



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-2-LED-05L-30-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
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-2-LED-05L-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3995
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3639
Maximum Candela Angle	75H 65V
Maximum Candela (<90 Degrees Vertical)	3639
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	222 (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)	389.0	N.A.	9.7
FM - Front-Medium (30-60)	1896.0	N.A.	47.5
FH - Front-High (60-80)	940.2	N.A.	23.5
FVH - Front-Very High (80-90)	16.3	N.A.	0.4
BL - Back-Low (0-30)	256.1	N.A.	6.4
BM - Back-Medium (30-60)	381.6	N.A.	9.6
BH - Back-High (60-80)	114.6	N.A.	2.9
BVH - Back-Very High (80-90)	1.3	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	3995.1	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	736	736	736	736	736	736	736	736	736	736
2.5	750	749	752	751	749	748	746	741	741	734
5.0	771	764	766	768	766	763	762	757	752	744
7.5	782	780	783	783	784	782	782	774	772	762
10.0	794	792	797	799	801	804	803	798	790	784
12.5	812	809	813	815	824	826	826	826	818	813
15.0	824	822	828	836	846	852	856	854	847	846
17.5	836	838	847	855	868	883	891	890	889	886
20.0	857	862	868	882	895	915	924	936	935	926
22.5	890	893	904	916	933	948	969	986	982	977
25.0	933	936	946	957	971	991	1017	1037	1040	1036
27.5	980	983	990	1009	1028	1046	1063	1094	1102	1097
30.0	1042	1046	1057	1068	1092	1111	1132	1157	1166	1166
32.5	1114	1117	1126	1147	1166	1188	1201	1222	1239	1243
35.0	1190	1189	1208	1231	1261	1278	1283	1295	1312	1319
37.5	1271	1272	1286	1317	1354	1379	1373	1379	1396	1410
40.0	1352	1355	1372	1412	1461	1491	1488	1479	1495	1510
42.5	1418	1427	1452	1507	1574	1618	1610	1590	1598	1643
45.0	1466	1475	1515	1578	1668	1747	1752	1716	1731	1762
47.5	1484	1479	1529	1622	1741	1873	1926	1874	1881	1909
50.0	1433	1426	1485	1603	1790	1984	2103	2083	2078	2103
52.5	1307	1310	1370	1500	1743	2066	2305	2321	2317	2345
55.0	1115	1115	1186	1331	1609	2062	2496	2573	2582	2616
57.5	865	871	948	1085	1372	1949	2627	2855	2903	2940
60.0	585	591	661	798	1077	1702	2654	3154	3244	3272
62.5	322	333	386	493	725	1349	2544	3317	3502	3540
65.0	173	174	205	271	431	971	2242	3232	3639	3607
67.5	105	109	118	162	256	612	1726	2831	3415	3339
70.0	69	69	75	100	165	349	1163	2158	2616	2483
72.5	46	47	49	65	112	223	681	1370	1547	1397
75.0	27	28	29	38	72	164	333	818	763	629
77.5	15	16	16	20	41	113	175	449	389	308
80.0	13	13	13	14	19	63	103	189	222	181
82.5	14	14	13	14	16	26	48	68	130	112
85.0	11	11	10	11	13	20	23	32	58	54
87.5	7	6	6	6	7	12	15	20	20	20
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	736	736	736	736	736	736	736	736	736	736
2.5	741	738	739	734	730	730	728	726	727	729
5.0	751	746	741	733	730	724	719	716	709	709
7.5	763	755	756	739	730	718	709	703	698	694
10.0	783	777	766	745	733	716	705	692	683	677
12.5	809	798	789	758	737	716	693	677	669	661
15.0	839	826	810	774	745	709	682	668	657	653
17.5	874	856	843	788	746	706	674	655	637	618
20.0	918	897	875	812	751	699	663	624	551	487
22.5	965	943	915	836	754	697	636	513	406	325
25.0	1018	987	952	858	761	681	534	378	250	176
27.5	1079	1048	1005	882	762	634	410	229	149	122

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CANDELA TABULATION - (Cont.)

