IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-FT-30-70CRI-IH.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12642
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/29/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-25L-SIL-FT-30-70CRI-IH
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[OTHER] SCALED FROM ORIGINAL TEST DATA
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor
[_SEARCH_COLORTEMP] 3000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18471
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	12249
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	12249
Maximum Candela Angle (<90 Degrees Vertical)	45H 67.5V
Maximum Candela At 90 Degrees Vertical	266 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1423 (7.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1173.1	N.A.	6.4
FM - Front-Medium (30-60)	7294.6	N.A.	39.5
FH - Front-High (60-80)	5958.6	N.A.	32.3
FVH - Front-Very High (80-90)	230.9	N.A.	1.2
BL - Back-Low (0-30)	760.5	N.A.	4.1
BM - Back-Medium (30-60)	1479.6	N.A.	8.0
BH - Back-High (60-80)	603.0	N.A.	3.3
BVH - Back-Very High (80-90)	132.9	N.A.	0.7
UL - Uplight-Low (90-100)	222.3	N.A.	1.2
UH - Uplight-High (100-180)	615.6	N.A.	3.3
Total	18471.1	N.A.	100.0
BUG Rating	B2-U4-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	42.5	45.0	55.0	65.0	75.0
0.0	1986	1986	1986	1986	1986	1986	1986	1986	1986	1986
2.5	2074	2082	2086	2079	2084	2075	2078	2059	2050	2045
5.0	1915	1889	1924	2030	2117	2141	2157	2148	2130	2090
7.5	1955	1957	1937	1965	1988	1942	1938	2019	2142	2118
10.0	1946	1927	1970	1992	1998	2005	2010	2042	2066	2179
12.5	2023	2094	2137	2103	2101	2081	2057	2082	2098	2346
15.0	2168	2164	2240	2178	2274	2247	2256	2250	2296	2353
17.5	2424	2399	2458	2445	2369	2402	2466	2418	2478	2508
20.0	2669	2709	2669	2634	2725	2575	2577	2681	2680	2643
22.5	2944	2932	3015	2968	2882	2872	2886	2825	2834	2873
25.0	3499	3439	3350	3191	3257	3143	3066	3019	3048	2957
27.5	3749	3818	3665	3632	3515	3496	3477	3261	3138	3164
30.0	4334	4367	4317	3977	3887	3821	3730	3509	3298	3290
32.5	4704	4704	4623	4503	4352	4210	4116	3819	3540	3426
35.0	5069	5036	4942	4827	4820	4684	4578	4095	3714	3501
37.5	5487	5395	5282	5197	5143	5179	5119	4474	3919	3554
40.0	5945	5810	5701	5624	5524	5597	5569	4888	4210	3592
42.5	6419	6336	6181	6120	6010	6072	5996	5487	4416	3643
45.0	6989	6922	6774	6710	6577	6577	6525	6041	4766	3991
47.5	7771	7647	7517	7430	7264	7167	7168	6624	5179	4344
50.0	8500	8430	8360	8312	8076	7968	7914	7307	5815	4715
52.5	8917	8924	8961	9164	8979	8801	8745	8199	6607	5208
55.0	9062	9118	9232	9702	9823	9705	9638	9076	7493	5621
57.5	9068	9153	9369	10019	10449	10624	10430	9920	8284	5872
60.0	8996	9103	9430	10249	10855	11231	11134	10719	8823	6258
62.5	8617	8759	9283	10426	11177	11551	11721	11312	9073	6995
65.0	6917	7093	8039	10024	11544	11968	12146	11196	9104	7139
67.5	4651	4690	5782	8203	11230	12209	12249	10615	8984	6902
70.0	2479	2746	3689	5667	8910	10904	11101	9892	8217	5906
72.5	1306	1454	2478	3629	5598	7243	7905	8687	6466	3861
75.0	938	1004	1920	2814	3759	4549	4825	5466	3404	1836
77.5	726	774	1119	1919	2755	2643	2700	2907	1900	1125
80.0	548	593	800	1028	1359	1404	1423	1420	1001	802
82.5	430	469	621	772	709	566	527	446	429	579
85.0	342	365	487	467	305	262	256	264	296	352
87.5	183	196	231	193	181	196	201	214	233	267
90.0	74	86	122	144	167	183	189	203	218	237
