IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-3-50-70CRI.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12570
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/05/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-25L-SIL-3-50-70CRI
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] SCALED FROM ORIGINAL TEST DATA
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor
[_SEARCH_COLORTEMP] 5000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	26572
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	19862
Maximum Candela Angle	50H 65V
Maximum Candela (<90 Degrees Vertical)	19862
Maximum Candela Angle (<90 Degrees Vertical)	50H 65V
Maximum Candela At 90 Degrees Vertical	391 (1.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1508 (5.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1037.6	N.A.	3.9
FM - Front-Medium (30-60)	9926.9	N.A.	37.4
FH - Front-High (60-80)	7969.2	N.A.	30.0
FVH - Front-Very High (80-90)	313.4	N.A.	1.2
BL - Back-Low (0-30)	949.0	N.A.	3.6
BM - Back-Medium (30-60)	3303.4	N.A.	12.4
BH - Back-High (60-80)	1786.7	N.A.	6.7
BVH - Back-Very High (80-90)	283.4	N.A.	1.1
UL - Uplight-Low (90-100)	300.1	N.A.	1.1
UH - Uplight-High (100-180)	702.3	N.A.	2.6
Total	26572.0	N.A.	100.0
BUG Rating	B3-U4-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	50	55	65	75
0.0	1601	1601	1601	1601	1601	1601	1601	1601	1601	1601
2.5	1627	1626	1636	1649	1647	1641	1627	1639	1619	1608
5.0	1562	1566	1577	1623	1650	1659	1655	1667	1663	1654
7.5	1545	1556	1527	1556	1559	1566	1589	1632	1664	1669
10.0	1521	1518	1539	1549	1574	1587	1593	1587	1658	1688
12.5	1559	1583	1589	1594	1593	1590	1606	1631	1642	1803
15.0	1612	1618	1639	1635	1687	1670	1662	1687	1764	1848
17.5	1795	1799	1835	1795	1808	1870	1885	1833	1906	1938
20.0	1986	2018	2060	2049	2134	2047	2092	2131	2125	2089
22.5	2424	2467	2521	2513	2486	2481	2424	2436	2407	2410
25.0	3089	3163	3047	2990	3058	2941	2902	2822	2835	2689
27.5	3945	4036	3931	3787	3606	3626	3423	3334	3229	3029
30.0	4902	4987	4894	4547	4375	4177	4085	3897	3584	3487
32.5	5514	5525	5523	5505	5142	4867	4583	4500	4024	3758
35.0	6117	6041	6031	6111	6082	5587	5283	5016	4381	4033
37.5	6688	6631	6583	6708	6775	6499	6058	5579	4834	4254
40.0	7423	7299	7303	7401	7471	7343	6886	6157	5257	4391
42.5	8239	8090	8155	8314	8241	8029	7759	6875	5610	4614
45.0	9278	9176	9295	9443	9223	8701	8400	7718	5807	4835
47.5	10550	10593	10627	10857	10478	9512	9053	8354	6223	5139
50.0	11955	12005	11978	12336	11951	10605	9853	8913	6823	5631
52.5	13650	13752	13502	13735	13447	12112	10898	9696	7702	6226
55.0	15406	15594	15554	15676	15237	13645	12303	10765	8824	6709
57.5	15275	15294	15841	17206	17470	15633	13909	12422	9906	7516
60.0	13735	13759	14348	16332	18479	17978	16410	14360	11443	8779
62.5	9696	10184	11681	14404	17131	19589	18938	16516	13069	10259
65.0	3800	4179	6031	10806	15316	18896	19862	18914	14911	11711
67.5	1759	1812	2477	4772	12209	17117	18898	19689	15546	11749
70.0	1284	1325	1614	2574	6081	14596	16815	18063	16131	10956
72.5	978	1006	1260	1817	3462	8623	12300	14250	14371	8179
75.0	735	768	1009	1454	2219	3768	5943	8390	8579	4613
77.5	563	598	803	1205	1636	2199	2548	2874	3304	1456
80.0	428	482	653	985	1242	1458	1508	1459	1219	956
82.5	333	393	539	818	913	944	921	937	846	755
85.0	304	382	425	617	640	676	602	588	593	599
87.5	204	251	316	439	368	432	401	378	407	451
90.0	98	120	177	208	241	273	284	296	321	346
92.5	115	123	179	208	238	274	278	291	316	335
95.0	131	127	182	211	238	271	276	284	313	321
97.5	143	130	182	213	238	266	274	274	300	272
100.0	151	134	181	214	237	262	269	263	275	214
102.5	155	139	179	214	237	257	262	252	240	172
105.0	158	145	176	215	236	250	250	230	205	158
107.5	160	151	172	215	233	238	229	202	172	149
110.0	161	154	168	214	228	217	203	175	149	143
112.5	160	157	164	211	218	194	177	155	133	137
115.0	160	158	161	203	202	173	158	143	124	132
117.5	160	159	158	190	182	157	147	135	119	129
120.0	160	158	153	171	166	148	139	129	117	126
122.5	157	155	144	154	154	142	134	126	116	122
125.0	151	149	136	141	146	137	131	125	116	120
127.5	143	141	130	131	139	134	131	126	118	121
130.0	135	133	127	125	134	134	132	127	120	123

