



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-10L-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-10L-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	5519
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	78
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3950
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	3950
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	180 (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)	345.8	N.A.	6.3
FM - Front-Medium (30-60)	2078.3	N.A.	37.7
FH - Front-High (60-80)	1729.1	N.A.	31.3
FVH - Front-Very High (80-90)	18.7	N.A.	0.3
BL - Back-Low (0-30)	342.0	N.A.	6.2
BM - Back-Medium (30-60)	760.7	N.A.	13.8
BH - Back-High (60-80)	242.5	N.A.	4.4
BVH - Back-Very High (80-90)	1.6	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	5518.7	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	588	588	588	588	588	588	588	588	588	588
2.5	589	581	582	580	582	584	576	582	585	582
5.0	582	573	575	576	578	579	572	581	585	588
7.5	588	580	580	581	585	587	578	588	592	599
10.0	606	596	599	600	602	605	597	607	609	613
12.5	635	628	630	633	635	637	628	636	636	640
15.0	676	670	672	678	678	682	674	678	674	677
17.5	722	717	722	733	736	739	739	733	724	719
20.0	775	773	779	798	809	810	809	799	783	772
22.5	830	830	845	869	887	896	889	878	850	832
25.0	888	887	912	955	979	989	984	968	927	892
27.5	950	952	987	1042	1088	1093	1093	1063	1009	960
30.0	1014	1020	1067	1139	1197	1205	1205	1167	1095	1036
32.5	1079	1094	1146	1233	1306	1316	1311	1275	1188	1123
35.0	1150	1161	1223	1325	1408	1438	1427	1382	1288	1206
37.5	1219	1238	1301	1416	1515	1555	1558	1494	1401	1300
40.0	1301	1319	1388	1512	1629	1671	1680	1613	1502	1402
42.5	1393	1411	1488	1615	1743	1786	1798	1735	1616	1506
45.0	1492	1511	1592	1718	1851	1906	1917	1851	1730	1624
47.5	1609	1626	1703	1827	1976	2020	2044	1974	1857	1744
50.0	1717	1739	1825	1940	2100	2158	2180	2104	1973	1862
52.5	1832	1866	1943	2070	2229	2297	2312	2233	2105	2007
55.0	1962	2000	2077	2200	2377	2450	2462	2374	2268	2160
57.5	2099	2131	2216	2349	2562	2660	2679	2571	2431	2315
60.0	2206	2240	2364	2538	2815	2957	3002	2798	2574	2411
62.5	2268	2291	2429	2683	3120	3326	3347	3043	2695	2466
65.0	2118	2150	2357	2704	3299	3691	3653	3216	2763	2515
67.5	1563	1573	1926	2470	3265	3950	3925	3445	2829	2439
70.0	449	460	817	1697	2839	3925	3930	3384	2450	1870
72.5	129	131	179	381	1621	3211	3212	2675	1711	1157
75.0	58	60	67	122	348	1477	1712	1559	881	517
77.5	28	28	31	44	104	302	344	554	382	223
80.0	21	21	21	26	41	72	82	136	180	107
82.5	20	20	20	24	29	35	36	48	82	86
85.0	17	17	17	20	25	29	29	35	46	71
87.5	11	11	12	14	16	20	21	25	36	44
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	588	588	588	588	588	588	588	588	588	588
2.5	586	588	590	588	592	594	595	597	600	601
5.0	591	595	600	602	607	612	616	620	621	625
7.5	604	612	616	623	630	637	642	646	648	650
10.0	624	633	638	648	659	668	672	675	679	677
12.5	650	659	668	683	697	706	708	713	708	708
15.0	684	695	705	721	740	751	752	753	746	741
17.5	724	736	747	772	792	802	807	804	788	774
20.0	774	781	795	822	847	865	869	856	832	806
22.5	827	834	852	885	915	938	938	921	878	828
25.0	884	897	911	946	987	1011	1008	974	880	775
27.5	947	957	969	1017	1062	1090	1081	979	781	621

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CANDELA TABULATION - (Cont.)