92.5	84	91	126	148	171	188	194	205	223	238
95.0	94	96	129	152	173	189	196	205	225	234
97.5	105	102	132	156	175	190	197	203	220	201
100.0	114	108	134	159	178	191	196	199	205	151
102.5	121	113	136	162	180	191	195	192	180	130
105.0	127	120	138	165	180	189	192	178	156	119
107.5	131	126	140	169	182	187	185	158	135	119
110.0	135	132	142	171	181	178	173	140	118	118
112.5	139	136	143	171	175	164	156	129	110	115
115.0	143	141	145	169	165	150	143	122	107	113
117.5	145	144	145	161	154	140	134	117	105	112
120.0	147	147	142	151	144	133	130	115	104	110
122.5	147	145	137	141	137	130	126	112	105	108
125.0	144	142	132	133	133	128	124	113	106	108
127.5	138	137	131	130	131	126	124	115	108	108
130.0	135	134	130	127	130	127	126	117	109	112

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CANDELA TABULATION - (Cont.)

132.5	133	132	129	127	130	127	124	113	110	115
135.0	133	133	131	127	123	116	113	106	110	117
137.5	133	132	126	115	106	99	96	95	104	115
140.0	118	117	108	96	84	78	76	80	89	102
142.5	96	96	88	76	61	58	57	62	72	85
145.0	73	72	65	53	42	41	40	43	54	65
147.5	48	48	44	36	28	21	20	25	36	46
150.0	35	34	31	22	9	7	8	12	19	28
152.5	17	15	11	6	4	4	4	7	11	14
155.0	5	5	3	2	2	3	3	4	7	9
157.5	1	1	2	2	2	2	3	3	4	6
160.0	1	1	1	2	2	2	2	3	4	4
162.5	0	1	1	2	2	2	2	3	3	4
165.0	1	1	2	2	2	2	3	3	4	4
167.5	1	1	1	2	2	2	2	3	3	4
170.0	1	1	1	2	2	2	2	3	3	4
172.5	1	1	2	2	2	3	3	3	4	4
175.0	1	1	2	2	2	3	3	3	4	4
177.5	1	1	2	2	2	3	3	3	3	4
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Angles	**Horizontal Angles**									
	85.0	**90.0**	**95.0**	**105.0**	**115.0**	**125.0**	**135.0**	**145.0**	**155.0**	**165.0**
0.0	1986	1986	1986	1986	1986	1986	1986	1986	1986	1986
2.5	2030	2010	2001	1958	1942	1937	1929	1927	1933	1936
5.0	2079	2014	1983	1961	2057	2098	2085	2075	2073	2048
7.5	2100	2066	2005	2053	2104	2129	2097	1995	1887	1861
10.0	2191	2129	2042	2136	2105	2048	1922	1915	1846	1842
12.5	2380	2303	2188	2288	2148	1974	1889	1839	1799	1796
15.0	2513	2418	2298	2411	2136	2014	1870	1851	1786	1708
17.5	2664	2586	2515	2532	2249	2044	1954	1742	1558	1460
20.0	2804	2735	2697	2569	2315	2022	1782	1520	1361	1231
22.5	3035	2924	2915	2673	2298	1998	1581	1337	1114	1020
25.0	3117	3097	3028	2741	2269	1817	1386	1108	979	907
27.5	3298	3209	3184	2833	2185	1602	1190	1004	873	822
30.0	3381	3280	3283	2940	2042	1414	1084	903	819	786
32.5	3406	3288	3275	2899	1849	1264	994	846	781	818
35.0	3410	3276	3312	2758	1621	1163	928	808	808	848
37.5	3447	3297	3336	2612	1417	1072	877	817	817	917
40.0	3507	3372	3327	2442	1287	996	858	803	856	1039
42.5	3485	3353	3346	2249	1207	935	855	793	916	1300
45.0	3629	3354	3414	2093	1117	939	848	776	983	1327
47.5	3695	3488	3335	1975	1025	969	823	751	1014	841
50.0	3863	3631	3336	1950	983	959	794	717	868	589
52.5	4133	3714	3421	1924	984	929	754	688	695	496
55.0	4431	3923	3483	1968	1012	853	695	637	562	449
57.5	4530	3881	3430	1851	947	743	604	572	490	421
60.0	4704	4043	3445	1829	794	595	510	492	437	392
62.5	4940	4070	3402	1788	589	470	433	428	395	360
65.0	4853	3989	3181	1523	452	406	392	387	356	327
67.5	4485	3607	2775	1016	397	375	366	356	318	300
70.0	3625	2696	1906	629	372	354	343	317	291	332
72.5	2111	1552	1107	409	346	336	314	296	341	413
75.0	1028	922	693	354	325	307	292	306	302	283
77.5	687	629	397	335	301	281	278	264	255	258

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CANDELA TABULATION - (Cont.)

