



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-05L-30-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-30-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	3088
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2211
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	2211
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	101 (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)	193.5	N.A.	6.3
FM - Front-Medium (30-60)	1162.9	N.A.	37.7
FH - Front-High (60-80)	967.6	N.A.	31.3
FVH - Front-Very High (80-90)	10.4	N.A.	0.3
BL - Back-Low (0-30)	191.4	N.A.	6.2
BM - Back-Medium (30-60)	425.7	N.A.	13.8
BH - Back-High (60-80)	135.8	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	3088.2	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>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	329	329	329	329	329	329	329	329	329	329
2.5	330	325	325	325	325	326	323	325	327	325
5.0	325	320	322	322	324	325	320	325	327	329
7.5	329	325	325	325	327	328	324	329	332	336
10.0	339	334	336	336	337	339	334	340	341	344
12.5	356	351	353	354	356	357	351	357	356	358
15.0	378	375	376	379	379	381	378	379	378	378
17.5	404	400	404	410	411	413	413	410	405	402
20.0	434	432	436	446	453	453	453	447	438	432
22.5	464	464	473	486	496	502	497	491	475	465
25.0	497	496	510	534	548	553	550	542	519	499
27.5	532	533	552	583	609	612	612	594	565	538
30.0	568	570	597	637	670	674	675	653	613	580
32.5	604	613	641	690	730	737	733	713	665	628
35.0	644	650	684	741	788	804	798	773	720	675
37.5	682	693	728	793	847	870	872	836	783	727
40.0	729	738	777	847	911	935	941	902	840	784
42.5	780	789	833	904	975	999	1006	971	905	843
45.0	835	846	890	961	1036	1066	1072	1036	968	909
47.5	900	910	954	1022	1106	1130	1144	1104	1039	976
50.0	961	973	1021	1085	1176	1208	1220	1177	1104	1042
52.5	1025	1044	1088	1158	1247	1285	1294	1250	1178	1123
55.0	1098	1119	1162	1231	1330	1371	1378	1328	1269	1209
57.5	1175	1192	1240	1315	1433	1488	1499	1438	1360	1295
60.0	1234	1253	1323	1421	1575	1655	1679	1566	1441	1349
62.5	1270	1282	1359	1501	1746	1861	1873	1703	1508	1380
65.0	1185	1203	1319	1513	1846	2065	2044	1800	1546	1408
67.5	875	880	1078	1382	1827	2211	2197	1927	1583	1365
70.0	251	257	457	950	1589	2197	2199	1893	1370	1046
72.5	72	73	100	213	907	1796	1798	1497	958	647
75.0	32	33	37	68	195	826	958	873	493	289
77.5	16	16	17	25	59	169	193	310	214	125
80.0	12	12	12	15	23	40	46	76	101	60
82.5	11	11	12	13	16	19	20	27	46	48
85.0	9	9	10	11	14	16	16	19	26	39
87.5	6	6	6	7	9	11	12	14	20	25
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	329	329	329	329	329	329	329	329	329	329
2.5	327	329	330	329	331	332	333	334	336	336
5.0	331	333	336	337	339	343	345	346	347	350
7.5	338	342	345	348	352	357	359	361	363	364
10.0	349	354	357	363	368	374	376	378	379	378
12.5	364	369	374	382	390	396	396	399	397	396
15.0	383	389	395	403	414	421	421	421	418	415
17.5	405	411	418	432	443	449	452	450	442	433
20.0	433	437	445	460	474	485	486	479	465	451
22.5	463	467	477	495	513	525	525	516	491	463
25.0	495	502	509	529	552	566	564	545	492	433
27.5	529	536	542	569	594	610	605	548	437	347

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CANDELA TABULATION - (Cont.)

