



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-10L-50-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-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	6292
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	78
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4503
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	4503
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	205 (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)	394.2	N.A.	6.3
FM - Front-Medium (30-60)	2369.3	N.A.	37.7
FH - Front-High (60-80)	1971.3	N.A.	31.3
FVH - Front-Very High (80-90)	21.3	N.A.	0.3
BL - Back-Low (0-30)	389.9	N.A.	6.2
BM - Back-Medium (30-60)	867.2	N.A.	13.8
BH - Back-High (60-80)	276.4	N.A.	4.4
BVH - Back-Very High (80-90)	1.8	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	6291.4	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>45.0</u>	<u>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	670	670	670	670	670	670	670	670	670	670
2.5	672	663	664	661	664	666	656	664	667	664
5.0	664	653	655	656	659	660	652	663	667	670
7.5	670	661	661	663	667	669	659	670	675	682
10.0	691	679	682	685	687	690	680	692	694	699
12.5	724	716	718	721	724	727	716	726	726	730
15.0	771	763	766	773	773	777	769	773	769	772
17.5	823	817	823	836	839	842	842	836	825	820
20.0	884	881	888	909	922	924	922	910	892	880
22.5	946	946	964	991	1011	1022	1013	1001	969	948
25.0	1012	1011	1039	1089	1116	1128	1121	1104	1057	1017
27.5	1084	1086	1126	1188	1240	1246	1246	1212	1151	1094
30.0	1156	1163	1217	1299	1365	1373	1373	1330	1248	1181
32.5	1231	1247	1306	1406	1489	1500	1494	1453	1354	1280
35.0	1311	1324	1394	1511	1605	1639	1626	1575	1468	1374
37.5	1390	1411	1484	1615	1727	1772	1777	1703	1597	1482
40.0	1484	1504	1582	1724	1857	1905	1915	1839	1713	1598
42.5	1589	1609	1697	1842	1987	2036	2050	1978	1843	1717
45.0	1701	1723	1815	1958	2110	2172	2185	2110	1972	1851
47.5	1834	1853	1941	2083	2253	2303	2330	2250	2117	1989
50.0	1957	1982	2081	2211	2394	2460	2485	2398	2249	2123
52.5	2088	2127	2215	2360	2541	2619	2635	2545	2400	2288
55.0	2236	2281	2368	2508	2710	2793	2807	2707	2585	2462
57.5	2393	2430	2526	2679	2921	3032	3054	2931	2771	2640
60.0	2515	2554	2695	2894	3209	3372	3422	3190	2935	2749
62.5	2586	2611	2769	3059	3557	3792	3816	3469	3072	2811
65.0	2415	2451	2687	3083	3761	4208	4164	3667	3150	2868
67.5	1782	1793	2196	2816	3722	4503	4475	3927	3226	2780
70.0	512	524	931	1935	3237	4475	4480	3858	2793	2131
72.5	147	149	204	435	1848	3660	3662	3049	1951	1319
75.0	66	68	77	139	397	1684	1952	1778	1005	589
77.5	31	31	36	50	119	344	393	631	436	254
80.0	24	24	24	29	47	82	93	155	205	122
82.5	23	23	23	27	33	40	41	55	93	98
85.0	19	19	20	23	28	33	34	40	52	81
87.5	13	13	14	16	18	23	24	28	41	50
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	670	670	670	670	670	670	670	670	670	670
2.5	668	670	673	670	675	677	678	680	685	686
5.0	674	678	685	687	692	698	702	707	708	713
7.5	689	697	702	710	718	727	732	736	739	741
10.0	711	721	728	739	751	761	766	770	774	772
12.5	741	752	761	779	795	805	807	813	807	807
15.0	780	793	804	822	844	856	857	859	850	845
17.5	825	839	852	880	903	915	920	917	899	882
20.0	882	890	906	938	966	986	991	975	948	919
22.5	943	951	971	1009	1044	1069	1069	1050	1001	944
25.0	1008	1023	1038	1078	1126	1153	1150	1111	1003	883
27.5	1079	1091	1105	1159	1211	1242	1233	1116	890	708

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CANDELA TABULATION - (Cont.)