80.0	539	470	312	319	277	270	277	253	241	236
82.5	436	365	251	299	267	261	263	251	239	231
85.0	357	240	235	277	259	243	261	251	240	229
87.5	294	119	258	268	253	240	262	253	242	229
90.0	202	106	249	266	254	242	265	256	245	229
92.5	134	189	231	272	263	247	271	263	252	235
95.0	132	234	221	268	261	236	268	263	256	241
97.5	175	232	213	250	248	215	253	253	252	236
100.0	184	218	207	226	234	206	243	245	246	229
102.5	178	201	197	203	221	203	234	238	240	218
105.0	166	183	182	184	205	200	226	232	235	205
107.5	155	168	171	171	190	195	220	229	230	192
110.0	144	156	159	161	177	189	215	226	225	178
112.5	135	146	150	154	165	183	209	223	218	163
115.0	130	138	142	150	158	180	204	219	211	153
117.5	124	132	136	146	154	176	198	212	201	145
120.0	121	128	132	143	150	173	193	204	187	142
122.5	117	123	128	139	149	170	187	194	172	138
125.0	114	119	125	136	148	167	182	184	157	136
127.5	114	118	124	136	148	166	177	173	145	135
130.0	116	120	126	137	147	165	171	162	136	134
132.5	118	122	128	138	145	159	163	151	130	132
135.0	123	126	131	139	141	144	149	141	128	132
137.5	125	129	132	135	132	125	125	122	127	132
140.0	115	119	121	120	112	104	95	98	110	123
142.5	98	102	103	98	90	79	69	74	88	101
145.0	76	79	79	75	65	56	48	52	66	78
147.5	52	55	55	52	44	36	32	37	45	55
150.0	32	33	34	32	25	16	15	24	31	36
152.5	17	18	17	16	12	10	9	10	18	24
155.0	11	11	11	10	9	7	5	6	6	9
157.5	7	7	7	7	7	6	5	4	3	2
160.0	5	6	6	6	6	6	4	3	2	1
162.5	5	5	6	6	6	5	4	3	2	0
165.0	5	5	6	6	6	5	4	3	2	0
167.5	5	5	5	6	6	5	4	3	1	0
170.0	5	5	5	6	5	5	4	3	1	0
172.5	5	5	5	5	5	5	4	3	1	0
175.0	5	5	5	5	5	4	4	2	1	0
177.5	5	5	5	5	5	4	3	2	1	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Angles	**Horizontal Angles**	
	175.0	**180.0**
0.0	1986	1986
2.5	1944	1950
5.0	2045	2066
7.5	1836	1836
10.0	1827	1865
12.5	1781	1769
15.0	1649	1691
17.5	1422	1413
20.0	1167	1164
22.5	975	963
25.0	864	859

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CANDELA TABULATION - (Cont.)

