



IES ROAD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11788
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 04/30/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-FT-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	3898
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3033
Maximum Candela Angle	42.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	3033
Maximum Candela Angle (<90 Degrees Vertical)	42.5H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	386 (9.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	354.6	N.A.	9.1
FM - Front-Medium (30-60)	1611.0	N.A.	41.3
FH - Front-High (60-80)	1389.5	N.A.	35.6
FVH - Front-Very High (80-90)	43.6	N.A.	1.1
BL - Back-Low (0-30)	181.5	N.A.	4.7
BM - Back-Medium (30-60)	268.2	N.A.	6.9
BH - Back-High (60-80)	48.6	N.A.	1.2
BVH - Back-Very High (80-90)	1.0	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	3898.0	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>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	719	719	719	719	719	719	719	719	719	719
2.5	741	734	735	735	736	727	732	731	728	729
5.0	759	752	752	754	755	744	751	750	744	741
7.5	767	759	761	763	766	756	766	765	762	757
10.0	769	762	763	768	772	768	773	781	778	775
12.5	776	768	770	772	777	777	783	794	795	793
15.0	786	782	784	788	793	789	797	806	812	812
17.5	801	801	802	807	810	806	814	821	828	832
20.0	823	821	824	828	829	826	832	839	845	852
22.5	848	845	848	850	852	850	856	859	859	868
25.0	877	875	875	878	879	880	882	884	879	887
27.5	912	909	909	912	913	914	912	911	903	907
30.0	954	951	950	954	953	954	952	940	931	924
32.5	1001	999	1000	1001	996	999	998	978	962	943
35.0	1050	1052	1057	1056	1055	1058	1050	1030	996	967
37.5	1112	1111	1112	1113	1118	1124	1115	1092	1037	997
40.0	1169	1169	1174	1177	1187	1199	1190	1161	1089	1034
42.5	1231	1233	1238	1253	1271	1290	1277	1247	1162	1086
45.0	1302	1305	1315	1346	1366	1390	1386	1356	1252	1147
47.5	1385	1384	1404	1447	1481	1516	1504	1489	1358	1221
50.0	1474	1476	1506	1563	1623	1663	1647	1638	1477	1303
52.5	1566	1568	1614	1704	1779	1838	1823	1807	1614	1398
55.0	1667	1673	1734	1845	1959	2035	2037	1992	1763	1499
57.5	1770	1794	1863	2002	2160	2264	2241	2194	1921	1577
60.0	1880	1915	2003	2170	2365	2483	2455	2393	2046	1621
62.5	1932	1968	2113	2354	2562	2722	2692	2557	2121	1587
65.0	1777	1821	2044	2443	2792	2966	2935	2634	2074	1457
67.5	1444	1489	1764	2264	2805	3033	3032	2596	1890	1183
70.0	759	804	1155	1826	2434	2752	2855	2383	1505	853
72.5	300	320	483	965	1742	2215	2315	1891	1064	511
75.0	216	225	307	495	871	1300	1432	1299	644	328
77.5	169	177	252	376	535	656	689	728	420	225
80.0	135	140	209	297	357	381	386	328	256	152
82.5	97	104	157	206	182	154	150	117	123	92
85.0	42	47	62	70	65	60	59	45	47	52
87.5	15	16	21	27	23	18	16	13	13	16
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	719	719	719	719	719	719	719	719	719	719
2.5	723	724	722	717	717	712	709	707	701	698
5.0	731	730	724	715	709	698	687	679	675	668
7.5	743	741	731	716	698	682	665	646	628	613
10.0	762	754	743	719	689	661	620	573	534	506
12.5	782	771	758	723	678	616	542	472	414	374
15.0	801	789	773	725	654	547	440	354	301	275
17.5	822	808	793	724	613	466	340	278	243	224
20.0	844	831	807	721	558	378	282	234	208	196
22.5	865	850	824	708	492	316	245	208	187	177
25.0	880	867	839	680	422	279	221	190	176	170
27.5	896	882	852	645	368	256	206	180	171	168

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CANDELA TABULATION - (Cont.)

