



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-2-LED-05L-30.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-30
[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	5269
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	39.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4453
Maximum Candela Angle	80H 65V
Maximum Candela (<90 Degrees Vertical)	4453
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	314 (6.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	372.3	N.A.	7.1
FM - Front-Medium (30-60)	1952.7	N.A.	37.1
FH - Front-High (60-80)	1097.9	N.A.	20.8
FVH - Front-Very High (80-90)	22.5	N.A.	0.4
BL - Back-Low (0-30)	314.7	N.A.	6.0
BM - Back-Medium (30-60)	1094.6	N.A.	20.8
BH - Back-High (60-80)	386.7	N.A.	7.3
BVH - Back-Very High (80-90)	27.6	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	5269.0	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	725	725	725	725	725	725	725	725	725	725
2.5	741	743	742	741	741	739	737	733	730	728
5.0	758	760	760	760	758	755	751	746	741	737
7.5	772	773	773	773	772	771	767	762	754	750
10.0	783	785	785	787	788	789	785	782	772	768
12.5	794	795	797	801	807	809	809	807	798	792
15.0	798	801	804	814	825	834	837	836	828	820
17.5	803	805	813	826	842	858	868	872	863	855
20.0	807	810	820	839	860	884	908	916	905	895
22.5	815	818	833	855	880	910	944	965	956	945
25.0	831	834	849	874	904	940	984	1022	1020	1008
27.5	858	862	876	902	934	972	1026	1087	1099	1082
30.0	902	907	917	941	974	1012	1074	1157	1184	1167
32.5	968	974	981	998	1026	1062	1129	1227	1275	1265
35.0	1061	1067	1068	1076	1097	1128	1193	1297	1374	1368
37.5	1180	1187	1188	1186	1190	1214	1269	1371	1480	1486
40.0	1327	1332	1332	1321	1313	1328	1364	1446	1596	1609
42.5	1482	1497	1492	1487	1479	1474	1481	1523	1702	1735
45.0	1610	1622	1624	1644	1670	1673	1635	1618	1811	1869
47.5	1672	1676	1689	1742	1833	1903	1872	1753	1943	2035
50.0	1633	1642	1670	1759	1926	2115	2165	1937	2106	2235
52.5	1502	1506	1552	1679	1919	2250	2504	2197	2305	2476
55.0	1280	1281	1325	1482	1770	2243	2815	2562	2570	2781
57.5	1003	1000	1040	1172	1484	2056	3042	3003	2877	3170
60.0	720	713	721	819	1100	1678	3114	3434	3276	3619
62.5	495	488	478	532	710	1170	2926	3726	3771	4138
65.0	345	336	334	360	435	670	2413	3738	4160	4453
67.5	232	238	241	261	304	403	1624	3324	4179	4246
70.0	166	173	176	195	230	283	932	2458	3542	3284
72.5	100	104	113	142	176	217	506	1570	2247	1805
75.0	55	60	57	80	113	168	292	958	1014	687
77.5	45	52	42	48	64	110	188	570	489	290
80.0	44	49	37	36	45	74	106	314	260	154
82.5	45	46	30	25	29	52	57	154	137	89
85.0	37	37	22	16	17	31	35	43	60	45
87.5	18	17	12	8	7	12	13	11	13	13
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	725	725	725	725	725	725	725	725	725	725
2.5	729	728	726	721	720	719	715	712	711	708
5.0	736	732	728	719	710	703	694	686	680	677
7.5	746	741	733	717	701	687	671	658	651	645
10.0	762	755	743	719	694	670	650	635	629	625
12.5	784	775	759	723	687	657	636	625	626	629
15.0	812	798	779	730	683	645	628	630	641	651
17.5	843	826	803	739	676	636	631	646	670	689
20.0	882	862	832	750	670	634	645	677	713	739
22.5	931	907	870	766	667	641	672	720	765	798
25.0	991	964	919	786	672	661	710	772	827	869
27.5	1063	1031	975	808	683	692	760	831	897	942

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CANDELA TABULATION - (Cont.)

