



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-2-LED-05L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11778
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 04/29/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-2-LED-05L-50
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6051
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	39.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5115
Maximum Candela Angle	80H 65V
Maximum Candela (<90 Degrees Vertical)	5115
Maximum Candela Angle (<90 Degrees Vertical)	80H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	360 (5.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	427.6	N.A.	7.1
FM - Front-Medium (30-60)	2242.8	N.A.	37.1
FH - Front-High (60-80)	1260.9	N.A.	20.8
FVH - Front-Very High (80-90)	25.8	N.A.	0.4
BL - Back-Low (0-30)	361.5	N.A.	6.0
BM - Back-Medium (30-60)	1257.1	N.A.	20.8
BH - Back-High (60-80)	444.0	N.A.	7.3
BVH - Back-Very High (80-90)	31.7	N.A.	0.5
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	6051.4	N.A.	100.0
BUG Rating	B2-U0-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>80</u>
0.0	833	833	833	833	833	833	833	833	833	833
2.5	850	854	853	852	852	848	846	842	838	836
5.0	870	873	873	873	870	867	863	857	850	846
7.5	886	888	888	888	887	885	881	875	866	861
10.0	900	902	902	904	905	906	902	898	887	882
12.5	911	913	916	920	927	929	929	927	917	909
15.0	917	920	924	934	947	958	962	961	951	942
17.5	922	925	933	948	967	986	997	1002	991	982
20.0	927	930	942	964	988	1015	1043	1052	1039	1028
22.5	937	940	957	982	1011	1045	1085	1109	1098	1086
25.0	954	958	975	1004	1038	1079	1130	1174	1172	1158
27.5	985	990	1006	1036	1073	1116	1178	1248	1262	1243
30.0	1036	1042	1053	1080	1118	1162	1234	1329	1360	1341
32.5	1112	1118	1127	1147	1178	1220	1297	1409	1465	1453
35.0	1219	1225	1226	1236	1260	1296	1370	1490	1578	1571
37.5	1356	1363	1364	1362	1367	1394	1457	1575	1700	1706
40.0	1524	1530	1530	1517	1508	1526	1567	1661	1833	1848
42.5	1702	1719	1714	1708	1699	1693	1701	1749	1955	1993
45.0	1849	1863	1865	1888	1918	1921	1877	1858	2080	2146
47.5	1920	1925	1940	2001	2105	2186	2150	2014	2231	2337
50.0	1875	1886	1918	2020	2212	2429	2486	2225	2419	2567
52.5	1725	1729	1783	1929	2204	2584	2876	2523	2647	2843
55.0	1470	1471	1521	1702	2033	2577	3233	2942	2952	3194
57.5	1152	1149	1195	1346	1704	2361	3494	3449	3304	3640
60.0	827	819	828	941	1263	1927	3576	3944	3762	4157
62.5	568	561	549	611	816	1344	3361	4280	4331	4752
65.0	396	385	383	414	500	770	2772	4293	4777	5115
67.5	267	273	277	299	350	463	1865	3818	4800	4877
70.0	191	198	203	224	265	325	1071	2823	4068	3772
72.5	114	120	130	163	202	249	582	1803	2581	2073
75.0	63	69	65	91	130	193	335	1100	1164	789
77.5	51	60	48	56	73	126	216	654	562	333
80.0	50	57	42	41	51	85	122	360	298	177
82.5	51	52	35	28	34	60	65	176	157	102
85.0	42	43	25	19	20	36	40	49	69	51
87.5	21	20	14	9	8	14	15	13	15	15
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	833	833	833	833	833	833	833	833	833	833
2.5	837	836	834	828	827	825	821	818	817	813
5.0	845	841	836	825	816	807	797	787	781	777
7.5	857	852	842	823	805	789	771	756	748	741
10.0	876	867	854	825	797	770	747	730	722	718
12.5	901	890	871	831	790	755	731	718	719	722
15.0	932	917	895	838	784	741	721	723	736	748
17.5	968	949	922	848	776	731	724	742	770	792
20.0	1013	990	955	861	770	728	741	778	819	848
22.5	1069	1042	1000	880	766	736	772	827	879	917
25.0	1138	1107	1055	903	772	759	816	886	950	999
27.5	1221	1184	1119	928	784	795	873	954	1030	1081

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CANDELA TABULATION - (Cont.)