30.0	568	574	582	609	642	661	631	494	336	240
32.5	612	617	626	655	694	709	607	390	228	145
35.0	656	659	670	701	744	741	523	274	140	89
37.5	705	706	720	754	795	729	404	173	85	59
40.0	759	761	772	808	847	655	279	102	58	47
42.5	813	815	826	868	891	527	175	65	44	38
45.0	871	876	890	931	896	384	101	48	36	32
47.5	933	941	955	998	845	250	62	37	30	27
50.0	1007	1009	1026	1069	730	149	43	30	25	20
52.5	1089	1099	1106	1141	561	86	32	24	18	15
55.0	1172	1178	1190	1199	389	52	26	18	13	9
57.5	1241	1251	1265	1200	261	34	20	13	7	4
60.0	1281	1285	1302	1095	187	26	15	7	4	1
62.5	1293	1296	1307	870	157	23	10	4	1	0
65.0	1308	1312	1315	588	149	33	5	1	0	0
67.5	1232	1229	1236	346	141	51	3	1	0	0
70.0	878	864	879	164	109	65	3	1	1	0
72.5	506	465	473	58	52	57	2	1	0	0
75.0	203	191	188	25	19	24	1	0	0	0
77.5	90	81	71	13	6	9	0	0	0	0
80.0	48	41	30	5	3	3	0	0	0	0
82.5	35	28	17	2	1	1	0	0	0	0
85.0	23	17	7	0	0	0	0	0	0	0
87.5	13	5	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

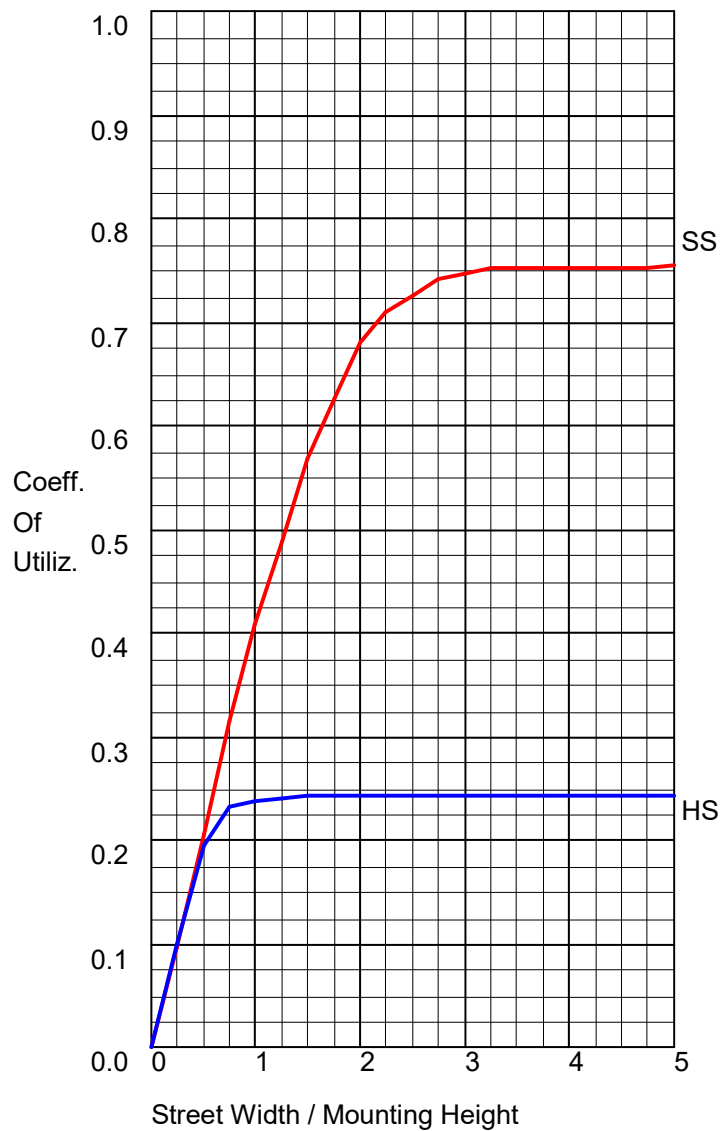
	<u>175.0</u>	<u>180.0</u>
0.0	329	329
2.5	336	336
5.0	350	349
7.5	363	364
10.0	378	381
12.5	394	395
15.0	412	410
17.5	429	429
20.0	442	443
22.5	442	441
25.0	396	391
27.5	298	293
30.0	194	188
32.5	118	114
35.0	72	72
37.5	53	53
40.0	42	42
42.5	36	36
45.0	30	29
47.5	25	24
50.0	18	18
52.5	12	12
55.0	7	6
57.5	3	3
60.0	0	0
62.5	0	0
65.0	0	0

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CANDELA TABULATION - (Cont.)

