



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-10L-50-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-10L-50-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	9036
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	78
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7031
Maximum Candela Angle	42.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	7031
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	894 (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)	822.0	N.A.	9.1
FM - Front-Medium (30-60)	3734.6	N.A.	41.3
FH - Front-High (60-80)	3221.2	N.A.	35.6
FVH - Front-Very High (80-90)	101.0	N.A.	1.1
BL - Back-Low (0-30)	420.9	N.A.	4.7
BM - Back-Medium (30-60)	621.7	N.A.	6.9
BH - Back-High (60-80)	112.5	N.A.	1.2
BVH - Back-Very High (80-90)	2.3	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	9036.2	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>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	1665	1665	1665	1665	1665	1665	1665	1665	1665	1665
2.5	1718	1702	1704	1703	1705	1685	1697	1695	1687	1688
5.0	1760	1744	1745	1748	1750	1726	1743	1738	1725	1718
7.5	1777	1758	1763	1769	1774	1753	1777	1773	1767	1753
10.0	1783	1767	1770	1780	1788	1780	1793	1809	1804	1797
12.5	1799	1779	1784	1791	1802	1802	1816	1840	1845	1837
15.0	1823	1812	1818	1826	1837	1829	1847	1869	1882	1881
17.5	1855	1855	1857	1871	1877	1869	1887	1904	1920	1929
20.0	1907	1904	1910	1919	1921	1915	1929	1945	1958	1975
22.5	1966	1959	1966	1970	1976	1971	1983	1993	1992	2012
25.0	2033	2029	2028	2034	2039	2040	2044	2049	2038	2056
27.5	2115	2105	2105	2115	2118	2119	2115	2110	2095	2102
30.0	2211	2204	2202	2209	2207	2210	2206	2179	2157	2143
32.5	2319	2317	2317	2320	2311	2316	2315	2268	2228	2185
35.0	2434	2439	2449	2448	2445	2453	2434	2388	2307	2242
37.5	2577	2576	2578	2580	2592	2605	2586	2533	2402	2311
40.0	2710	2711	2721	2731	2751	2781	2758	2691	2523	2396
42.5	2854	2858	2870	2906	2945	2990	2961	2890	2694	2518
45.0	3018	3025	3047	3120	3167	3222	3213	3144	2901	2661
47.5	3210	3209	3255	3355	3432	3513	3485	3452	3146	2830
50.0	3417	3420	3491	3625	3762	3856	3820	3798	3425	3020
52.5	3631	3634	3742	3951	4125	4260	4225	4189	3743	3240
55.0	3864	3878	4021	4278	4540	4718	4721	4618	4088	3477
57.5	4102	4157	4320	4641	5006	5248	5194	5086	4452	3656
60.0	4356	4440	4642	5032	5483	5756	5690	5548	4743	3757
62.5	4478	4563	4898	5457	5938	6309	6241	5926	4917	3678
65.0	4120	4222	4739	5663	6473	6874	6803	6107	4808	3377
67.5	3346	3452	4090	5248	6501	7031	7030	6019	4381	2742
70.0	1760	1863	2677	4231	5643	6379	6619	5525	3487	1978
72.5	696	742	1119	2239	4039	5136	5367	4385	2467	1184
75.0	500	521	712	1150	2020	3015	3319	3012	1493	761
77.5	393	412	586	870	1240	1521	1598	1687	972	521
80.0	313	324	486	689	827	883	894	760	594	353
82.5	225	240	363	477	421	359	348	271	283	213
85.0	97	109	144	164	151	139	135	103	108	121
87.5	35	37	49	62	52	41	37	29	30	39
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	1665	1665	1665	1665	1665	1665	1665	1665	1665	1665
2.5	1677	1677	1675	1661	1661	1652	1641	1639	1624	1620
5.0	1697	1693	1679	1658	1643	1620	1592	1576	1563	1549
7.5	1723	1717	1695	1658	1618	1581	1540	1498	1455	1421
10.0	1765	1749	1722	1666	1599	1532	1437	1329	1239	1173
12.5	1811	1787	1756	1676	1572	1429	1256	1093	960	866
15.0	1855	1828	1792	1680	1515	1266	1020	821	696	638
17.5	1906	1874	1836	1679	1420	1081	790	645	565	520
20.0	1956	1927	1872	1672	1294	878	652	542	484	453
22.5	2004	1970	1910	1640	1140	734	568	481	435	411
25.0	2040	2009	1946	1576	979	648	513	441	408	395
27.5	2077	2045	1975	1494	854	593	478	418	396	391

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CANDELA TABULATION - (Cont.)

