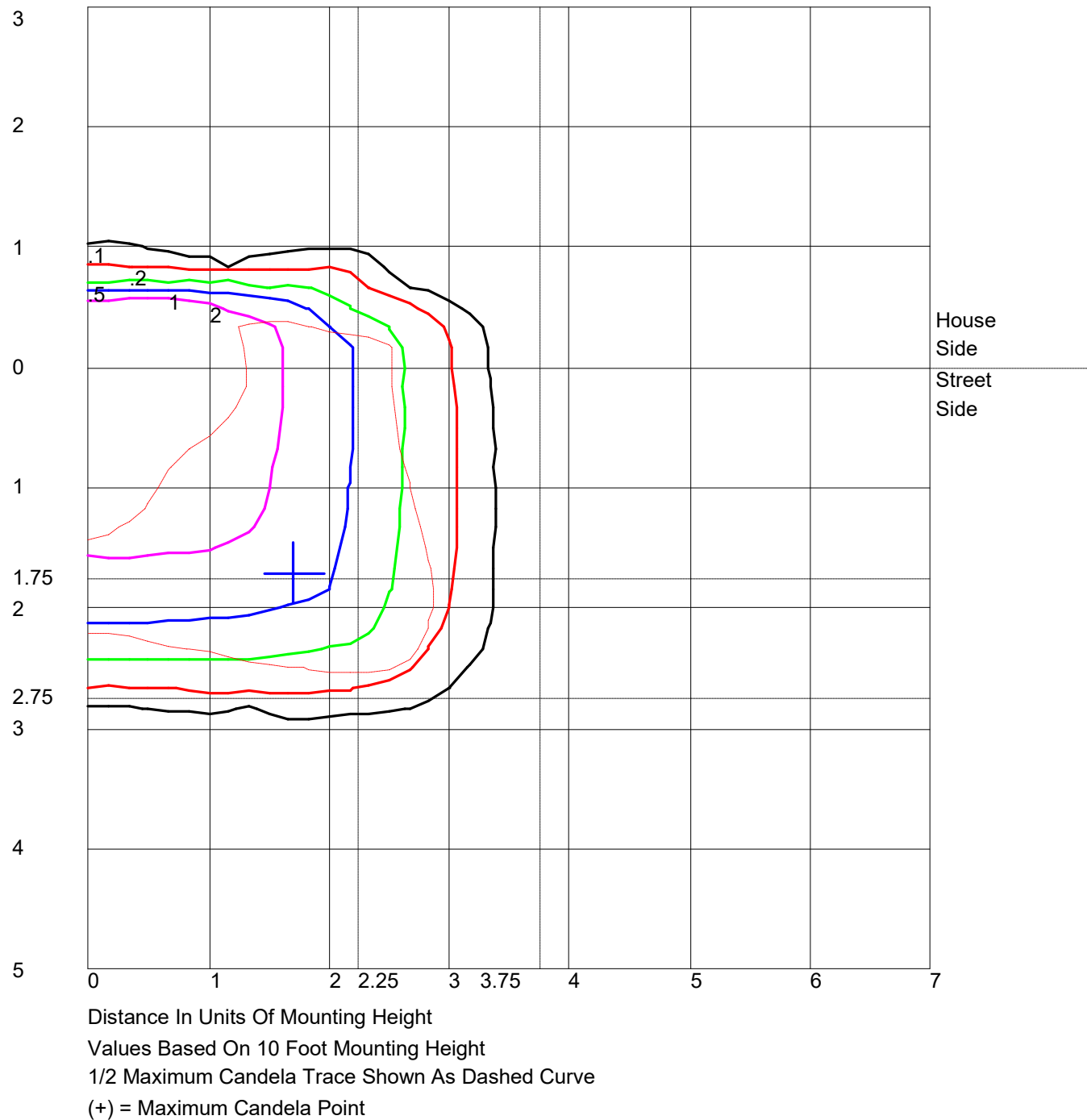
	Lumens	Percent Of Luminaire
Downward Street Side	2553.5	75.6
Downward House Side	824.4	24.4
Downward Total	3377.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3377.9	100.0

POLAR GRAPH



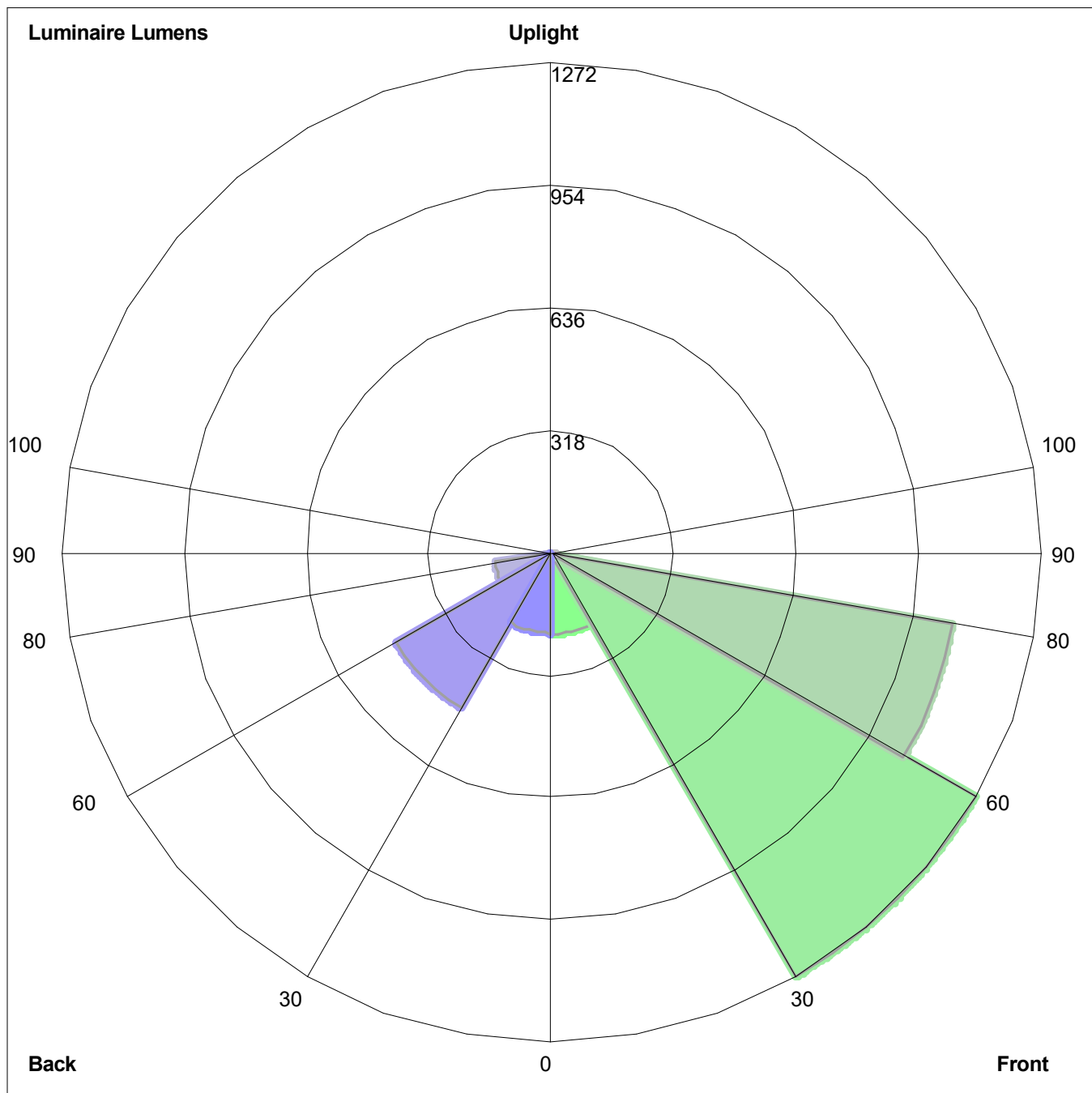
Maximum Candela = 2418 Located At Horizontal Angle = 45, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=211.7, Medium= 1272.0, High=1058.4, Very High=11.4  
Back: Low=209.3, Medium=465.6, High=148.5, Very High=0.9  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1