30.0	912	898	863	604	334	240	195	173	165	166
32.5	927	910	873	556	311	229	186	165	159	162
35.0	940	918	879	516	295	220	177	154	152	152
37.5	955	927	882	488	282	211	165	142	138	133
40.0	976	943	889	472	273	200	152	125	118	108
42.5	1006	963	896	465	262	184	133	106	93	82
45.0	1039	983	895	465	246	165	112	84	69	61
47.5	1083	1007	896	471	220	137	89	64	50	45
50.0	1135	1041	904	480	183	101	63	44	37	33
52.5	1190	1074	911	481	136	69	42	31	26	25
55.0	1234	1088	904	456	91	48	31	22	18	17
57.5	1259	1090	888	392	63	37	24	16	13	11
60.0	1248	1060	822	285	50	30	18	12	7	5
62.5	1172	961	687	173	42	24	15	8	4	3
65.0	1007	785	489	96	35	19	11	5	3	1
67.5	747	552	293	60	26	15	7	4	2	1
70.0	483	334	157	38	18	10	5	4	2	1
72.5	263	197	87	25	12	6	5	3	2	0
75.0	181	129	51	16	7	4	4	2	1	0
77.5	122	85	37	10	4	4	2	1	0	0
80.0	69	48	26	5	3	2	2	1	0	0
82.5	45	32	16	3	2	2	1	0	0	0
85.0	28	17	5	1	1	1	1	0	0	0
87.5	11	4	1	0	1	1	1	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

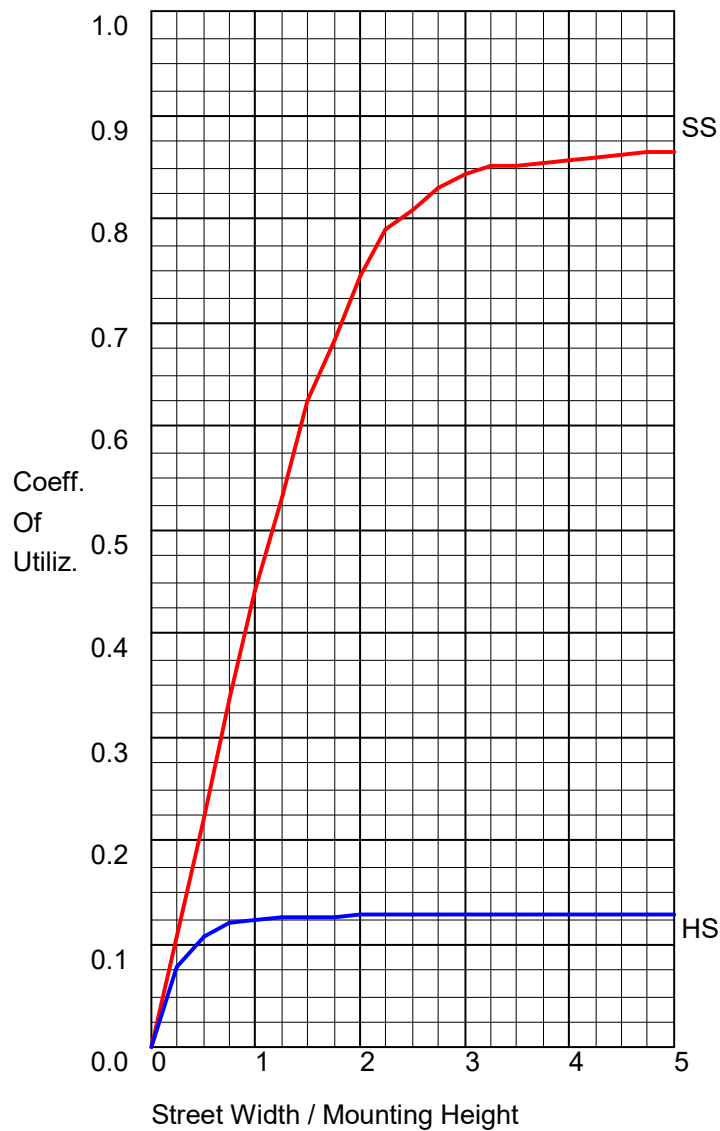
	<u>175.0</u>	<u>180.0</u>
0.0	719	719
2.5	698	694
5.0	664	659
7.5	605	599
10.0	485	486
12.5	348	348
15.0	261	261
17.5	215	215
20.0	189	188
22.5	173	173
25.0	168	169
27.5	166	167
30.0	165	165
32.5	160	160
35.0	145	143
37.5	123	121
40.0	96	96
42.5	74	72
45.0	54	52
47.5	41	41
50.0	32	32
52.5	25	25
55.0	17	17
57.5	10	10
60.0	5	5
62.5	2	2
65.0	1	1