30.0	2115	2080	1999	1401	774	555	453	401	383	385
32.5	2149	2108	2023	1288	720	529	433	381	370	376
35.0	2180	2127	2039	1195	684	511	412	359	351	352
37.5	2214	2148	2046	1131	654	489	384	330	320	307
40.0	2264	2184	2060	1093	633	464	352	291	273	251
42.5	2331	2231	2076	1079	608	426	309	247	216	191
45.0	2407	2278	2075	1078	570	380	261	195	160	142
47.5	2513	2332	2077	1092	510	318	206	148	117	103
50.0	2633	2414	2096	1114	423	236	146	103	86	77
52.5	2759	2491	2112	1115	315	159	99	72	61	58
55.0	2860	2521	2095	1057	210	113	71	51	43	40
57.5	2919	2525	2059	909	147	86	56	39	29	24
60.0	2893	2458	1905	660	115	69	43	28	17	12
62.5	2716	2227	1592	400	98	56	34	19	9	6
65.0	2335	1821	1134	224	80	44	25	13	5	2
67.5	1731	1280	678	140	60	34	18	9	4	2
70.0	1118	774	364	88	41	23	14	7	4	2
72.5	610	457	201	58	27	15	9	6	3	0
75.0	420	299	119	39	17	9	8	4	1	0
77.5	281	196	86	23	9	7	5	2	0	0
80.0	159	111	59	14	6	4	3	1	0	0
82.5	104	73	36	5	4	3	2	1	0	0
85.0	65	40	13	3	2	3	2	1	0	0
87.5	24	8	2	1	1	2	1	1	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

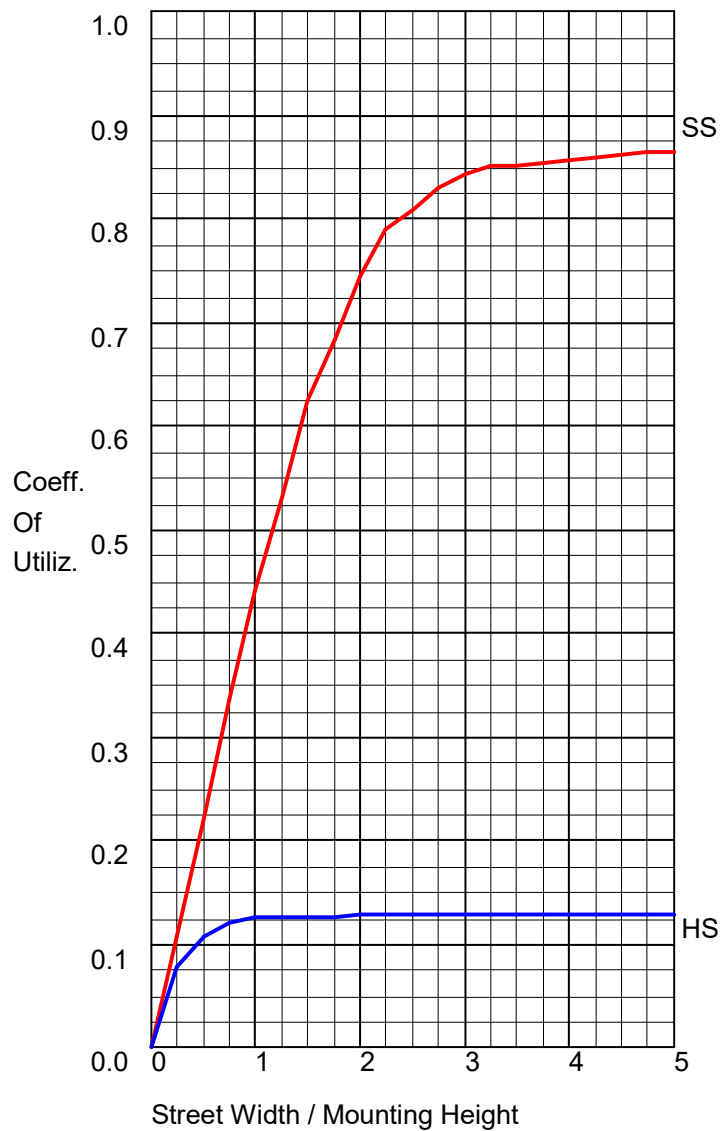
	175.0	180.0
0.0	1665	1665
2.5	1618	1609
5.0	1538	1528
7.5	1404	1389
10.0	1123	1127
12.5	806	806
15.0	604	604
17.5	499	498
20.0	438	436
22.5	401	400
25.0	391	392
27.5	386	388
30.0	383	383
32.5	372	372
35.0	337	332
37.5	283	279
40.0	223	223
42.5	171	168
45.0	124	122
47.5	96	94
50.0	75	75
52.5	57	57
55.0	39	39
57.5	23	23
60.0	12	10
62.5	5	4
65.0	1	1

