



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-2-LED-05L-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11792

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 05/01/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-SAX-2-LED-05L-40-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4370
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3981
Maximum Candela Angle	75H 65V
Maximum Candela (<90 Degrees Vertical)	3981
Maximum Candela Angle (<90 Degrees Vertical)	75H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	243 (5.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	425.6	N.A.	9.7
FM - Front-Medium (30-60)	2074.0	N.A.	47.5
FH - Front-High (60-80)	1028.4	N.A.	23.5
FVH - Front-Very High (80-90)	17.8	N.A.	0.4
BL - Back-Low (0-30)	280.1	N.A.	6.4
BM - Back-Medium (30-60)	417.4	N.A.	9.6
BH - Back-High (60-80)	125.4	N.A.	2.9
BVH - Back-Very High (80-90)	1.4	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	4370.1	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>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>77.5</u>
0.0	805	805	805	805	805	805	805	805	805	805
2.5	820	819	823	821	819	818	816	810	811	803
5.0	843	836	838	840	838	835	834	828	823	814
7.5	855	853	856	856	858	855	855	847	844	833
10.0	868	866	872	874	876	879	878	873	864	858
12.5	888	885	889	892	901	903	904	903	895	889
15.0	901	899	906	914	925	932	936	934	927	925
17.5	914	917	927	935	950	966	975	974	972	969
20.0	937	943	949	965	979	1001	1011	1024	1023	1013
22.5	974	977	989	1002	1021	1037	1060	1078	1074	1069
25.0	1021	1024	1035	1047	1062	1084	1112	1134	1138	1133
27.5	1072	1075	1083	1104	1124	1144	1163	1197	1205	1200
30.0	1140	1144	1156	1168	1195	1215	1238	1266	1275	1275
32.5	1219	1222	1232	1255	1275	1300	1314	1337	1355	1360
35.0	1302	1301	1321	1347	1379	1398	1403	1416	1435	1443
37.5	1390	1391	1407	1441	1481	1508	1502	1508	1527	1542
40.0	1479	1482	1501	1544	1598	1631	1628	1618	1635	1652
42.5	1551	1561	1588	1648	1722	1770	1761	1739	1748	1797
45.0	1604	1613	1657	1726	1825	1911	1916	1877	1894	1927
47.5	1623	1618	1673	1774	1904	2049	2107	2050	2057	2088
50.0	1567	1560	1624	1753	1958	2170	2300	2279	2273	2300
52.5	1430	1433	1499	1641	1907	2260	2521	2539	2535	2565
55.0	1220	1220	1297	1456	1760	2256	2730	2815	2824	2862
57.5	946	953	1037	1187	1501	2132	2874	3123	3176	3216
60.0	640	647	723	873	1178	1862	2903	3450	3548	3579
62.5	352	364	422	539	793	1476	2783	3628	3831	3872
65.0	189	190	224	296	471	1062	2452	3535	3981	3946
67.5	115	119	129	177	280	669	1888	3097	3735	3652
70.0	75	75	82	109	180	382	1272	2360	2861	2716
72.5	50	51	54	71	122	244	745	1499	1692	1528
75.0	30	31	32	42	79	179	364	895	835	688
77.5	16	17	18	22	45	124	191	491	425	337
80.0	14	14	14	15	21	69	113	207	243	198
82.5	15	15	14	15	17	28	52	74	142	123
85.0	12	12	11	12	14	22	25	35	63	59
87.5	8	7	7	7	8	13	16	22	22	22
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	805	805	805	805	805	805	805	805	805	805
2.5	811	807	808	803	799	799	796	794	795	797
5.0	822	816	811	802	798	792	787	783	776	775
7.5	835	826	827	808	799	785	776	769	763	759
10.0	857	850	838	815	802	783	771	757	747	741
12.5	885	873	863	829	806	783	758	740	732	723
15.0	918	904	886	847	815	775	746	731	719	714
17.5	956	936	922	862	816	772	737	716	697	676
20.0	1004	981	957	888	822	765	725	683	603	533
22.5	1056	1032	1001	914	825	762	696	561	444	356
25.0	1113	1080	1041	939	832	745	584	413	274	192
27.5	1180	1146	1099	965	834	693	448	250	163	133

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CANDELA TABULATION - (Cont.)