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CANDELA TABULATION - (Cont.)

132.5	131	130	125	121	131	131	128	123	121	127
135.0	129	129	125	121	122	118	115	115	122	130
137.5	128	127	121	109	102	99	98	103	114	129
140.0	111	111	103	91	81	78	80	87	98	114
142.5	92	90	84	71	56	57	61	66	80	95
145.0	70	68	62	49	39	38	42	46	60	75
147.5	46	44	40	33	26	18	22	28	40	50
150.0	33	31	29	21	10	8	10	12	22	31
152.5	17	16	12	6	5	4	6	7	11	15
155.0	6	6	4	3	3	3	4	4	6	8
157.5	2	1	2	2	3	3	3	4	4	5
160.0	1	1	2	2	3	3	3	3	4	4
162.5	1	1	2	2	3	3	3	3	4	4
165.0	1	1	2	3	3	3	3	3	4	4
167.5	1	1	2	3	3	4	4	4	4	4
170.0	1	1	2	3	4	4	4	4	4	4
172.5	1	1	2	3	4	4	4	4	4	4
175.0	1	1	2	3	4	4	4	4	4	4
177.5	1	1	2	3	4	4	4	4	4	4
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Angles	**Horizontal Angles**									
	85	**90**	**95**	**105**	**115**	**125**	**135**	**145**	**155**	**165**
0.0	1601	1601	1601	1601	1601	1601	1601	1601	1601	1601
2.5	1597	1585	1582	1589	1584	1590	1591	1599	1611	1623
5.0	1610	1588	1592	1636	1704	1721	1717	1722	1707	1704
7.5	1649	1620	1626	1708	1745	1744	1717	1681	1633	1619
10.0	1681	1647	1660	1757	1781	1717	1707	1708	1730	1686
12.5	1795	1748	1794	1891	1806	1755	1746	1796	1766	1847
15.0	1893	1816	1865	1958	1892	1916	1869	1980	1968	2026
17.5	2003	1940	2016	2065	1983	2000	2139	2104	2093	2211
20.0	2189	2094	2158	2140	2127	2185	2180	2282	2292	2345
22.5	2473	2363	2362	2292	2221	2314	2333	2449	2421	2566
25.0	2688	2629	2536	2403	2375	2399	2473	2547	2609	2679
27.5	3014	2811	2800	2524	2405	2528	2595	2711	2726	2876
30.0	3257	3023	2987	2661	2492	2636	2710	2780	2860	3008
32.5	3415	3159	3094	2781	2540	2672	2716	2900	3071	3278
35.0	3591	3232	3122	2771	2533	2670	2772	3020	3217	3461
37.5	3669	3329	3154	2703	2478	2611	2826	3068	3279	3556
40.0	3745	3416	3124	2605	2425	2533	2841	3026	3281	3668
42.5	3929	3439	3124	2501	2311	2510	2760	2915	3313	3852
45.0	4022	3521	3144	2446	2181	2497	2653	2809	3532	3832
47.5	4224	3667	3143	2388	2077	2402	2555	2744	3855	3698
50.0	4467	3937	3224	2343	1985	2327	2487	2692	3936	3615
52.5	4911	4270	3440	2367	1928	2229	2401	2673	3837	3466
55.0	5408	4726	3824	2404	1891	2123	2303	2600	3692	3286
57.5	6203	5341	4319	2490	1874	2024	2183	2475	3503	3117
60.0	7289	6183	5034	2603	1834	1882	2058	2317	3206	2929
62.5	8025	6784	5411	2697	1752	1715	1921	2135	2780	2738
65.0	8419	6867	5163	2640	1618	1539	1790	1965	2318	2582
67.5	7719	5930	4102	2282	1470	1353	1614	1783	1950	2407
70.0	6436	4541	2669	1714	1253	1168	1431	1576	1689	2180
72.5	4205	2838	1471	1187	1010	989	1208	1348	1549	1823
75.0	1592	1168	945	854	823	821	949	1090	1209	1256
77.5	915	822	634	734	717	703	729	798	917	1021