30.0	1157	1169	1185	1240	1308	1346	1285	1007	686	488
32.5	1246	1257	1276	1335	1413	1445	1238	795	464	297
35.0	1337	1343	1365	1428	1517	1509	1066	560	285	181
37.5	1436	1437	1467	1536	1620	1484	824	353	173	122
40.0	1546	1549	1573	1646	1725	1336	569	209	118	94
42.5	1656	1662	1682	1768	1816	1074	356	132	90	78
45.0	1774	1784	1812	1895	1825	783	205	96	73	66
47.5	1903	1915	1947	2034	1720	510	126	73	62	54
50.0	2051	2057	2091	2178	1486	303	88	61	49	41
52.5	2219	2239	2253	2326	1143	175	65	48	38	29
55.0	2389	2400	2425	2441	792	105	52	37	25	18
57.5	2527	2548	2578	2445	531	68	40	25	15	8
60.0	2609	2619	2652	2231	382	51	29	15	6	2
62.5	2633	2641	2663	1772	320	46	20	7	2	0
65.0	2665	2672	2679	1197	302	67	12	2	1	0
67.5	2511	2503	2518	703	287	104	6	1	0	0
70.0	1788	1760	1789	333	223	133	6	1	1	0
72.5	1031	947	963	117	106	115	4	1	1	0
75.0	414	390	384	50	39	48	2	0	0	0
77.5	182	166	146	25	14	19	0	0	0	0
80.0	97	84	62	12	5	5	0	0	0	0
82.5	70	59	35	3	2	2	0	0	0	0
85.0	47	36	15	1	0	0	0	0	0	0
87.5	26	10	1	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

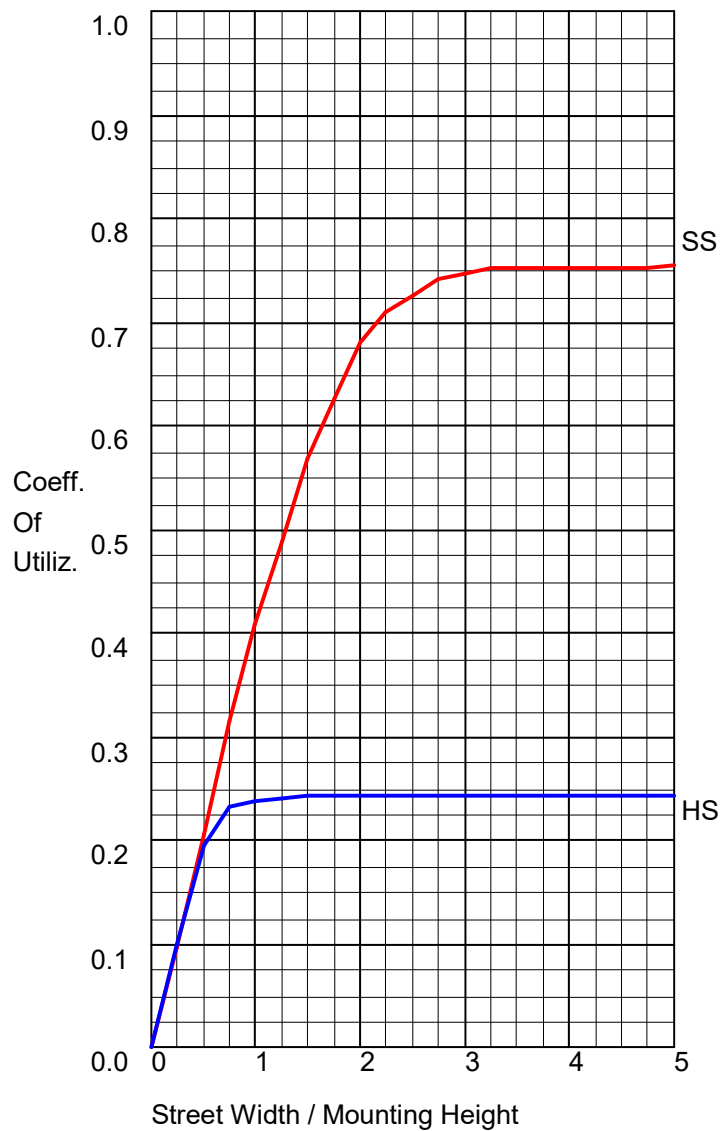
	<u>175.0</u>	<u>180.0</u>
0.0	670	670
2.5	686	685
5.0	714	711
7.5	740	740
10.0	770	776
12.5	802	804
15.0	840	837
17.5	874	874
20.0	902	904
22.5	901	898
25.0	807	797
27.5	607	595
30.0	396	384
32.5	240	233
35.0	148	147
37.5	107	107
40.0	86	85
42.5	73	72
45.0	62	61
47.5	49	49
50.0	38	37
52.5	25	24
55.0	14	14
57.5	6	5
60.0	1	1
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