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CANDELA TABULATION - (Cont.)

67.5	1	1
70.0	1	1
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

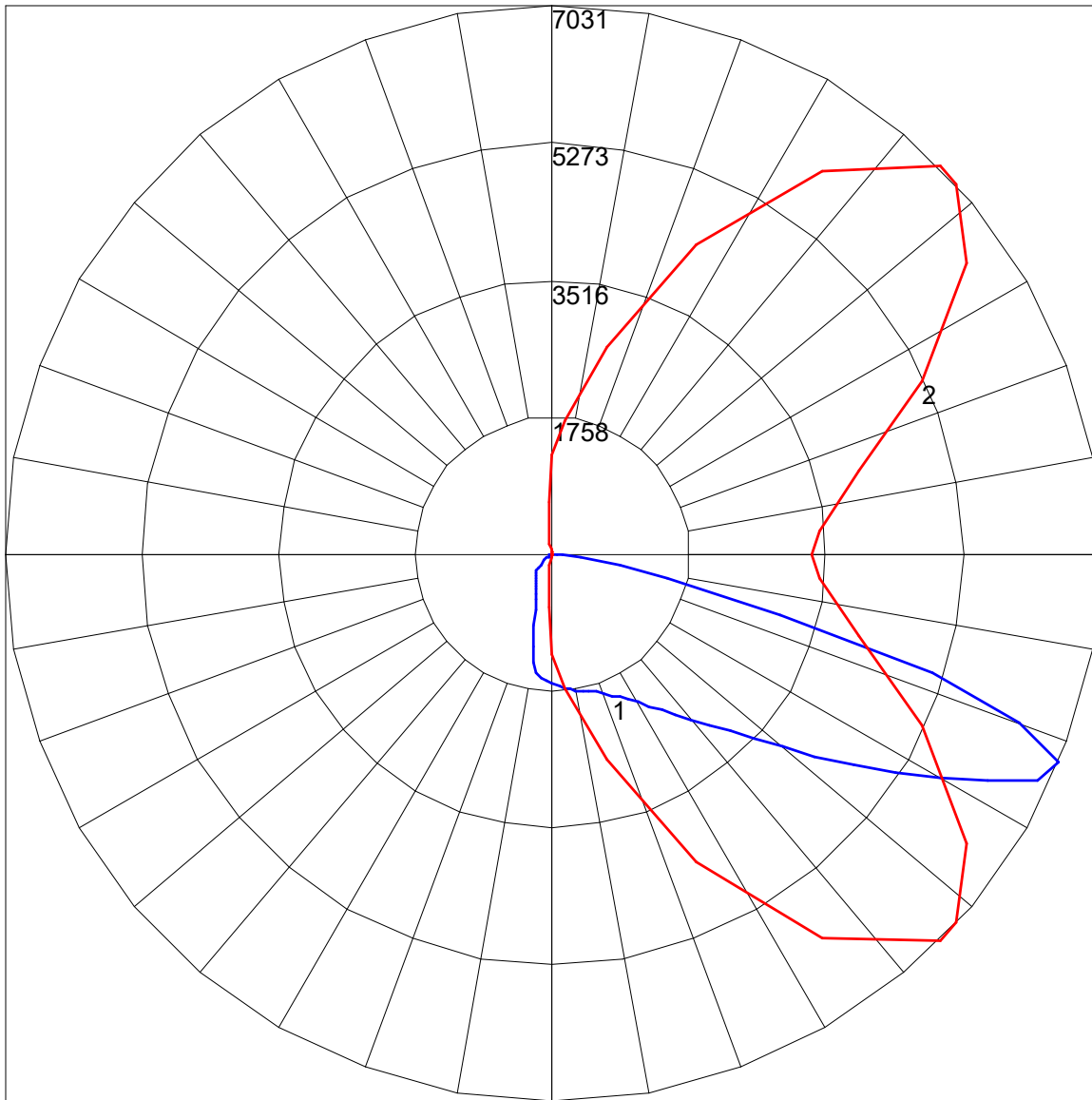
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