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CANDELA TABULATION - (Cont.)

80.0	681	640	499	655	642	615	651	702	773	821
82.5	569	514	425	577	551	520	575	619	674	685
85.0	499	372	386	514	481	464	480	490	572	573
87.5	414	225	379	446	421	411	417	397	397	430
90.0	295	179	353	391	373	348	371	355	337	327
92.5	221	252	319	378	361	335	352	344	326	303
95.0	215	313	296	368	351	317	341	334	321	299
97.5	232	316	291	340	331	291	326	319	311	287
100.0	246	293	282	298	311	273	311	307	301	273
102.5	235	267	263	263	287	262	297	297	293	257
105.0	215	238	240	235	262	253	283	287	284	239
107.5	194	212	217	214	237	242	273	278	274	218
110.0	175	190	198	199	215	229	261	270	262	198
112.5	161	174	181	186	198	218	248	262	251	180
115.0	151	161	168	177	186	209	235	251	237	165
117.5	143	153	158	170	177	202	225	239	220	153
120.0	137	145	152	164	172	196	216	225	202	144
122.5	133	139	145	158	169	191	208	213	181	138
125.0	128	134	140	153	167	186	200	197	160	134
127.5	127	132	138	152	166	184	191	181	143	129
130.0	128	132	139	152	165	181	183	165	131	126
132.5	131	135	141	153	161	173	173	151	124	123
135.0	135	139	144	153	156	156	155	139	120	121
137.5	138	141	145	148	144	135	128	117	118	121
140.0	128	133	134	131	123	110	97	92	101	110
142.5	109	114	113	108	98	84	68	69	80	90
145.0	86	89	90	84	72	58	46	45	58	68
147.5	58	60	62	58	48	34	29	31	37	45
150.0	35	36	37	35	27	17	12	18	25	28
152.5	18	19	19	18	14	10	7	6	10	17
155.0	10	11	11	10	9	7	5	3	2	2
157.5	7	7	7	7	7	6	4	2	0	0
160.0	5	6	6	6	6	6	4	2	0	0
162.5	5	5	6	6	6	5	4	1	0	0
165.0	5	5	5	6	6	5	3	1	0	0
167.5	5	5	5	6	6	5	3	1	0	0
170.0	5	5	5	6	5	5	3	1	0	0
172.5	5	5	5	5	5	5	3	1	0	0
175.0	5	5	5	5	5	4	3	1	0	0
177.5	4	5	5	5	5	4	3	1	0	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Angles	**Horizontal Angles**	
	175	**180**
0.0	1601	1601
2.5	1620	1639
5.0	1670	1643
7.5	1619	1648
10.0	1714	1689
12.5	1873	1887
15.0	2017	1926
17.5	2175	2256
20.0	2346	2263
22.5	2560	2542
25.0	2694	2642

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CANDELA TABULATION - (Cont.)