30.0	1146	1107	1052	900	766	535	276	146	115	104
32.5	1219	1176	1110	922	744	421	172	117	101	94
35.0	1296	1247	1163	942	683	292	130	103	93	87
37.5	1385	1324	1231	964	590	186	111	93	85	78
40.0	1478	1413	1294	977	473	136	99	85	75	66
42.5	1593	1510	1372	972	328	115	89	76	62	51
45.0	1712	1612	1452	939	203	102	80	63	48	37
47.5	1855	1739	1530	860	146	92	69	49	34	26
50.0	2037	1882	1627	736	120	80	57	36	24	18
52.5	2247	2060	1728	568	103	68	42	24	16	12
55.0	2498	2245	1814	375	91	56	30	16	10	7
57.5	2770	2433	1874	242	83	43	20	10	6	5
60.0	3021	2539	1877	185	78	33	13	5	3	2
62.5	3191	2553	1751	148	72	25	7	2	1	1
65.0	3155	2402	1467	119	61	17	4	1	1	1
67.5	2698	1925	1038	91	43	11	2	1	1	0
70.0	1809	1204	571	64	27	6	1	1	1	0
72.5	836	586	266	47	16	3	1	1	0	0
75.0	322	257	126	29	8	2	1	0	0	0
77.5	165	148	71	16	4	1	0	0	0	0
80.0	106	92	45	7	2	0	0	0	0	0
82.5	69	49	25	3	1	0	0	0	0	0
85.0	39	25	10	1	0	0	0	0	0	0
87.5	14	6	1	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

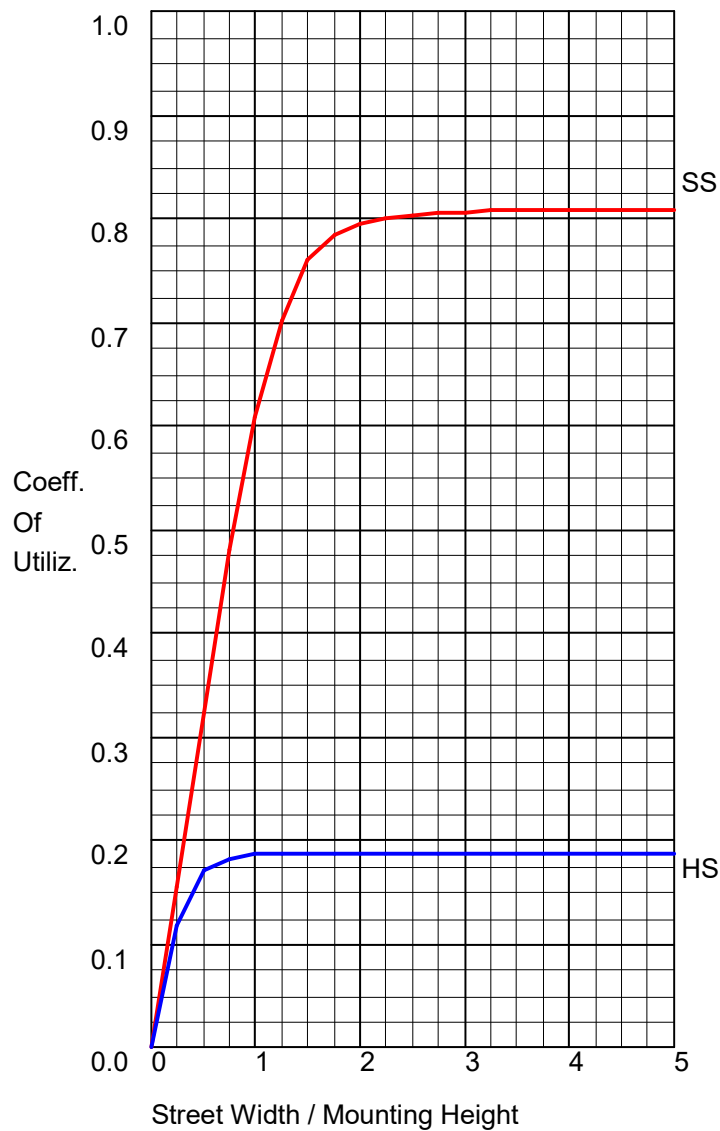
	<u>175.0</u>	<u>180.0</u>
0.0	736	736
2.5	723	723
5.0	709	707
7.5	691	687
10.0	673	670
12.5	659	659
15.0	645	643
17.5	595	589
20.0	447	442
22.5	277	272
25.0	153	151
27.5	113	112
30.0	100	99
32.5	91	90
35.0	82	82
37.5	73	72
40.0	61	60
42.5	47	45
45.0	33	32
47.5	23	22
50.0	16	15
52.5	10	10
55.0	6	6
57.5	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