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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

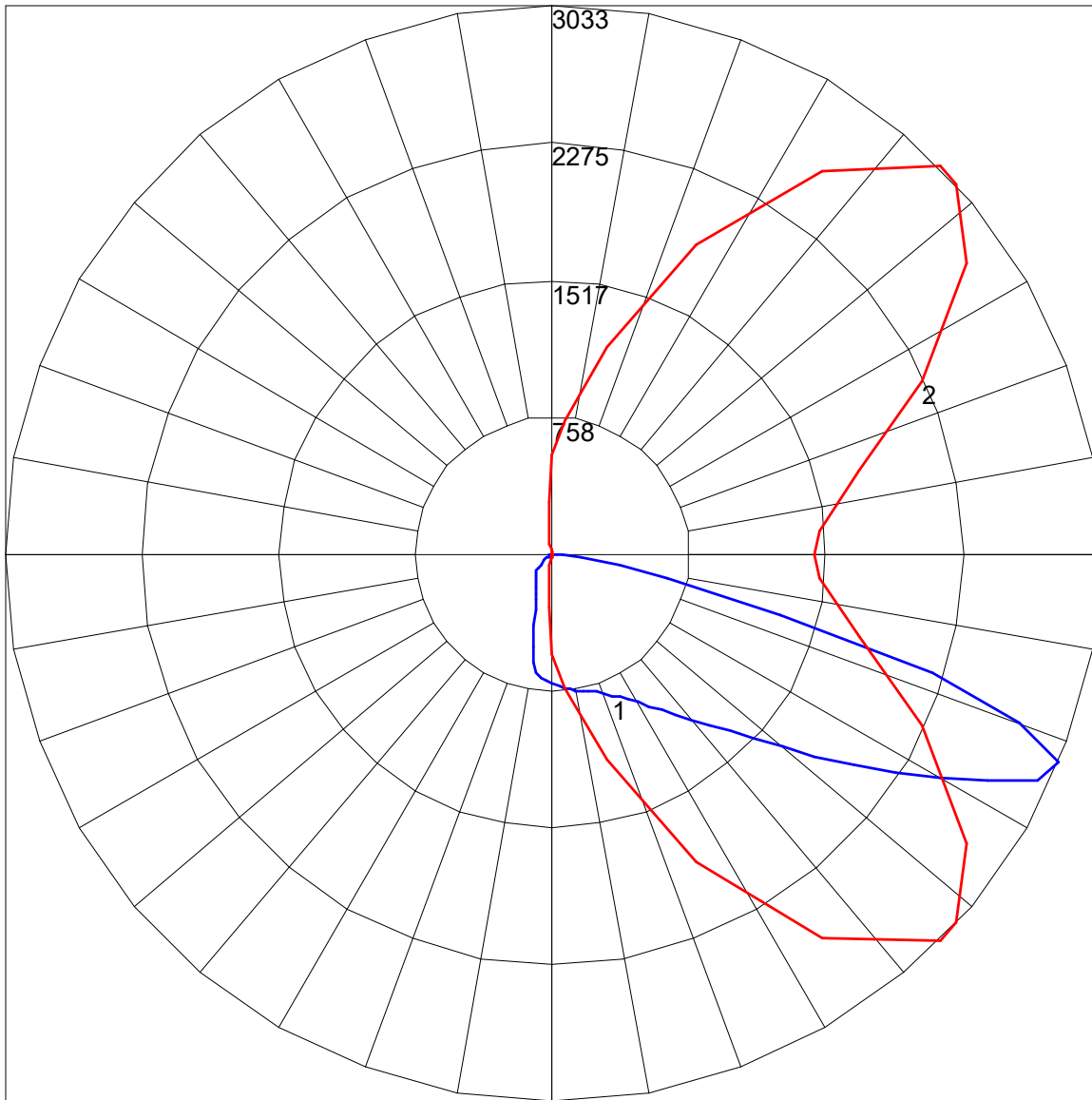
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