30.0	1316	1274	1201	958	810	843	933	1027	1108	1161
32.5	1422	1373	1286	991	848	899	995	1096	1182	1230
35.0	1541	1486	1375	1027	898	952	1050	1151	1234	1278
37.5	1671	1611	1470	1066	950	1002	1088	1181	1264	1301
40.0	1821	1741	1574	1105	999	1037	1106	1188	1257	1277
42.5	1972	1878	1676	1146	1037	1055	1100	1160	1202	1199
45.0	2138	2026	1779	1182	1063	1053	1069	1095	1104	1080
47.5	2333	2197	1887	1214	1071	1028	1012	1005	983	949
50.0	2568	2392	1999	1249	1070	984	941	903	859	823
52.5	2845	2612	2114	1284	1060	923	861	807	756	726
55.0	3183	2862	2226	1317	1043	857	784	734	679	649
57.5	3593	3138	2320	1335	1016	790	714	678	592	568
60.0	4033	3370	2350	1323	972	723	652	617	512	489
62.5	4396	3460	2234	1248	894	643	577	535	424	391
65.0	4462	3236	1898	1064	768	535	475	437	334	298
67.5	3956	2572	1345	790	584	413	367	336	249	227
70.0	2817	1662	815	520	421	310	281	248	196	186
72.5	1414	844	490	338	298	230	215	193	159	144
75.0	485	365	304	236	216	182	169	148	111	90
77.5	218	195	197	175	163	146	125	92	73	72
80.0	130	114	115	136	130	108	77	69	75	83
82.5	79	61	57	105	99	63	57	64	124	118
85.0	40	29	30	70	41	40	44	64	126	102
87.5	13	8	9	12	12	14	17	25	60	38
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

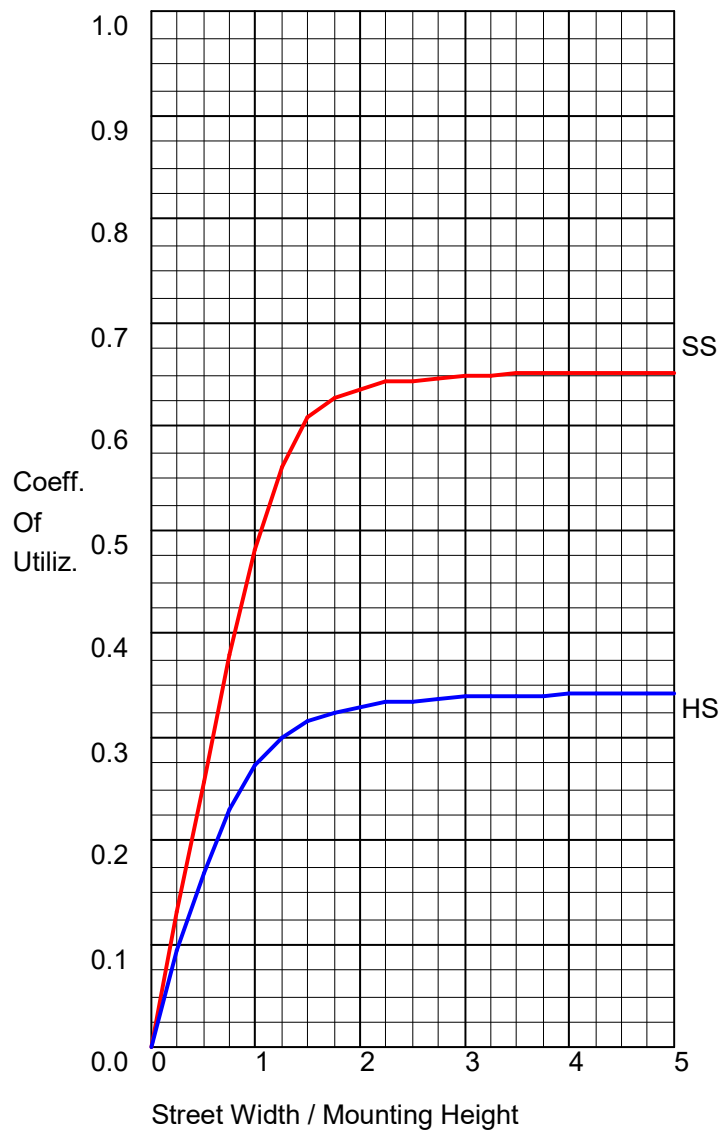
	175	180
0.0	833	833
2.5	814	814
5.0	776	776
7.5	739	739
10.0	717	718
12.5	723	724
15.0	755	755
17.5	804	803
20.0	866	865
22.5	942	946
25.0	1024	1030
27.5	1109	1114
30.0	1189	1194
32.5	1252	1258
35.0	1296	1301
37.5	1308	1312
40.0	1275	1278
42.5	1188	1191
45.0	1059	1068
47.5	925	919
50.0	796	796
52.5	707	707
55.0	628	626
57.5	548	546
60.0	464	462
62.5	370	366
65.0	279	276