30.0	1015	1025	1040	1088	1148	1181	1127	883	601	428
32.5	1093	1102	1119	1171	1240	1267	1086	697	407	261
35.0	1172	1178	1197	1253	1331	1323	935	491	250	158
37.5	1260	1261	1287	1347	1421	1301	723	309	152	107
40.0	1356	1358	1380	1444	1513	1172	499	183	103	83
42.5	1452	1458	1475	1551	1593	942	312	116	79	68
45.0	1556	1565	1590	1662	1601	687	180	84	64	58
47.5	1669	1680	1708	1784	1509	448	111	64	54	47
50.0	1799	1804	1834	1910	1303	266	77	53	43	36
52.5	1946	1964	1976	2040	1003	154	57	42	33	26
55.0	2095	2105	2128	2141	694	92	46	32	22	16
57.5	2217	2235	2261	2145	466	60	35	22	13	7
60.0	2289	2297	2326	1957	335	45	26	13	6	2
62.5	2310	2316	2336	1555	281	41	17	6	2	0
65.0	2337	2344	2349	1050	265	59	10	2	1	0
67.5	2202	2196	2209	617	251	91	6	1	0	0
70.0	1568	1544	1569	292	195	117	6	1	1	0
72.5	904	831	845	102	93	101	4	1	1	0
75.0	363	342	337	44	34	42	2	0	0	0
77.5	159	146	128	22	12	17	0	0	0	0
80.0	85	74	54	10	5	5	0	0	0	0
82.5	62	52	30	3	2	2	0	0	0	0
85.0	41	31	13	1	0	0	0	0	0	0
87.5	23	9	1	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

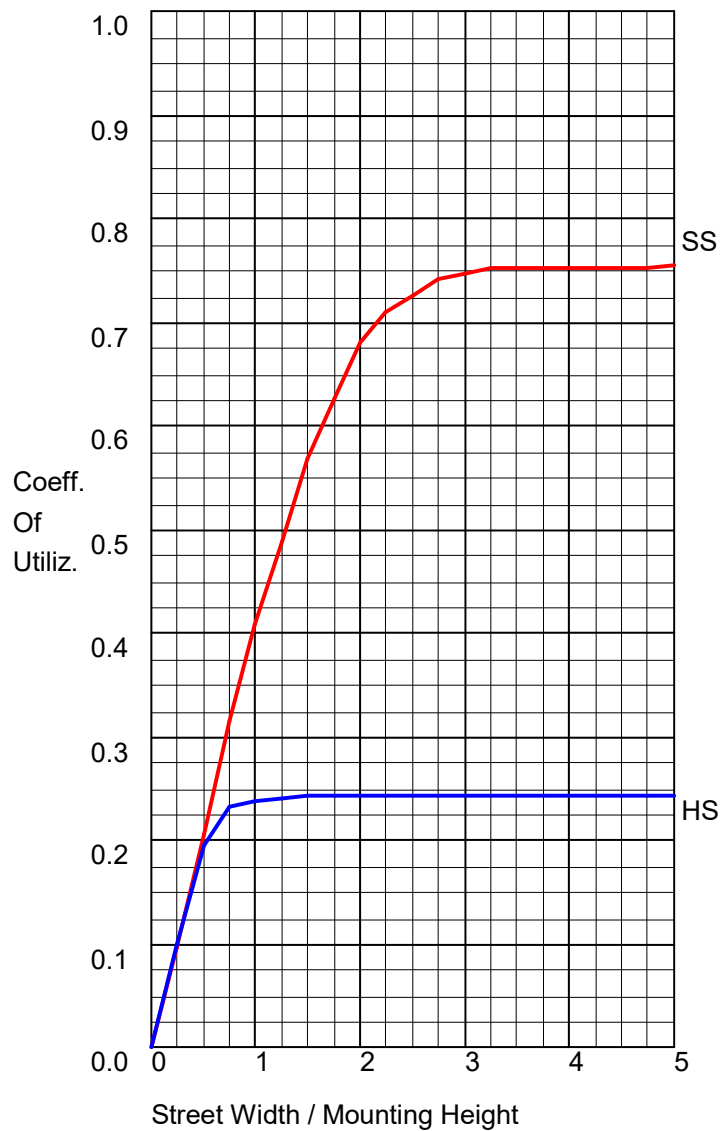
	<u>175.0</u>	<u>180.0</u>
0.0	588	588
2.5	601	600
5.0	626	624
7.5	649	649
10.0	675	681
12.5	704	705
15.0	737	734
17.5	766	766
20.0	791	793
22.5	790	787
25.0	708	699
27.5	532	522
30.0	347	337
32.5	211	204
35.0	130	129
37.5	94	94
40.0	76	75
42.5	64	64
45.0	54	53
47.5	43	43
50.0	33	32
52.5	22	21
55.0	12	12
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