30.0	1254	1211	1151	985	838	585	302	160	126	114
32.5	1333	1286	1214	1009	814	460	188	128	111	103
35.0	1418	1364	1272	1030	747	319	142	113	102	95
37.5	1515	1448	1347	1054	645	204	121	102	93	85
40.0	1617	1546	1415	1069	517	149	108	93	82	72
42.5	1742	1652	1501	1063	359	126	97	83	68	56
45.0	1873	1763	1588	1027	222	112	87	69	52	41
47.5	2029	1902	1674	941	160	101	76	54	37	28
50.0	2228	2059	1780	805	131	88	62	39	26	20
52.5	2458	2253	1890	621	113	74	46	26	17	13
55.0	2732	2456	1984	410	100	61	33	17	11	8
57.5	3030	2661	2050	265	91	47	22	11	7	5
60.0	3305	2777	2053	202	85	36	14	6	3	2
62.5	3490	2793	1915	162	79	27	8	2	1	1
65.0	3451	2627	1605	130	67	19	4	1	1	1
67.5	2951	2106	1135	99	47	12	2	1	1	0
70.0	1979	1317	625	70	30	7	1	1	1	0
72.5	915	641	291	51	17	3	1	1	0	0
75.0	352	281	138	32	9	2	1	0	0	0
77.5	181	162	78	18	4	1	0	0	0	0
80.0	116	101	49	8	2	0	0	0	0	0
82.5	76	54	27	3	1	0	0	0	0	0
85.0	43	27	11	1	0	0	0	0	0	0
87.5	15	7	1	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

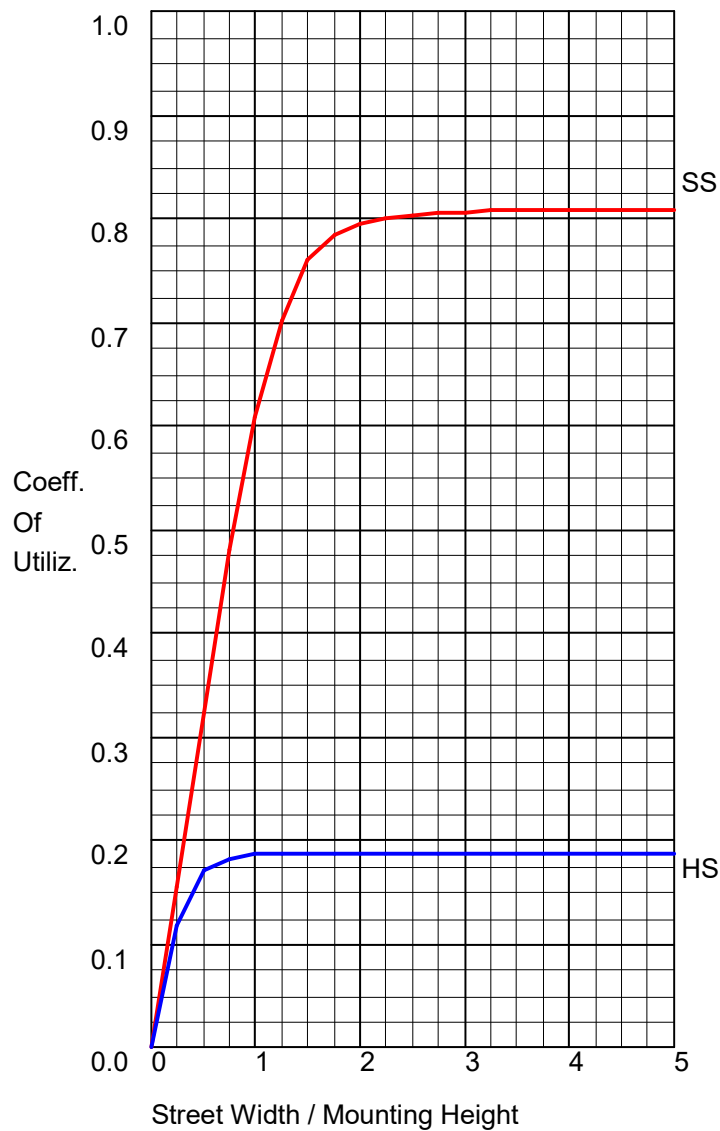
	<u>175.0</u>	<u>180.0</u>
0.0	805	805
2.5	791	791
5.0	776	773
7.5	756	752
10.0	736	733
12.5	721	721
15.0	706	703
17.5	651	644
20.0	489	484
22.5	303	298
25.0	167	165
27.5	124	122
30.0	109	108
32.5	99	98
35.0	90	90
37.5	80	79
40.0	67	66
42.5	51	49
45.0	36	35
47.5	25	24
50.0	17	16
52.5	11	11
55.0	7	7
57.5	3	3
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