67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0

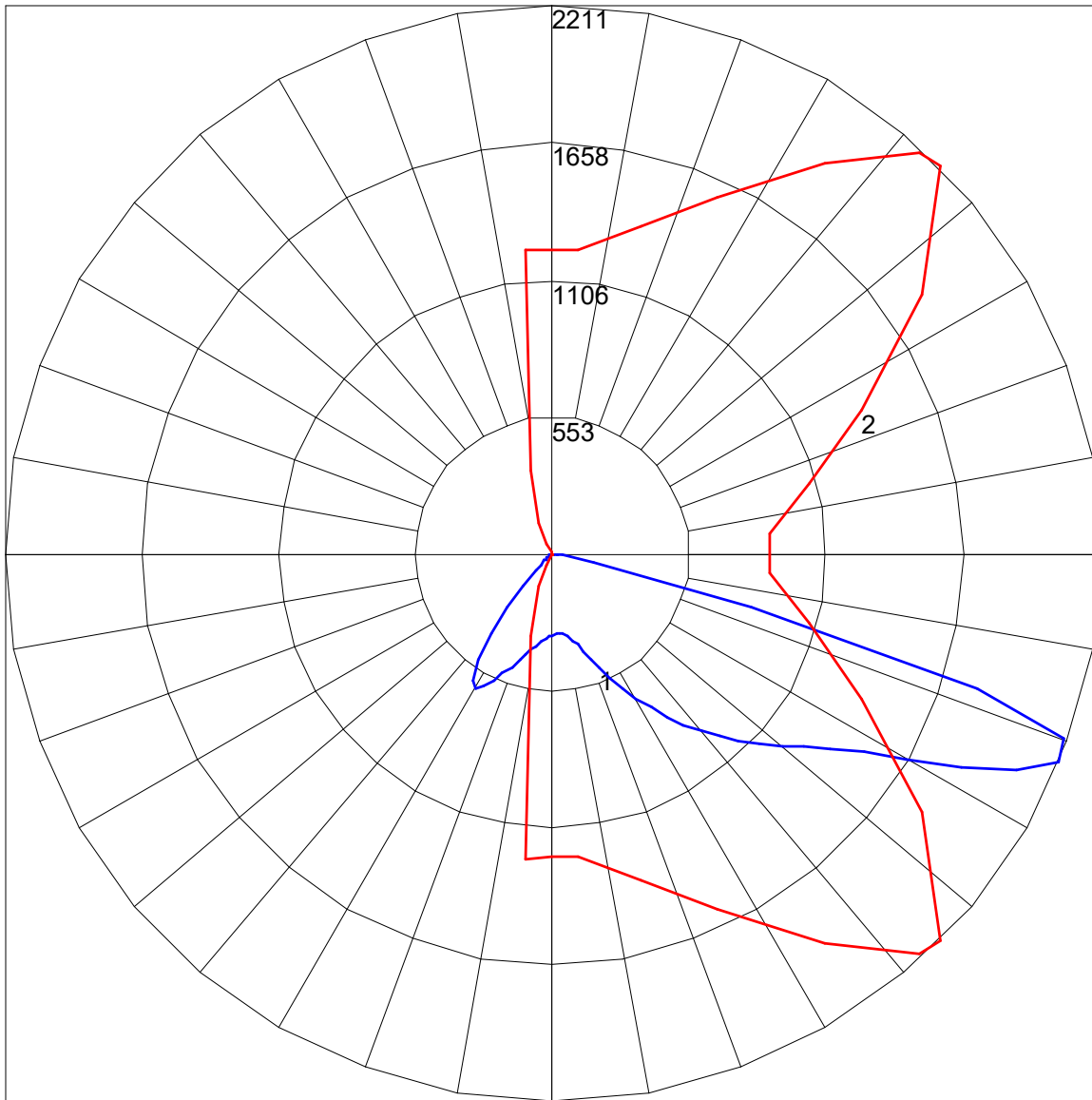
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