27.5	818	817
30.0	793	794
32.5	842	846
35.0	898	899
37.5	989	995
40.0	1138	1161
42.5	1407	1348
45.0	829	792
47.5	602	598
50.0	515	512
52.5	465	466
55.0	430	434
57.5	398	401
60.0	364	367
62.5	332	335
65.0	305	311
67.5	286	291
70.0	362	363
72.5	408	347
75.0	253	234
77.5	228	191
80.0	196	144
82.5	179	115
85.0	164	99
87.5	158	103
90.0	149	100
92.5	147	117
95.0	152	142
97.5	150	159
100.0	147	171
102.5	146	176
105.0	149	178
107.5	154	176
110.0	157	171
112.5	158	166
115.0	157	161
117.5	156	157
120.0	153	155
122.5	150	152
125.0	148	149
127.5	144	145
130.0	140	141
132.5	137	137
135.0	134	134
137.5	133	133
140.0	129	130
142.5	108	109
145.0	84	85
147.5	60	60
150.0	38	39
152.5	27	27
155.0	12	12
157.5	2	2
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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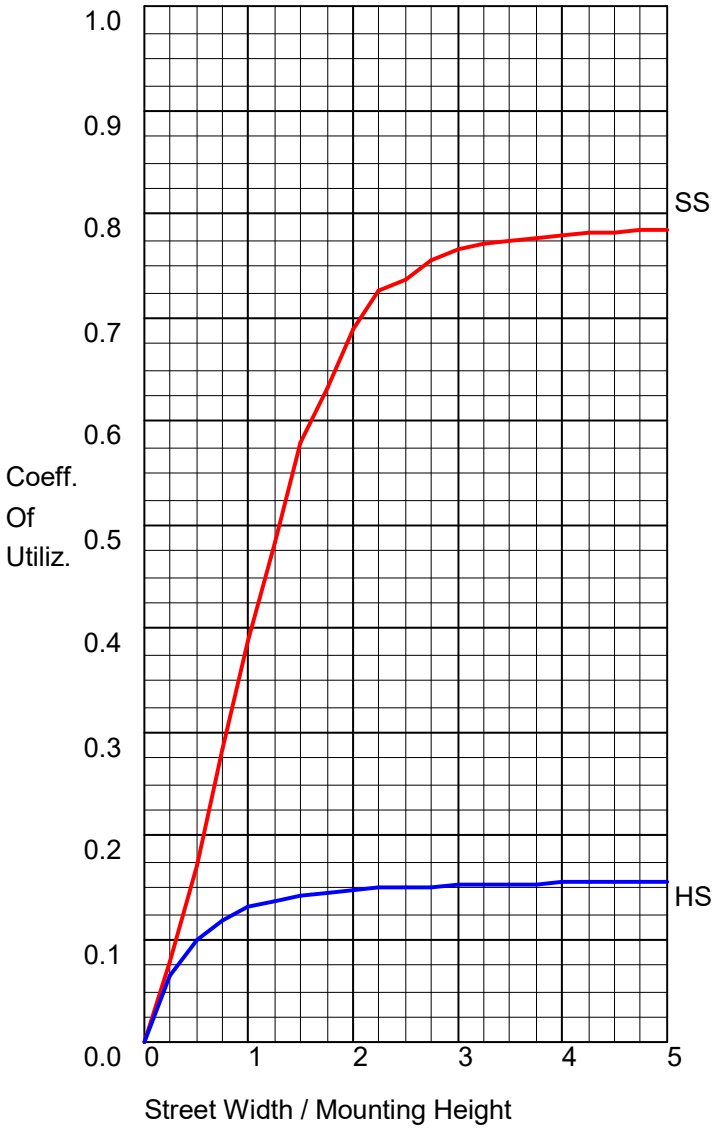
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	14657.1	79.4
Downward House Side	2976.0	16.1
Downward Total	17633.1	95.5
Upward Street Side	368.1	2.0
Upward House Side	469.9	2.5
Upward Total	838.0	4.5
Total Flux	18471.1	100.0

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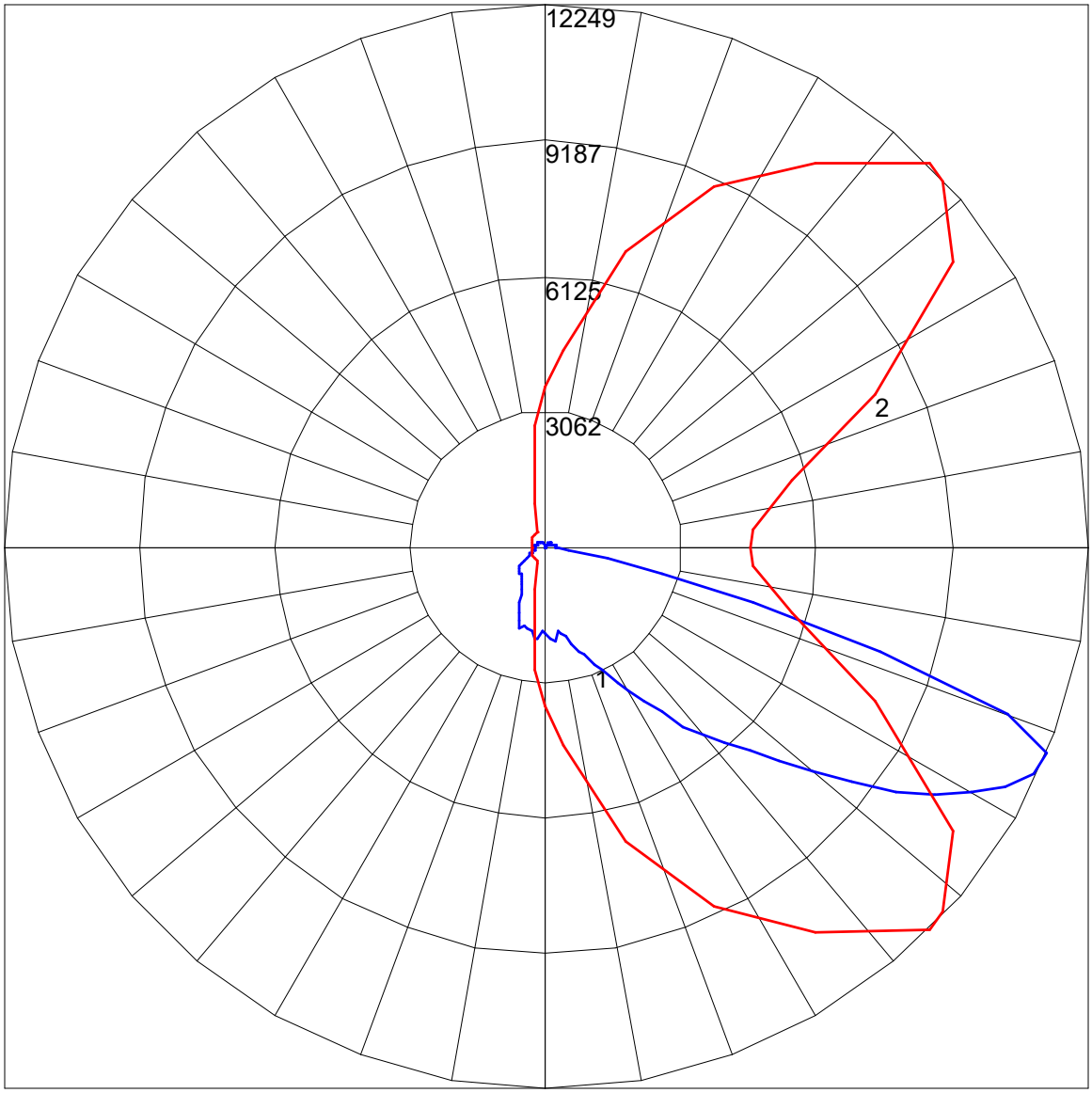