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CANDELA TABULATION - (Cont.)

67.5	222	222
70.0	189	189
72.5	152	156
75.0	104	115
77.5	87	102
80.0	103	112
82.5	125	127
85.0	102	104
87.5	25	25
90.0	0	0

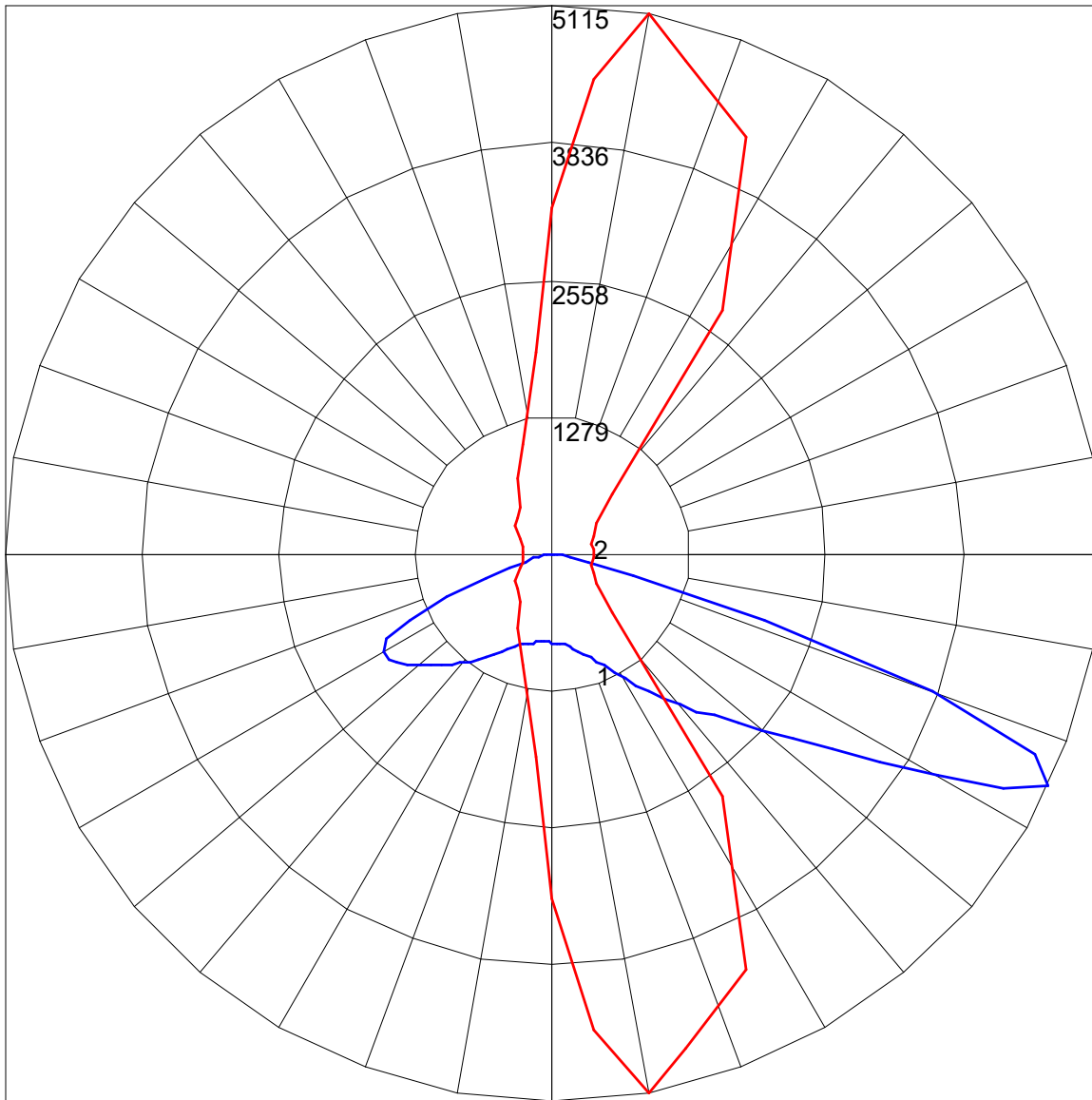
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