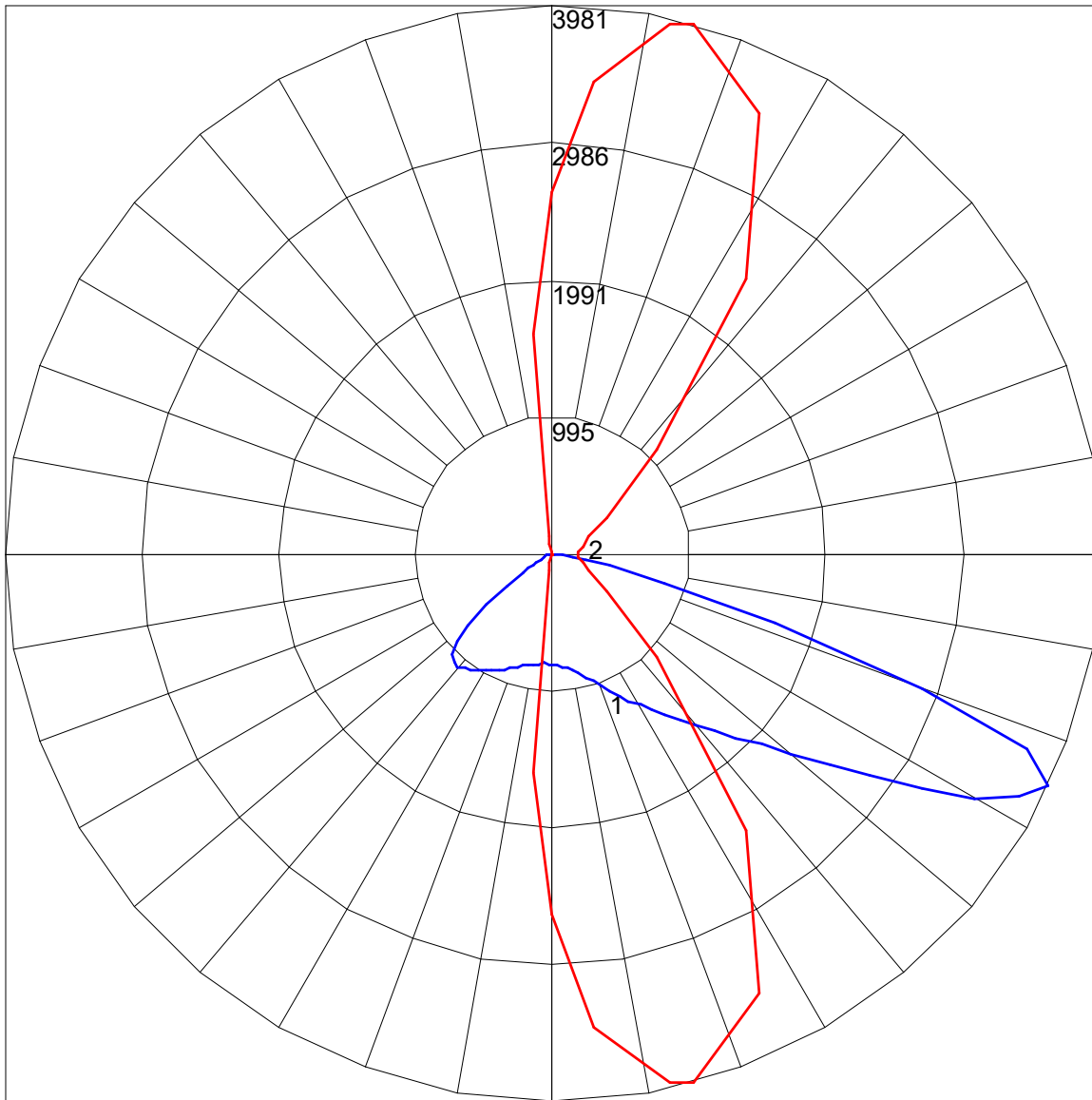
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