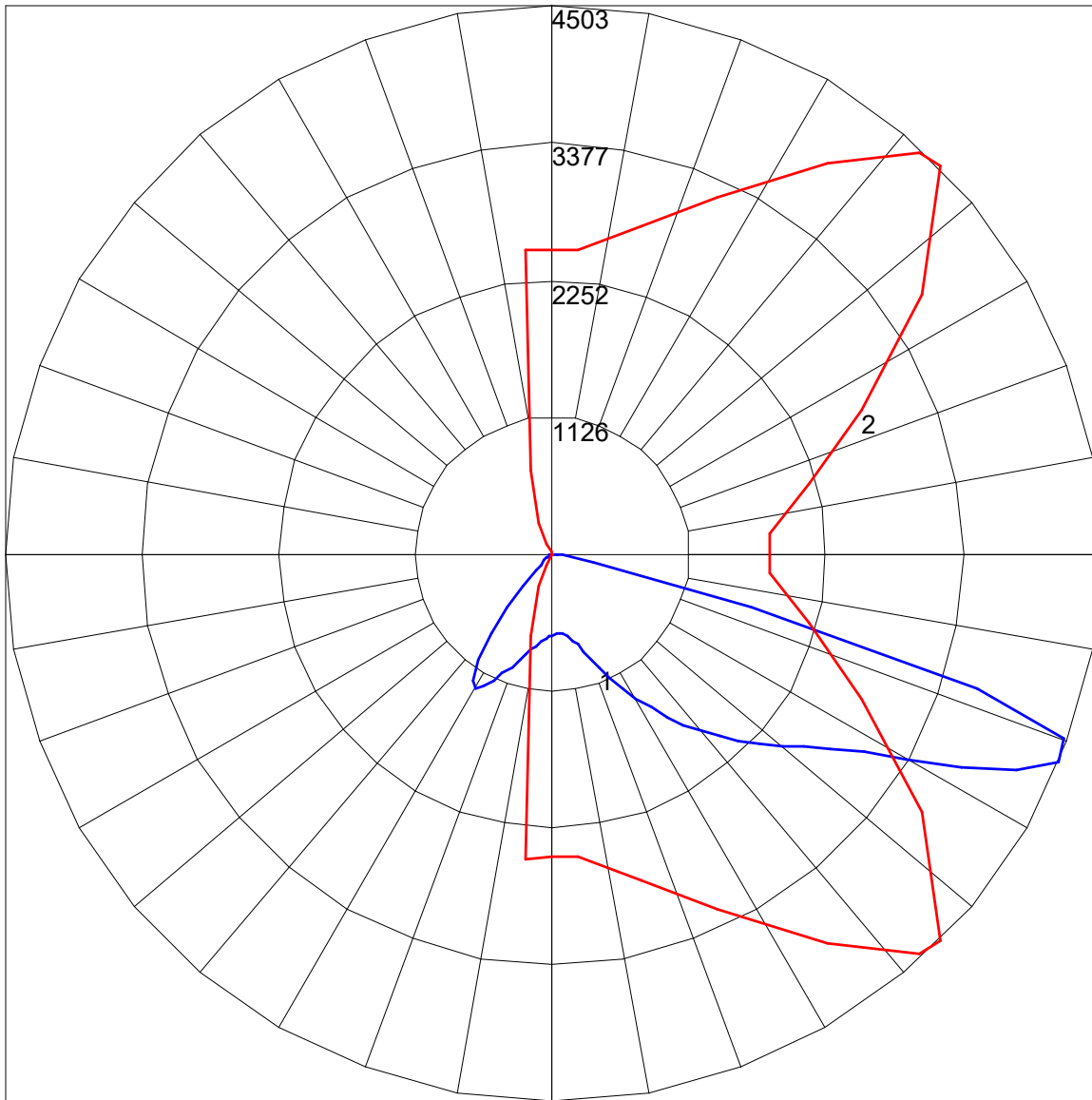
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