27.5	2913	2940
30.0	3127	3080
32.5	3333	3310
35.0	3517	3516
37.5	3567	3586
40.0	3452	3434
42.5	3304	3263
45.0	3009	2974
47.5	2879	2826
50.0	2754	2691
52.5	2636	2566
55.0	2532	2442
57.5	2417	2304
60.0	2314	2144
62.5	2244	2011
65.0	2225	1922
67.5	2185	1845
70.0	2105	1828
72.5	1735	1708
75.0	1651	1788
77.5	1486	1596
80.0	1169	1220
82.5	841	864
85.0	805	797
87.5	424	351
90.0	234	168
92.5	185	133
95.0	184	156
97.5	181	176
100.0	177	192
102.5	175	199
105.0	174	200
107.5	172	195
110.0	170	188
112.5	166	179
115.0	162	170
117.5	158	161
120.0	153	155
122.5	149	151
125.0	144	146
127.5	139	140
130.0	133	134
132.5	127	128
135.0	124	124
137.5	122	122
140.0	115	115
142.5	95	95
145.0	73	74
147.5	51	51
150.0	31	31
152.5	19	20
155.0	2	2
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0

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CANDELA TABULATION - (Cont.)

167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	3	3

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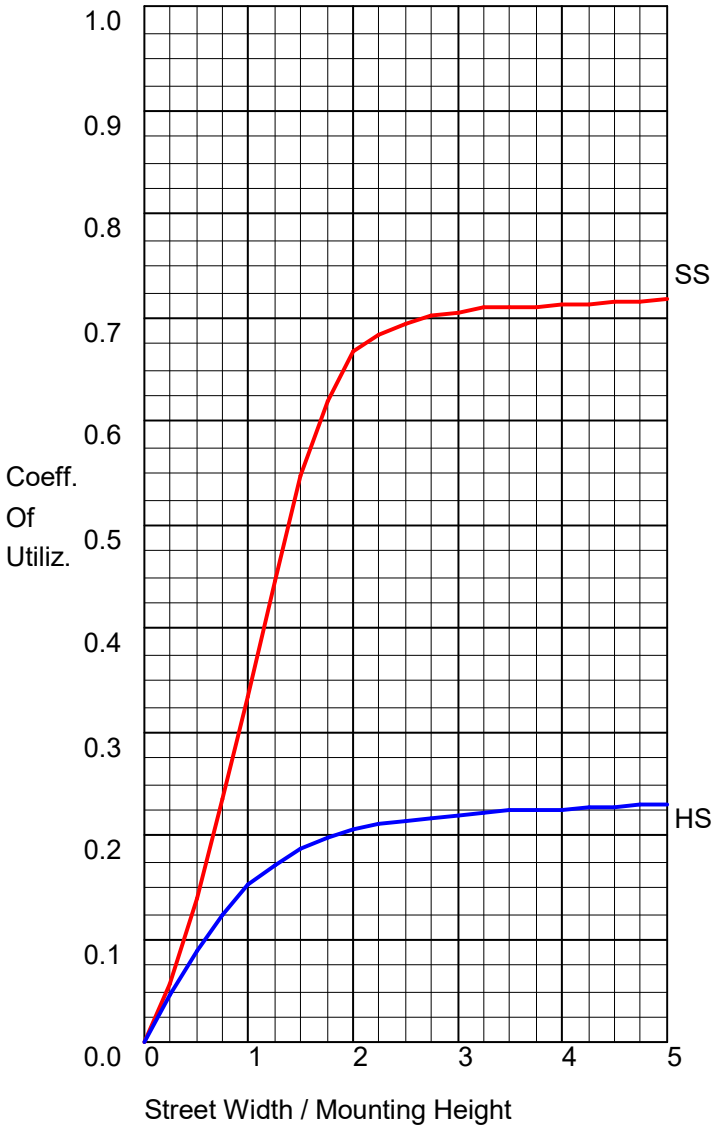
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	19247.0	72.4
Downward House Side	6322.6	23.8
Downward Total	25569.6	96.2
Upward Street Side	448.5	1.7
Upward House Side	553.9	2.1
Upward Total	1002.4	3.8
Total Flux	26572.0	100.0