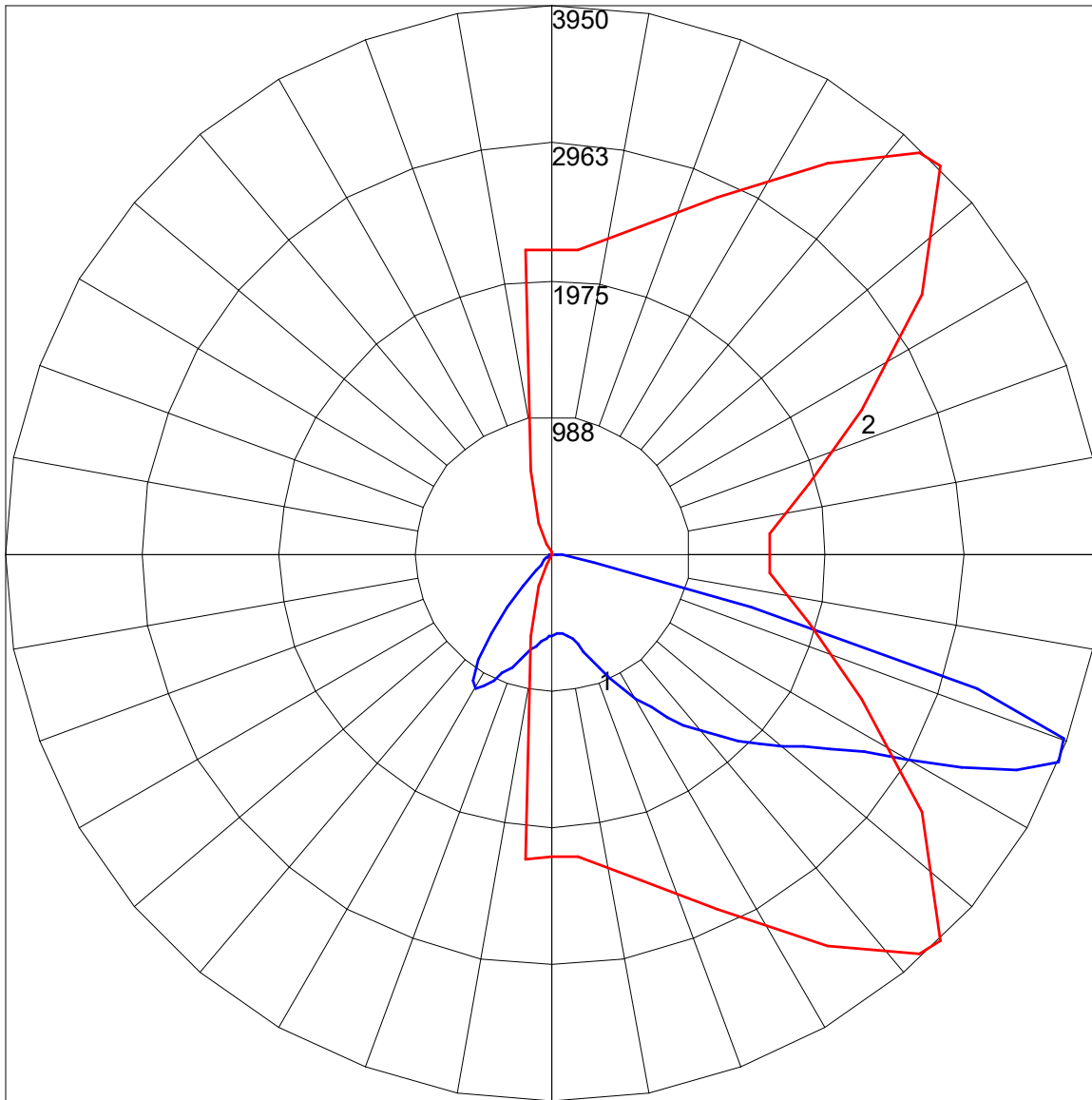
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