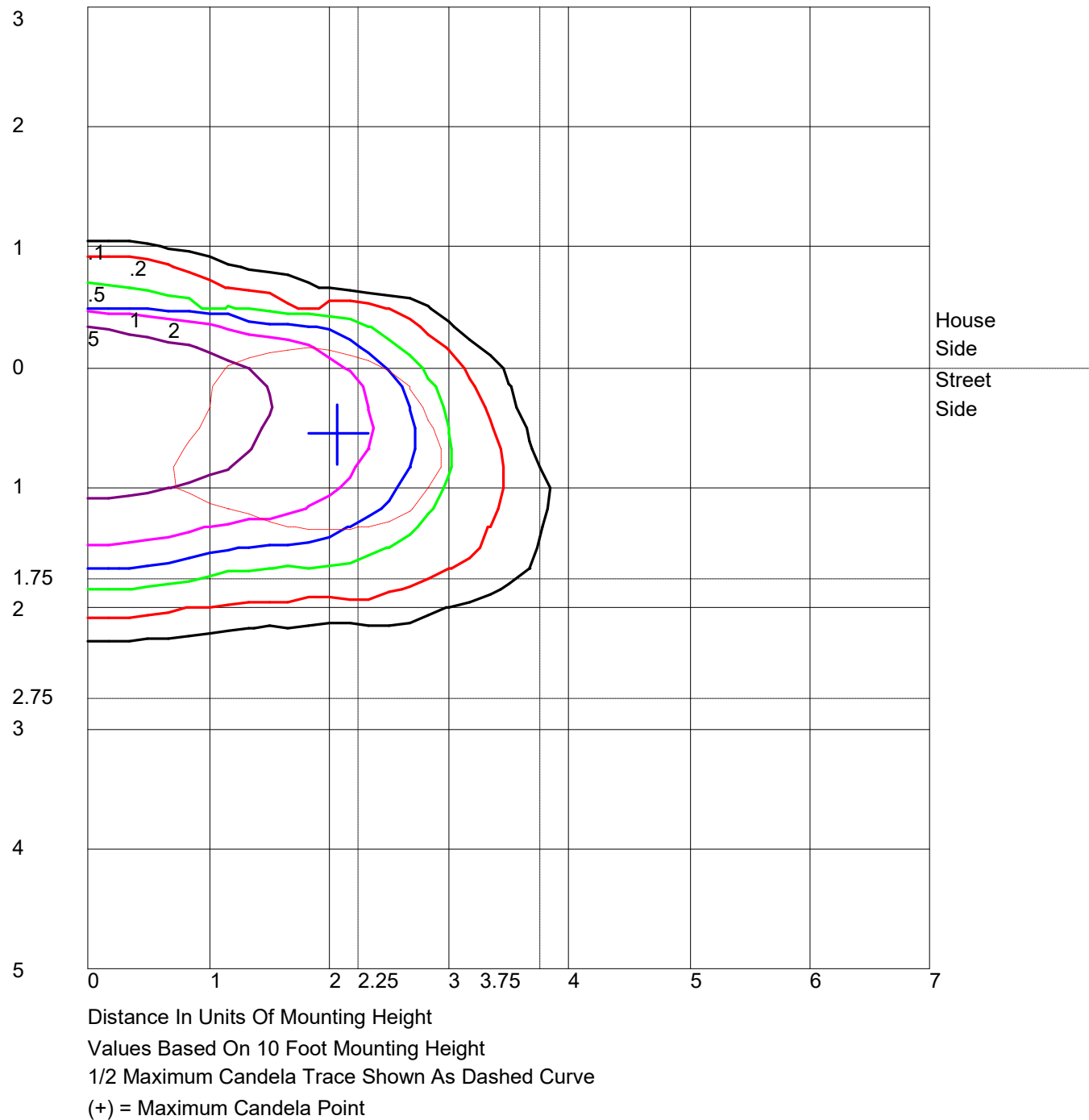
	Lumens	Percent Of Luminaire
Downward Street Side	3545.7	81.1
Downward House Side	824.3	18.9
Downward Total	4370.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	4370.0	100.0