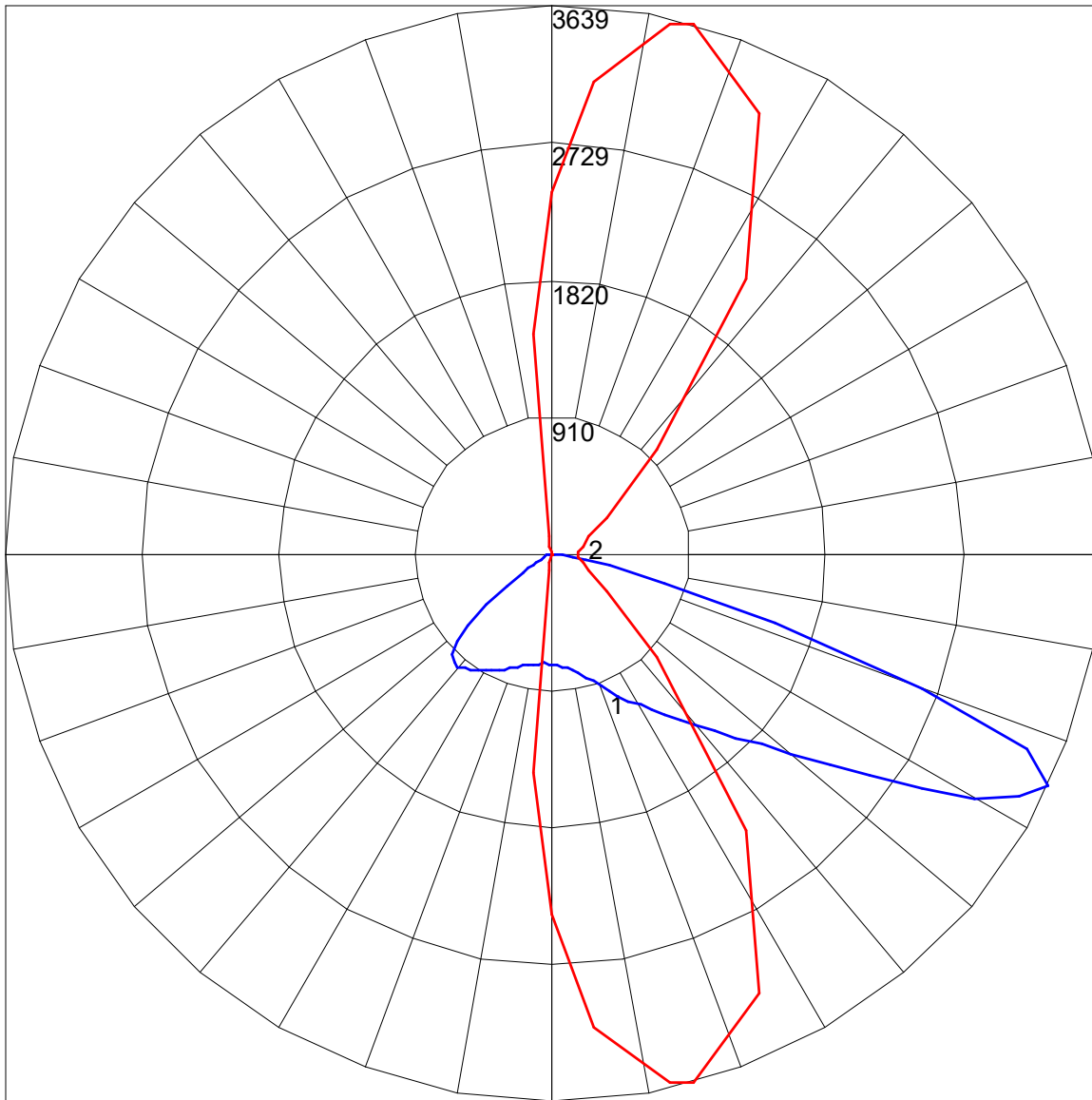
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