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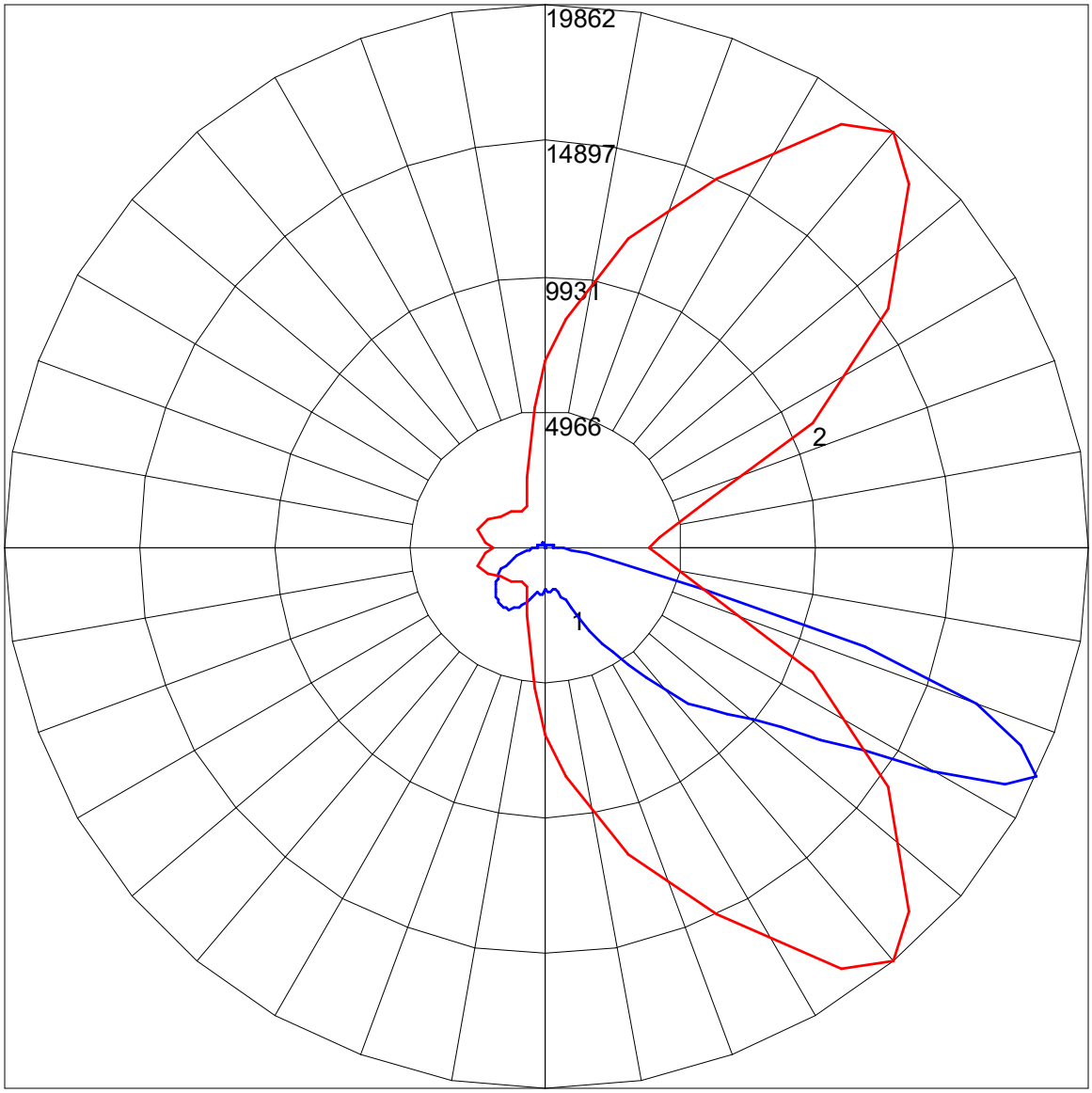
POLAR GRAPH



Maximum Candela = 19862 Located At Horizontal Angle = 50, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