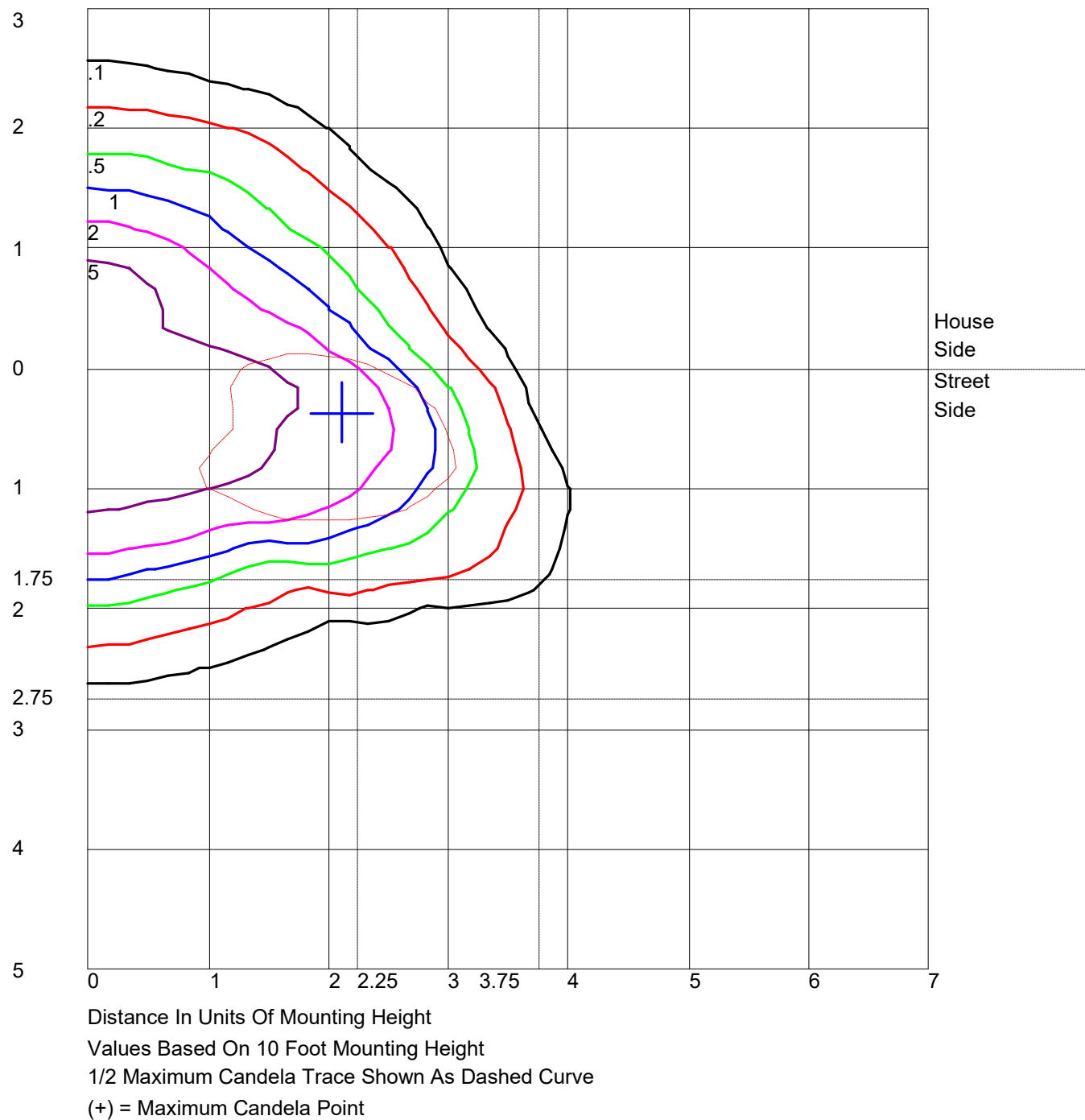
	Lumens	Percent Of Luminaire
Downward Street Side	3957.2	65.4
Downward House Side	2094.3	34.6
Downward Total	6051.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	6051.5	100.0