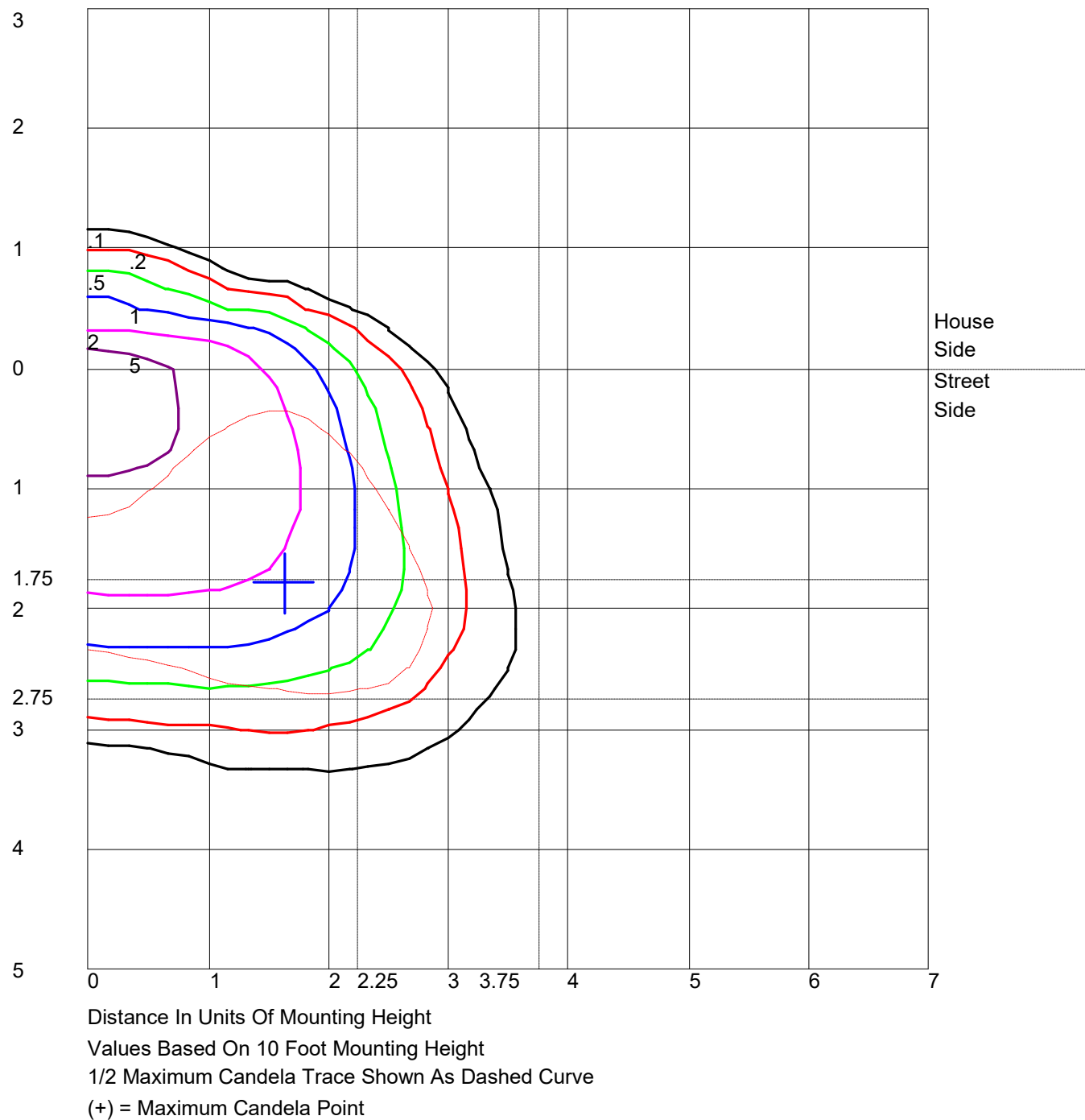
	Lumens	Percent Of Luminaire
Downward Street Side	3398.8	87.2
Downward House Side	499.3	12.8
Downward Total	3898.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3898.1	100.0