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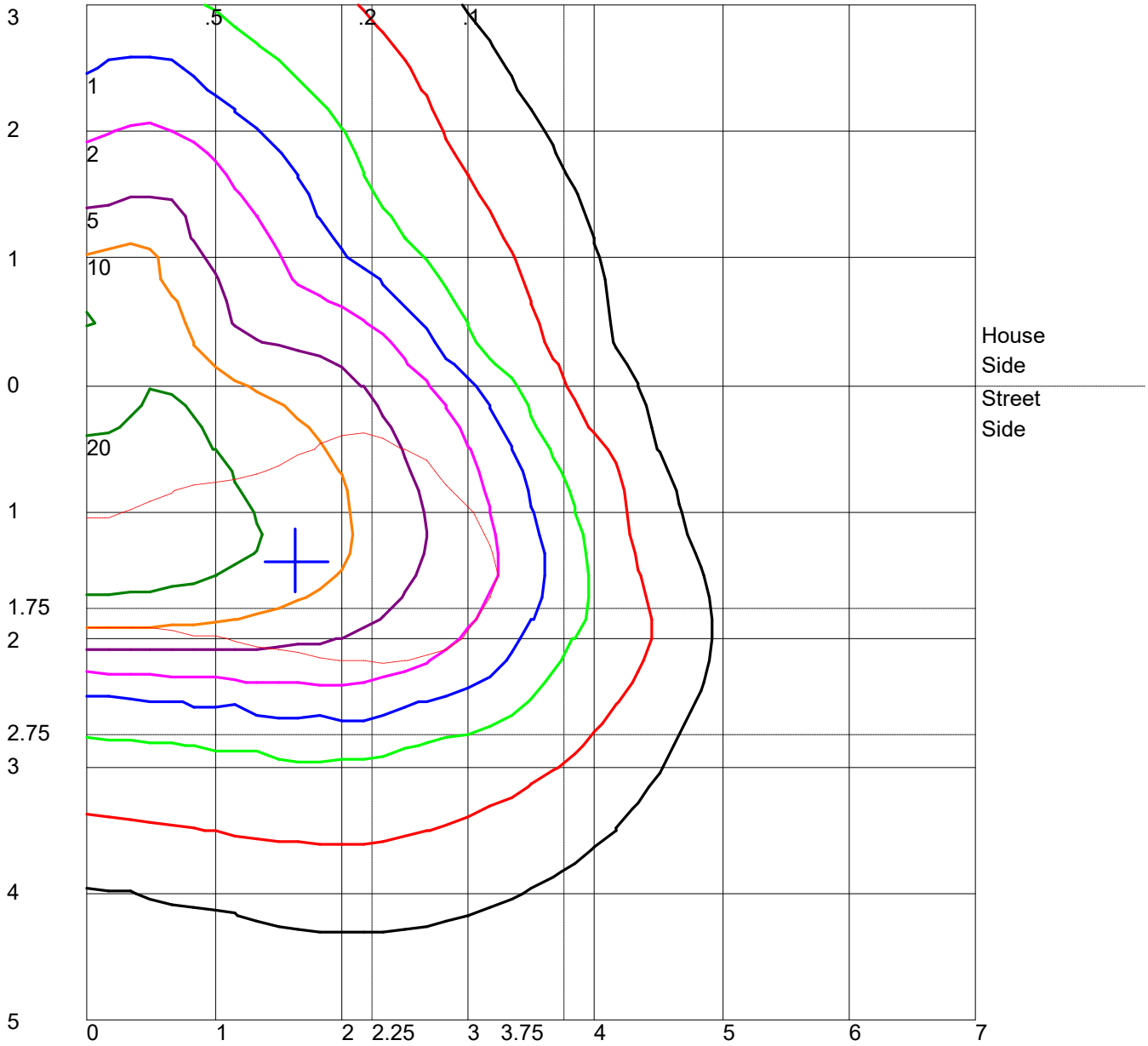
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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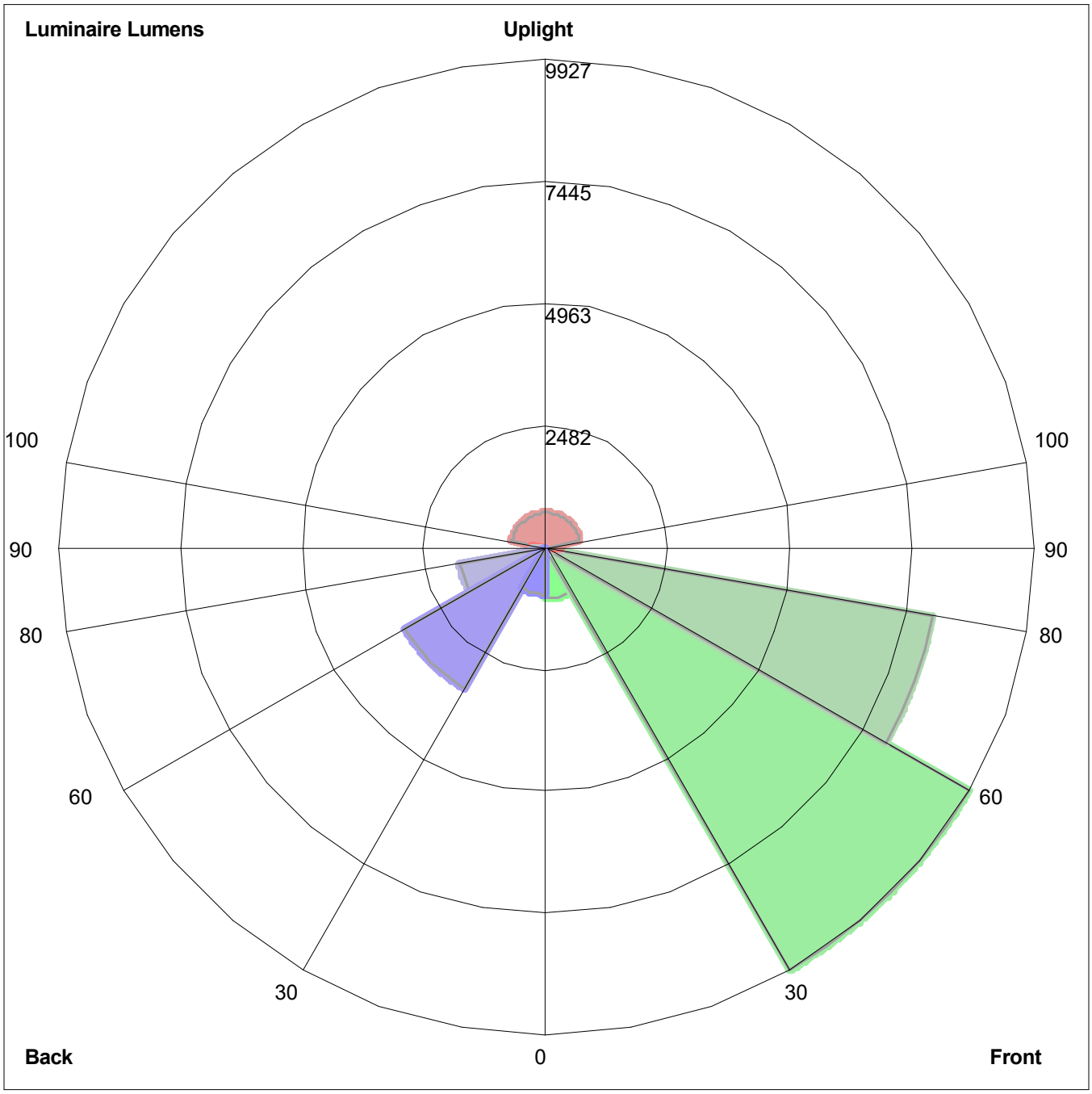
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1037.6, Medium=9926.9, High=7969.2, Very High=313.4
Back: Low=949.0, Medium=3303.4, High=1786.7, Very High=283.4
Uplight: Low=300.1, High=702.3

BUG Rating : B3-U4-G4

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