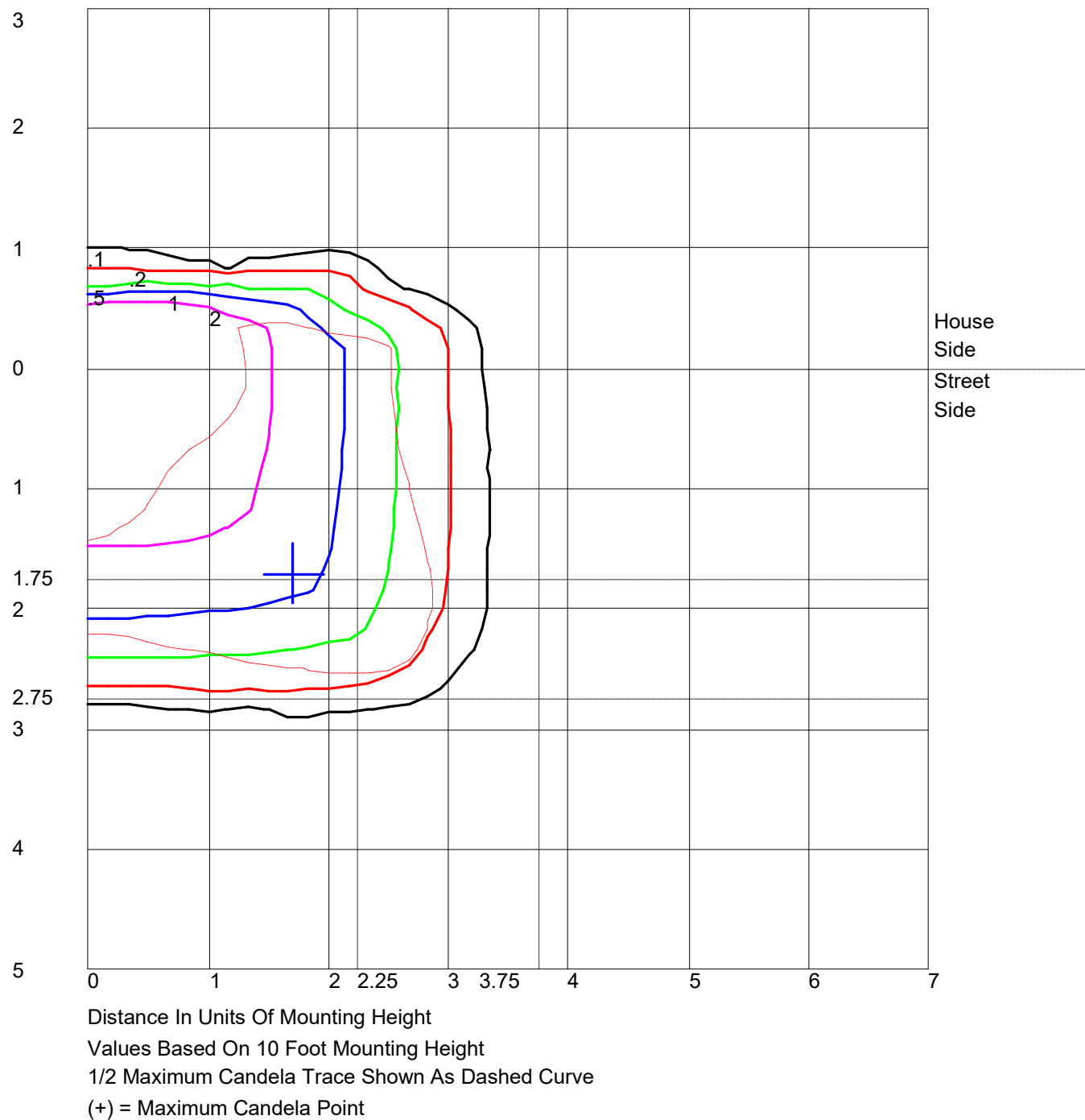
	Lumens	Percent Of Luminaire
Downward Street Side	2334.4	75.6
Downward House Side	753.7	24.4
Downward Total	3088.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3088.1	100.0