30.0	1145	1109	1046	834	705	734	813	894	964	1011
32.5	1238	1196	1120	863	739	783	867	954	1029	1071
35.0	1342	1294	1198	894	782	829	914	1002	1074	1113
37.5	1454	1402	1280	928	827	872	947	1028	1101	1133
40.0	1585	1516	1370	962	869	903	963	1034	1094	1112
42.5	1717	1636	1459	997	903	919	958	1010	1047	1044
45.0	1861	1764	1549	1029	925	917	931	954	961	941
47.5	2031	1913	1643	1057	932	895	881	875	856	826
50.0	2236	2083	1741	1088	932	857	819	786	748	717
52.5	2477	2275	1840	1118	923	804	750	703	658	632
55.0	2771	2492	1938	1146	908	746	683	639	591	565
57.5	3128	2733	2020	1162	885	687	622	591	516	495
60.0	3511	2935	2046	1152	847	630	568	538	446	426
62.5	3828	3012	1945	1087	778	559	503	466	369	340
65.0	3885	2818	1653	926	668	466	413	380	291	260
67.5	3445	2240	1171	687	508	359	320	293	217	197
70.0	2453	1447	709	453	367	270	245	216	171	162
72.5	1231	735	427	294	260	200	187	168	138	125
75.0	422	318	265	206	188	158	147	129	97	79
77.5	190	170	172	153	142	127	109	80	64	63
80.0	113	100	101	119	113	94	67	60	65	72
82.5	69	53	49	91	86	55	49	56	108	102
85.0	35	26	27	61	36	35	38	56	110	89
87.5	11	7	8	10	10	12	15	22	52	33
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

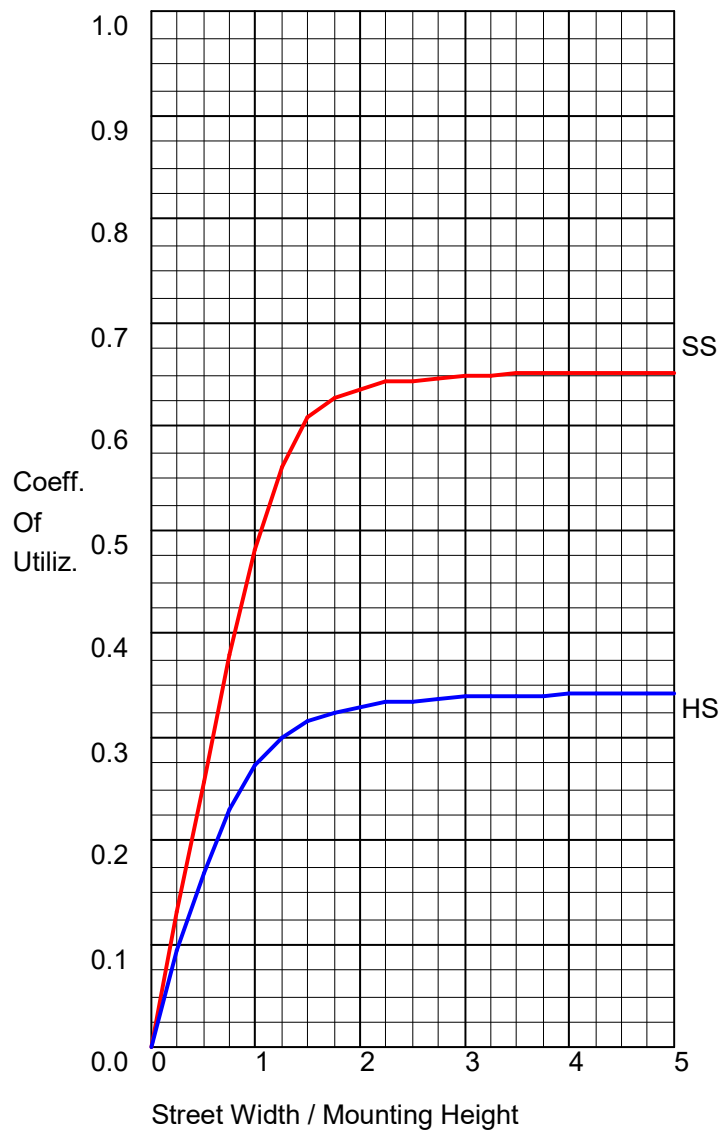
	175	180
0.0	725	725
2.5	709	709
5.0	676	676
7.5	644	644
10.0	624	625
12.5	630	631
15.0	657	657
17.5	700	699
20.0	754	753
22.5	820	824
25.0	891	897
27.5	965	970
30.0	1035	1039
32.5	1090	1095
35.0	1128	1133
37.5	1139	1143
40.0	1110	1113
42.5	1034	1037
45.0	922	930
47.5	805	800
50.0	693	693
52.5	615	615
55.0	547	545
57.5	477	475
60.0	404	402
62.5	322	319
65.0	243	240

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CANDELA TABULATION - (Cont.)