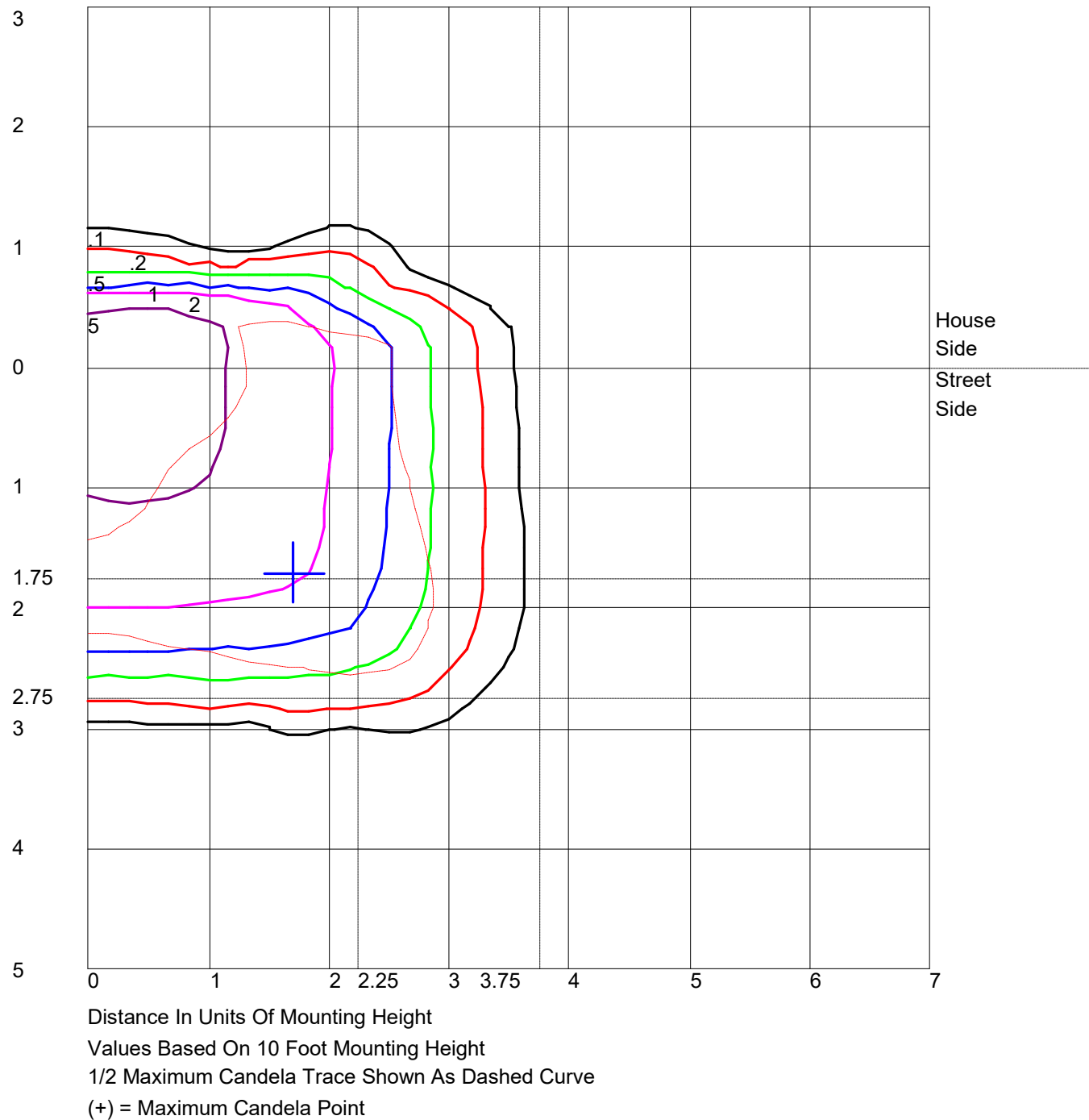
	Lumens	Percent Of Luminaire
Downward Street Side	4171.9	75.6
Downward House Side	1346.8	24.4
Downward Total	5518.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5518.7	100.0