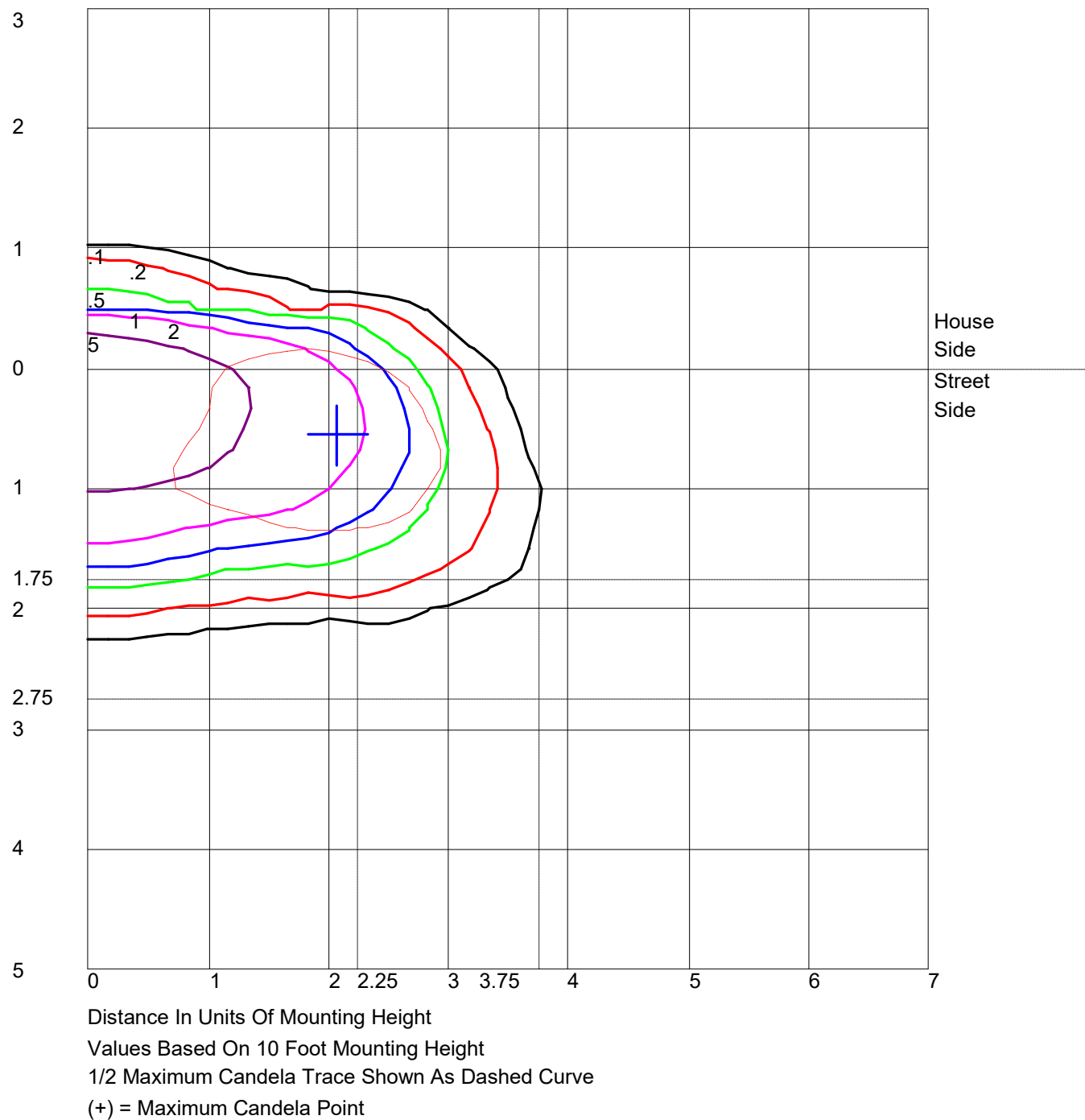
	Lumens	Percent Of Luminaire
Downward Street Side	3241.5	81.1
Downward House Side	753.6	18.9
Downward Total	3995.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3995.1	100.0