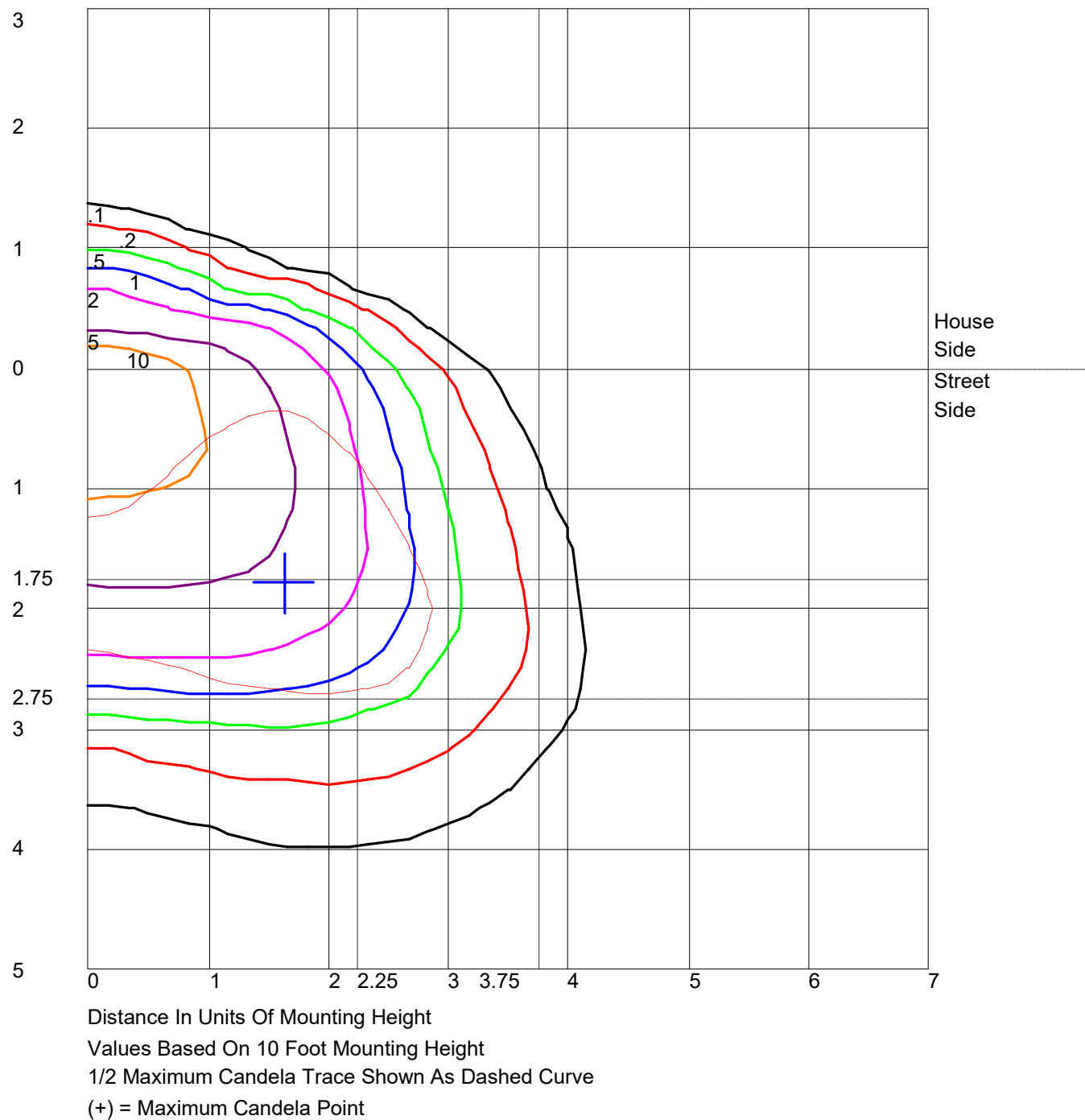
	Lumens	Percent Of Luminaire
Downward Street Side	7878.8	87.2
Downward House Side	1157.4	12.8
Downward Total	9036.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	9036.2	100.0