POLAR GRAPH

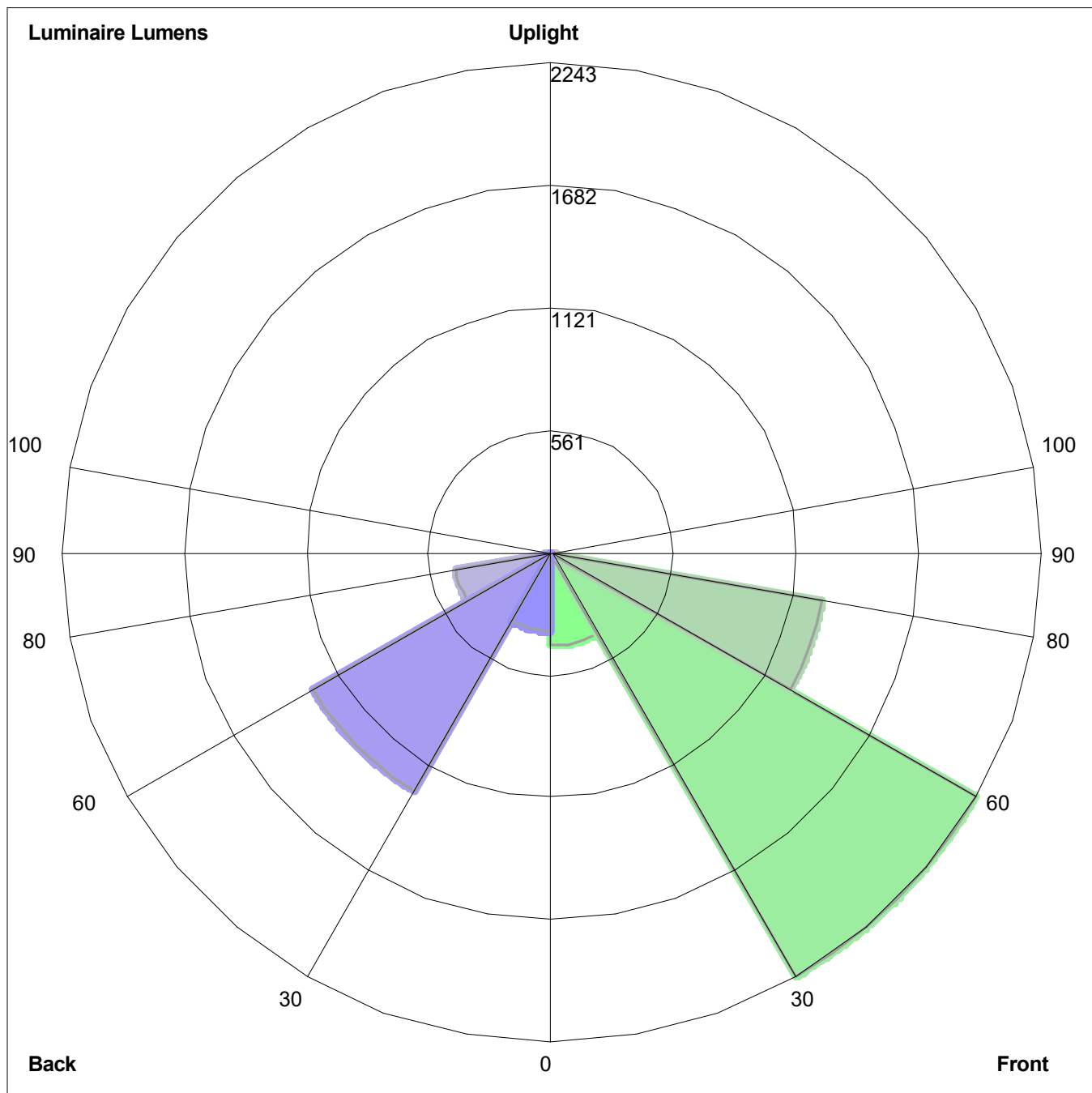


Maximum Candela = 5115 Located At Horizontal Angle = 80, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=427.6, Medium=2242.8, High=1260.9, Very High=25.8
Back: Low=361.5, Medium=1257.1, High=444.0, Very High=31.7
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1