POLAR GRAPH

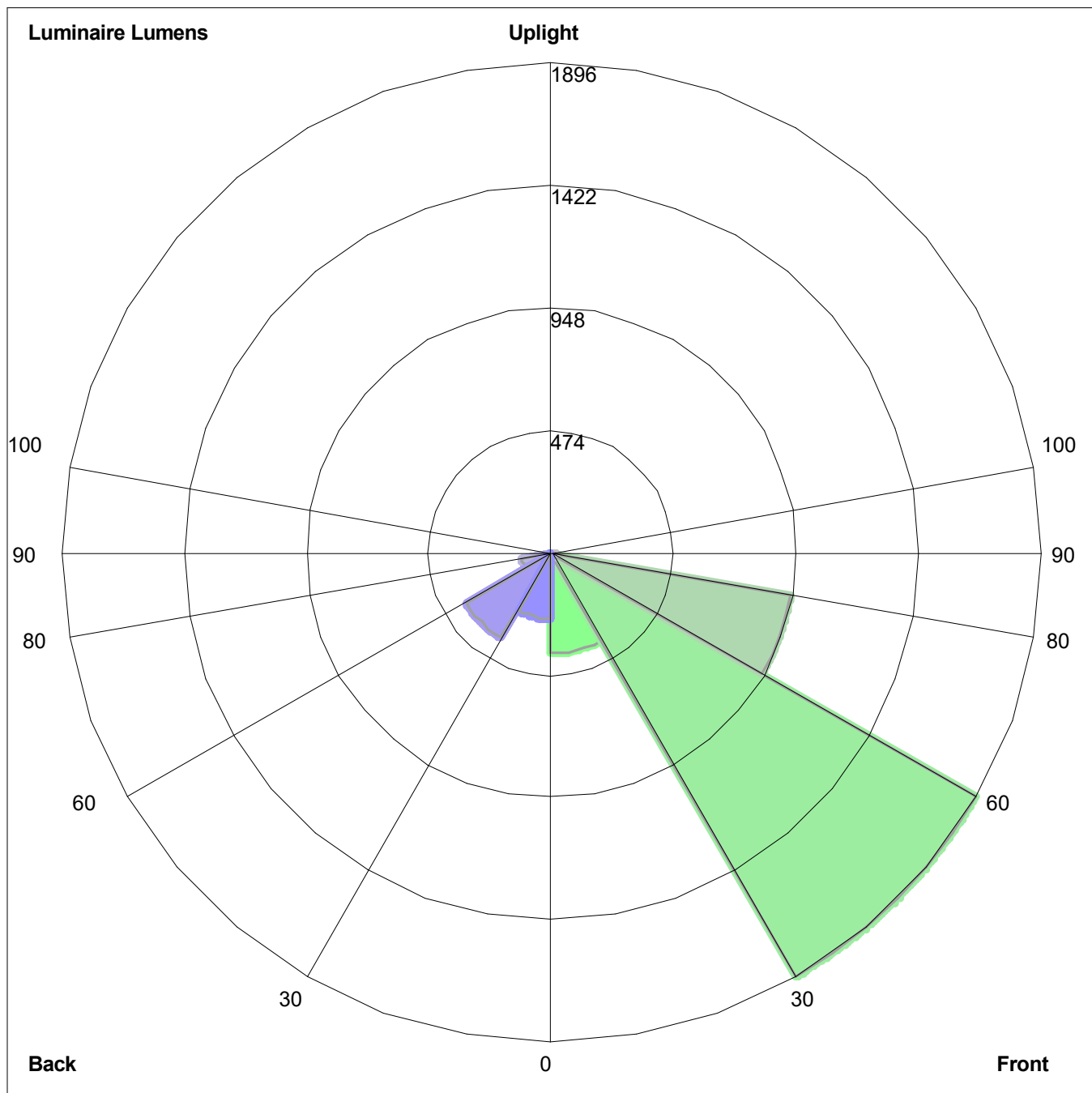


Maximum Candela = 3639 Located At Horizontal Angle = 75, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=389.0, Medium= 1896.0, High=940.2, Very High=16.3
Back: Low=256.1, Medium=381.6, High=114.6, Very High=1.3
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1