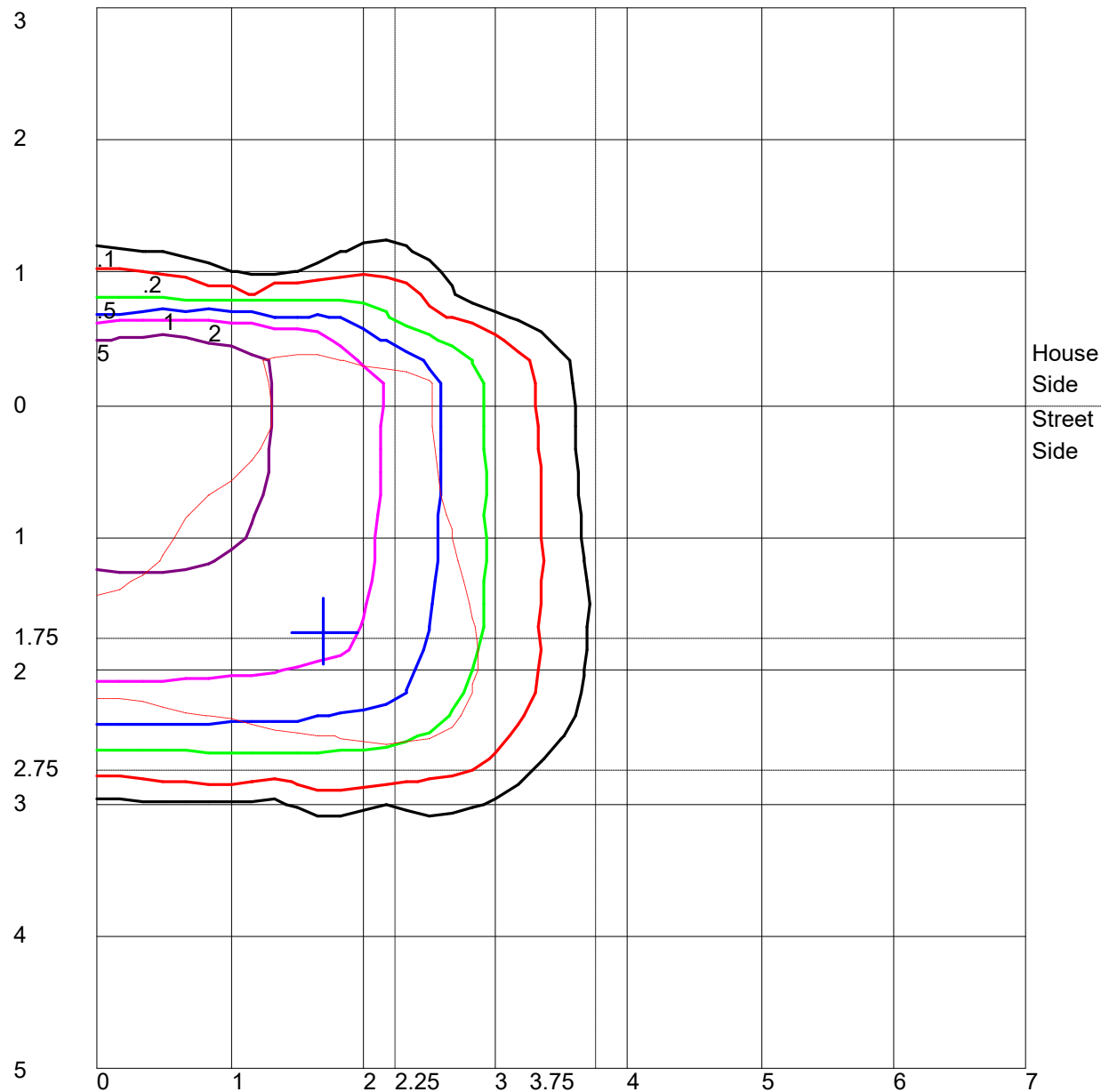
	Lumens	Percent Of Luminaire
Downward Street Side	4756.2	75.6
Downward House Side	1535.3	24.4
Downward Total	6291.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	6291.5	100.0