67.5	193	193
70.0	165	165
72.5	133	136
75.0	91	101
77.5	76	89
80.0	90	98
82.5	109	111
85.0	89	91
87.5	22	22
90.0	0	0

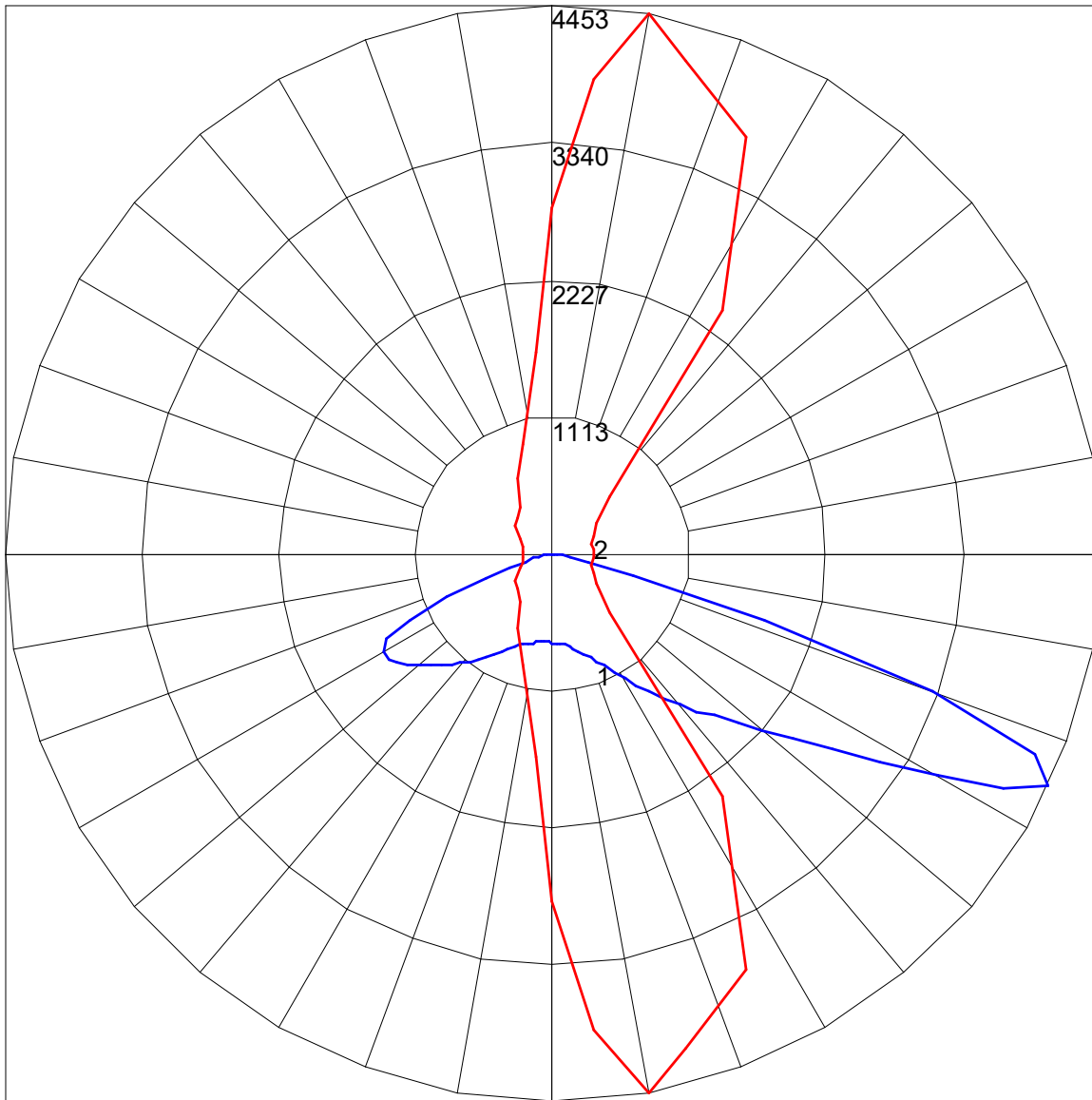
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