POLAR GRAPH

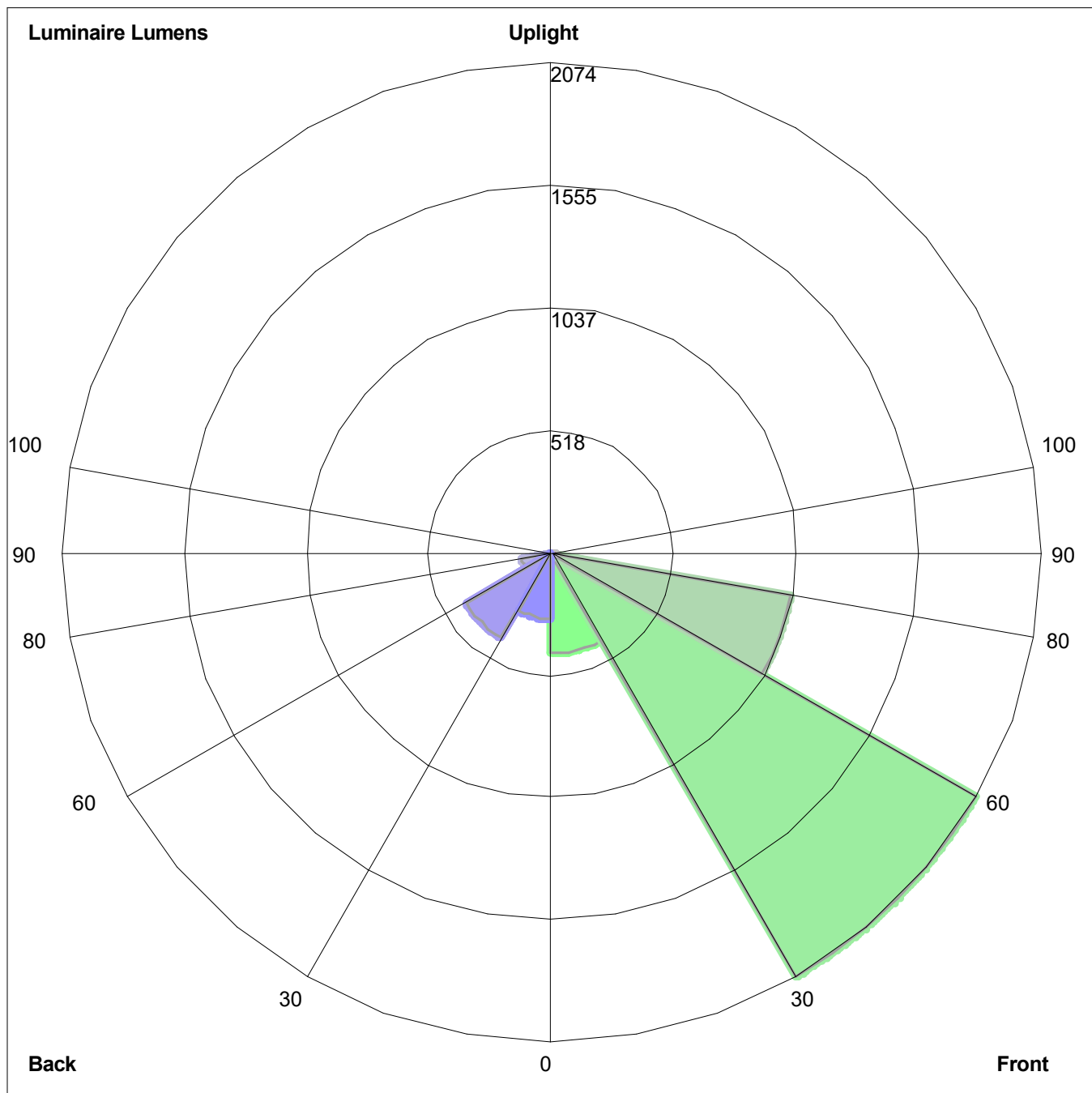


Maximum Candela = 3981 Located At Horizontal Angle = 75, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=425.6, Medium= 2074.0, High=1028.4, Very High=17.8
Back: Low=280.1, Medium=417.4, High=125.4, Very High=1.4
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1