POLAR GRAPH

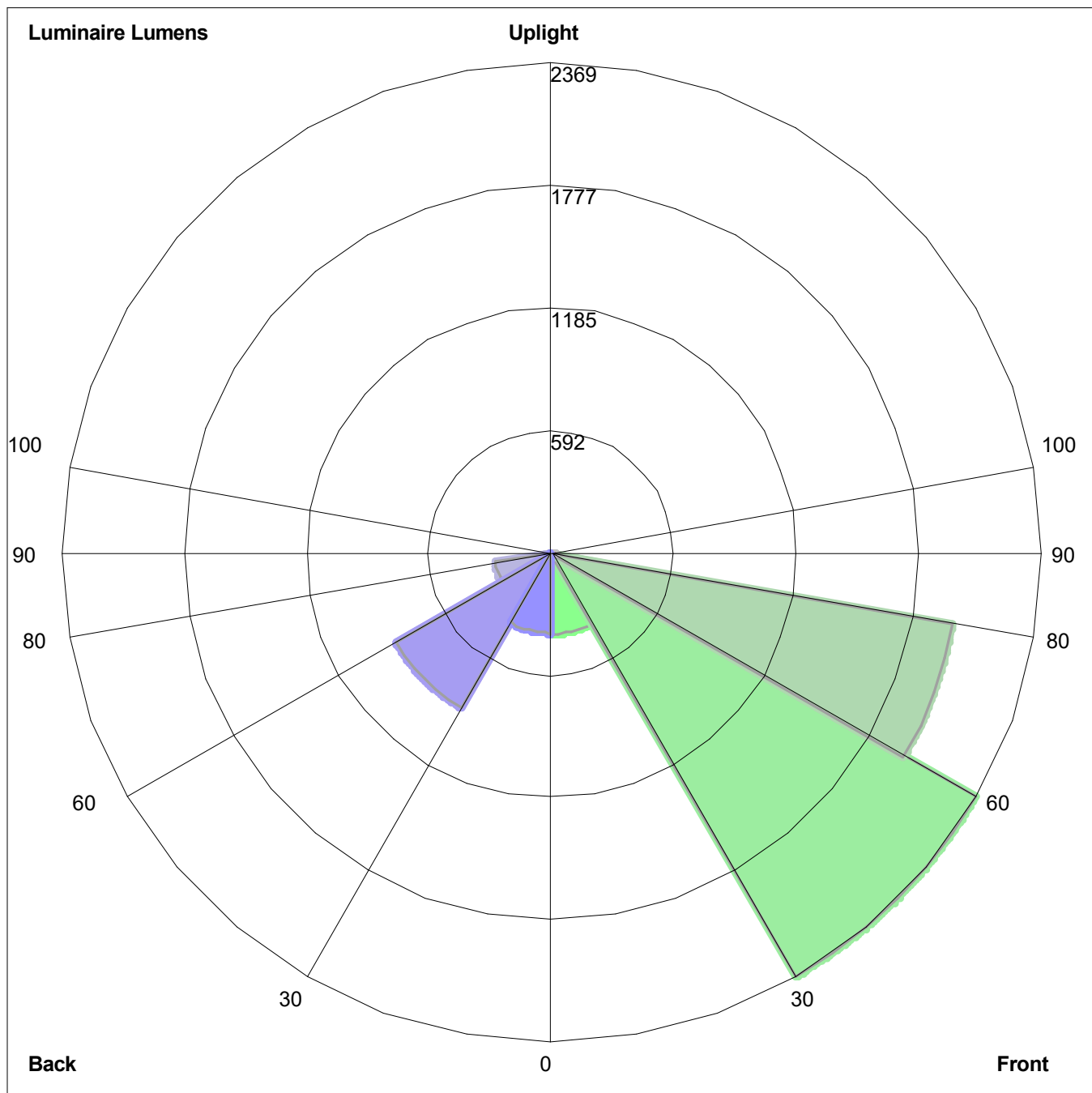


Maximum Candela = 4503 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=394.2, Medium=2369.3, High=1971.3, Very High=21.3
Back: Low=389.9, Medium=867.2, High=276.4, Very High=1.8
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G2