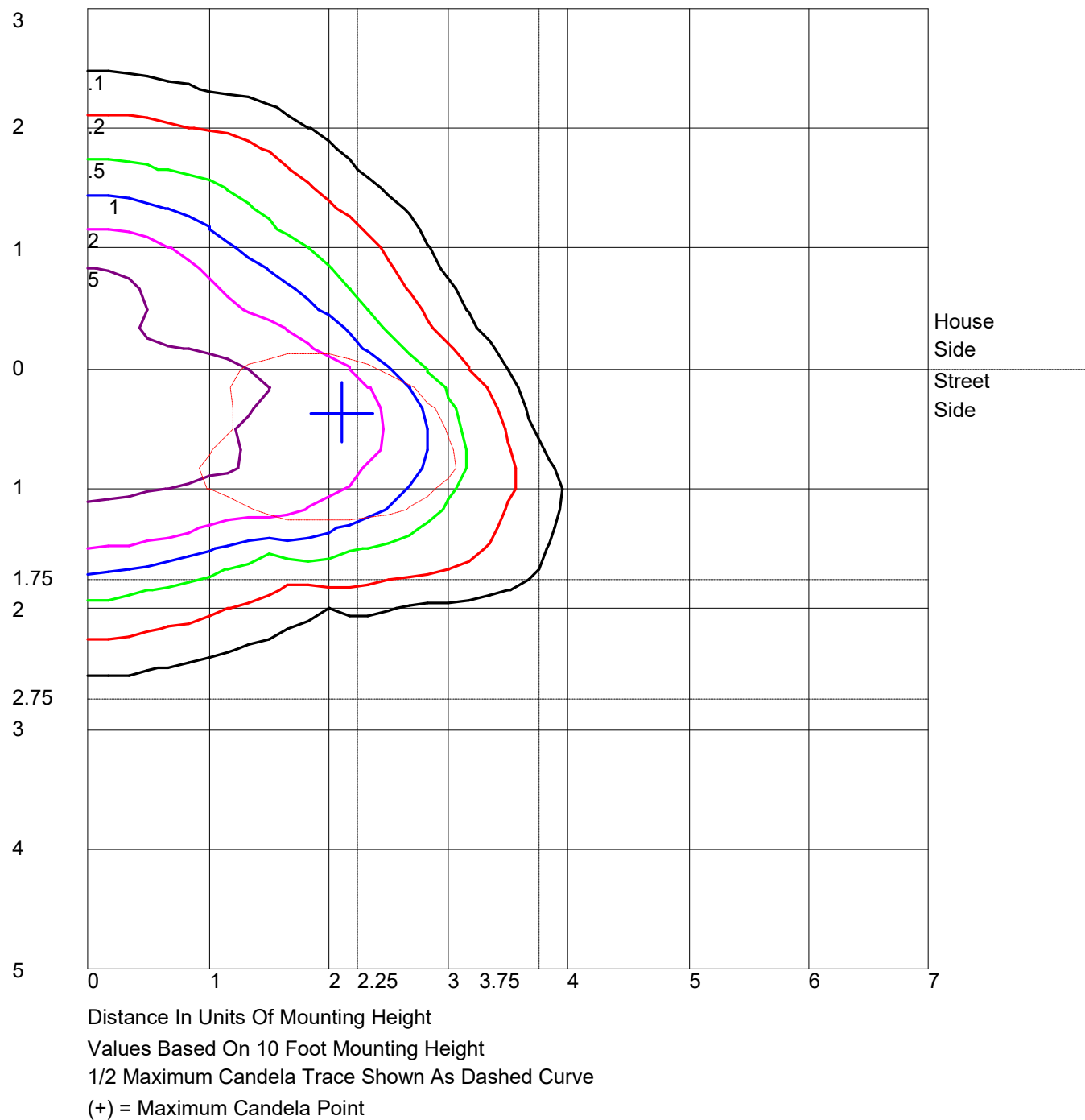
	Lumens	Percent Of Luminaire
Downward Street Side	3445.5	65.4
Downward House Side	1823.6	34.6
Downward Total	5269.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5269.1	100.0