POLAR GRAPH

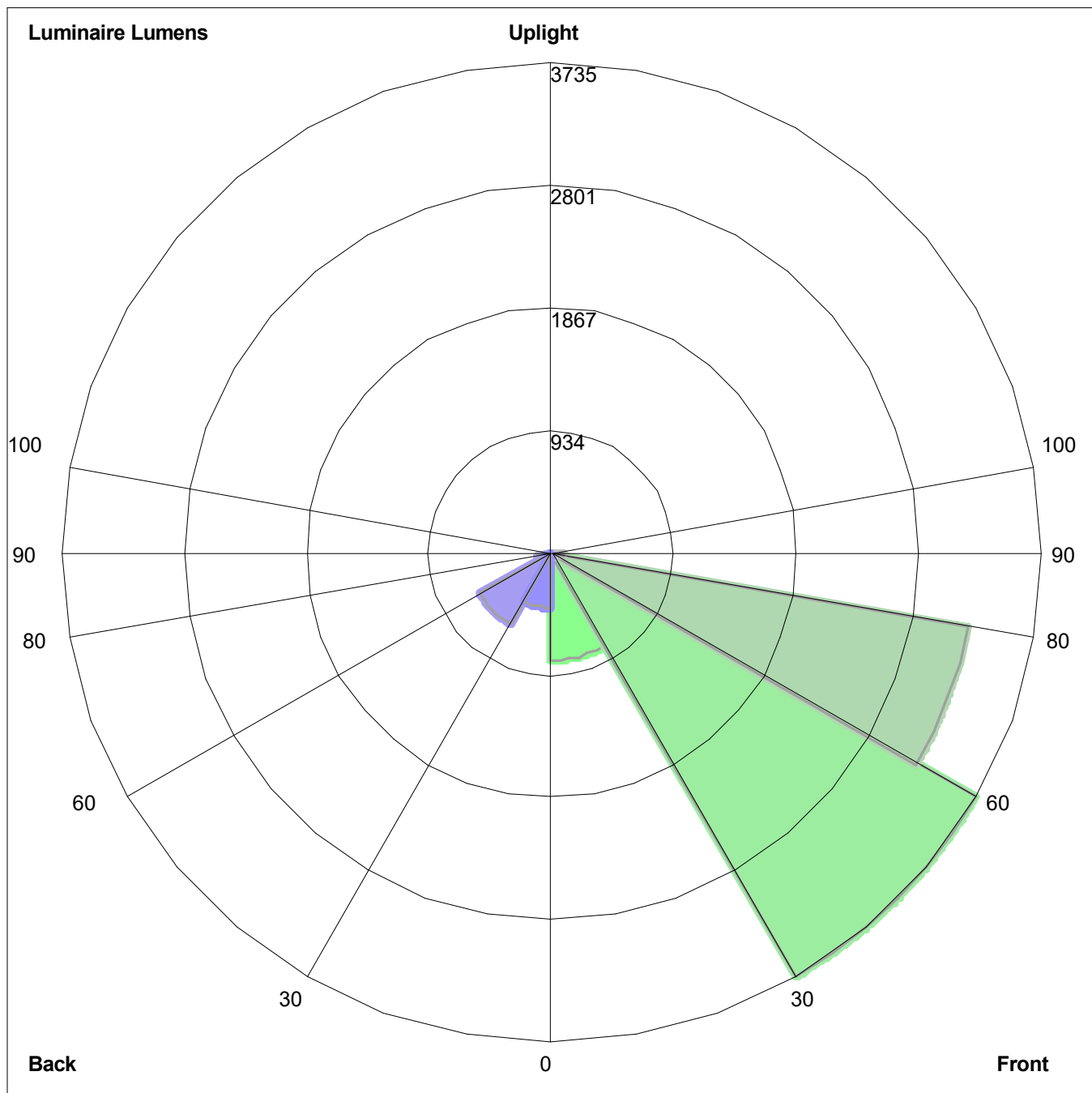


Maximum Candela = 7031 Located At Horizontal Angle = 42.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=822.0, Medium=3734.6, High=3221.2, Very High=101.0
Back: Low=420.9, Medium=621.7, High=112.5, Very High=2.3
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G2