POLAR GRAPH

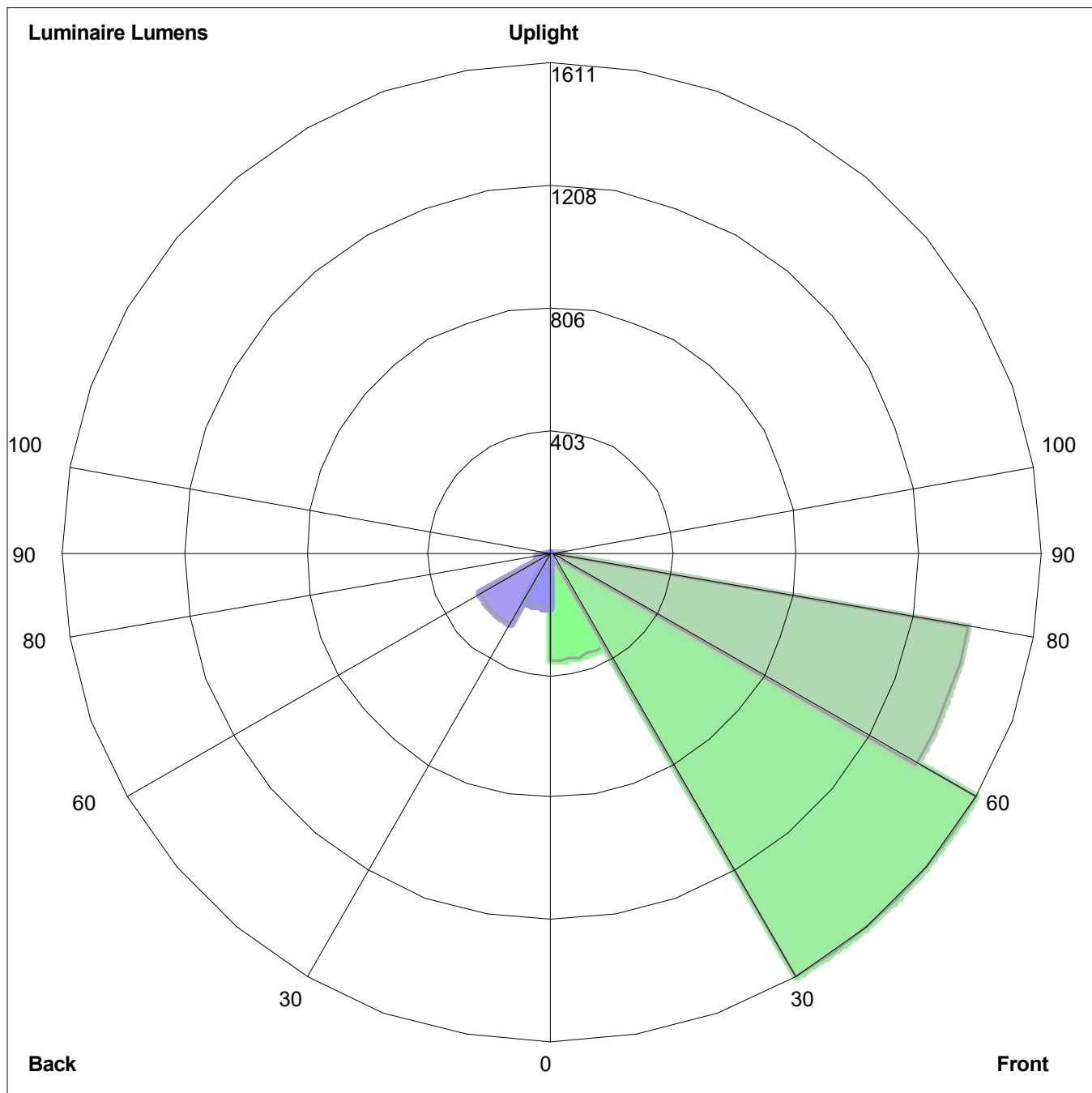


Maximum Candela = 3033 Located At Horizontal Angle = 42.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=354.6, Medium= 1611.0, High=1389.5, Very High=43.6
Back: Low=181.5, Medium=268.2, High=48.6, Very High=1.0
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1