POLAR GRAPH

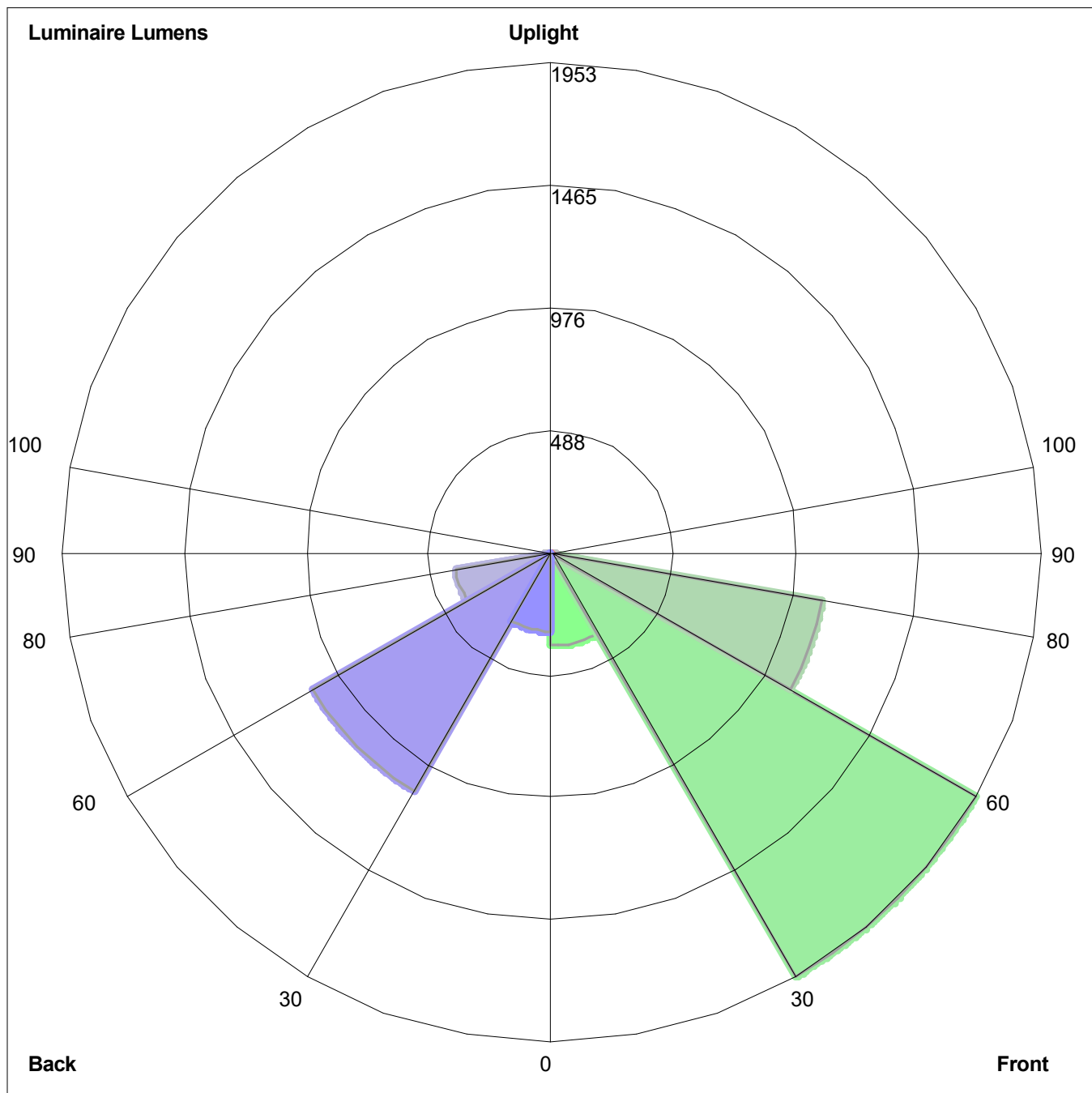


Maximum Candela = 4453 Located At Horizontal Angle = 80, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=372.3, Medium=1952.7, High=1097.9, Very High=22.5
Back: Low=314.7, Medium=1094.6, High=386.7, Very High=27.6
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1