POLAR GRAPH

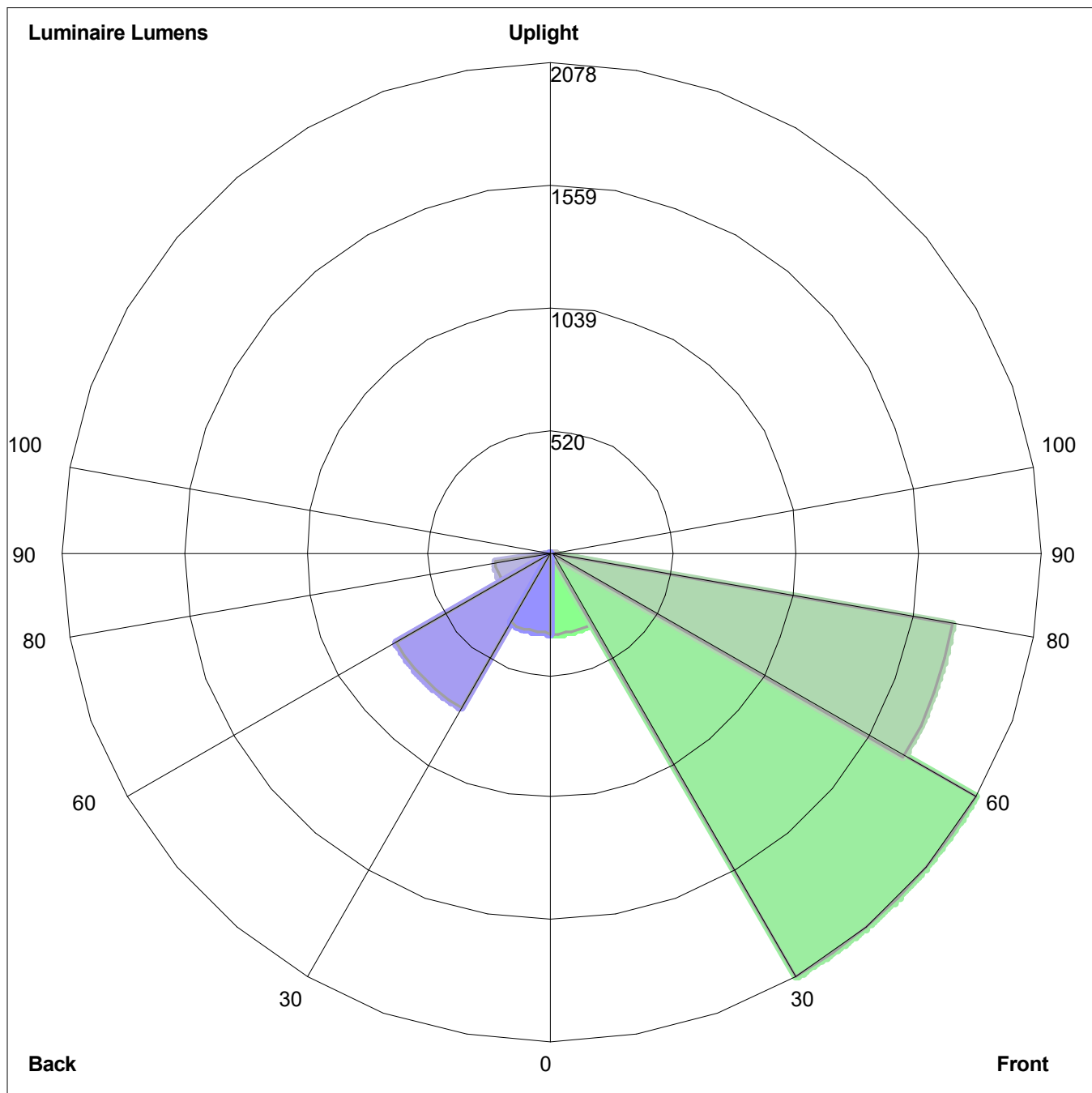


Maximum Candela = 3950 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=345.8, Medium=2078.3, High=1729.1, Very High=18.7
Back: Low=342.0, Medium=760.7, High=242.5, Very High=1.6
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1