POLAR GRAPH

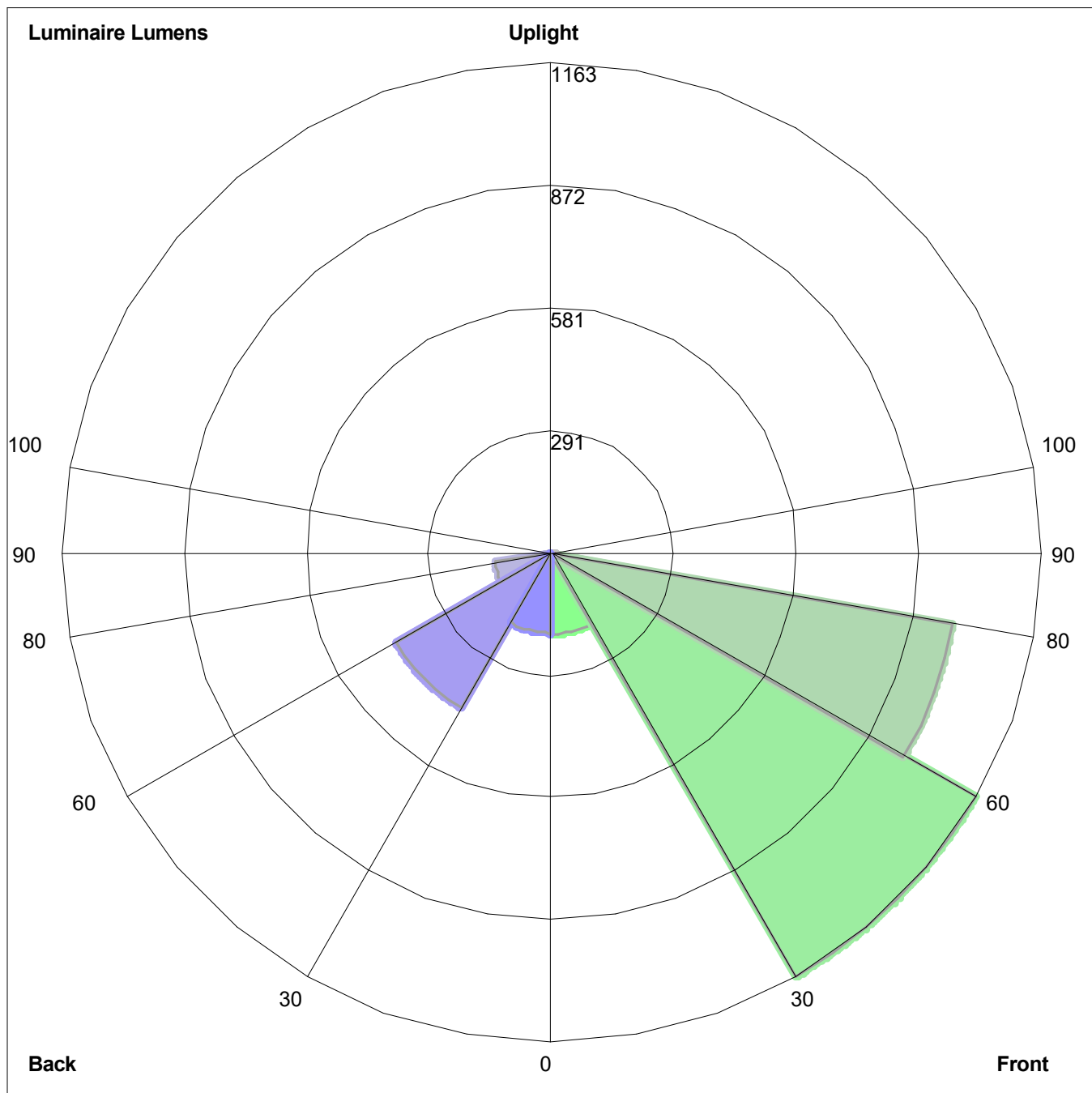


Maximum Candela = 2211 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=193.5, Medium=1162.9, High=967.6, Very High=10.4
Back: Low=191.4, Medium=425.7, High=135.8, Very High=0.9
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1