POLAR GRAPH



Maximum Candela = 12249 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

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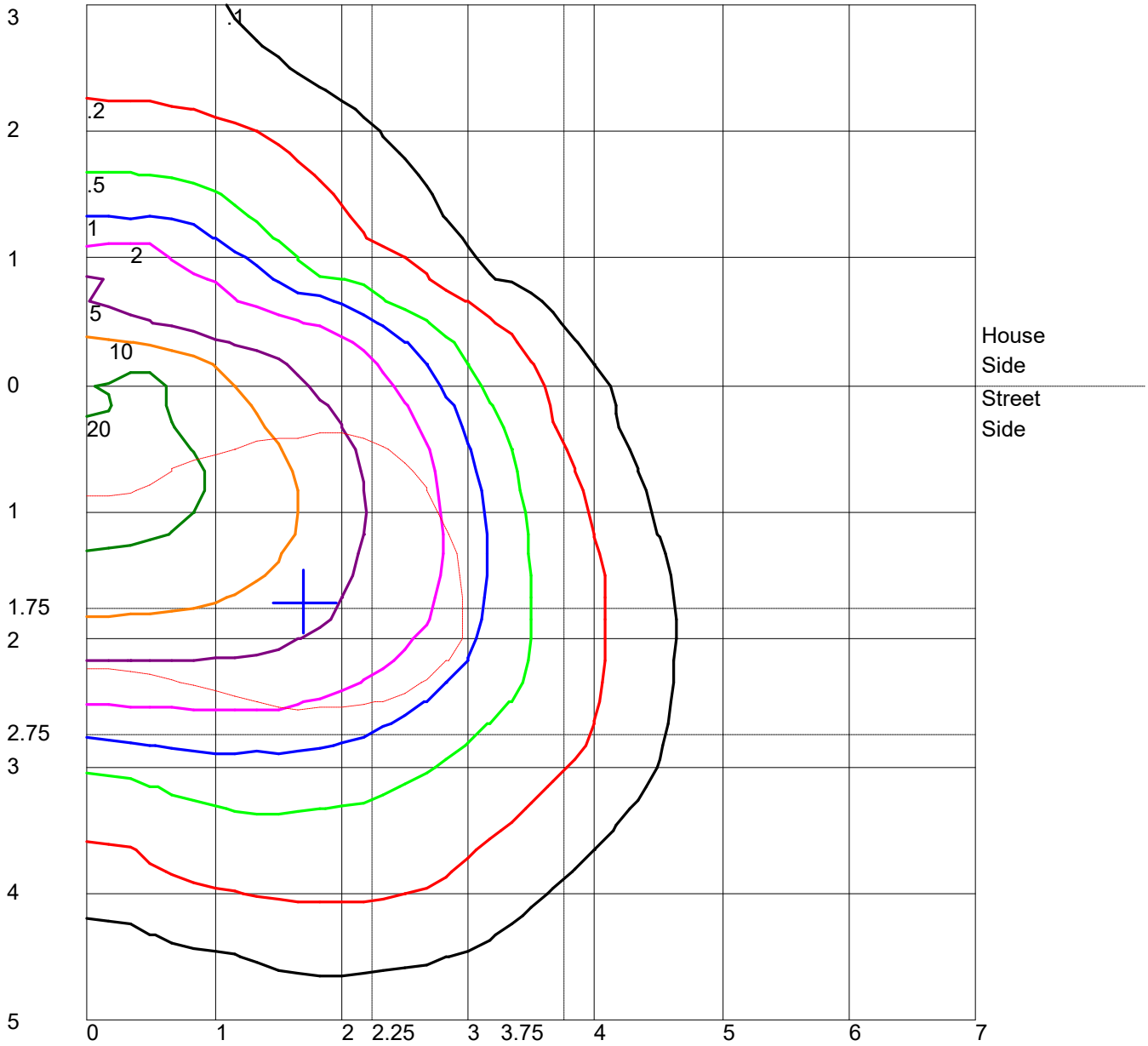
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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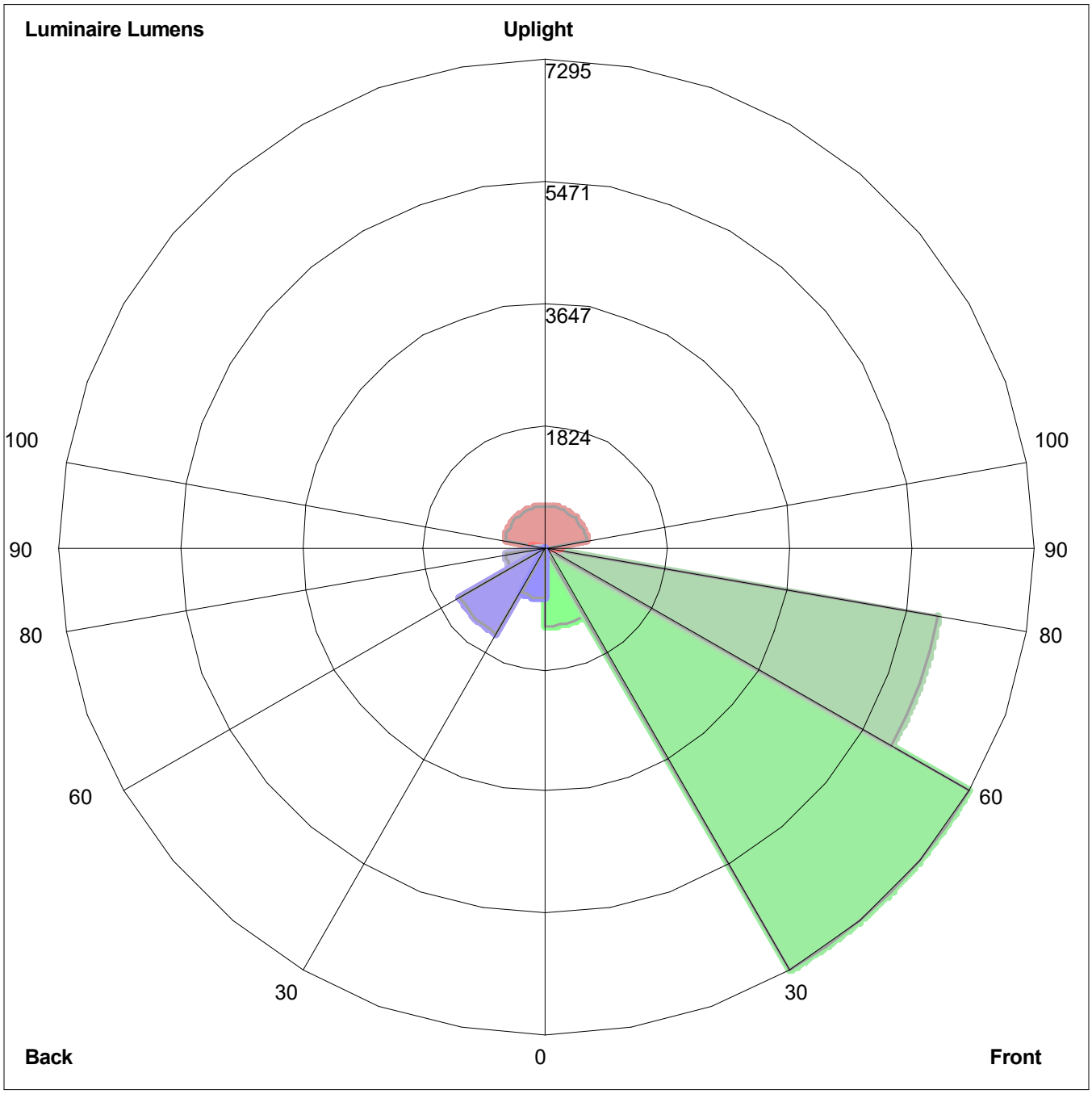
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1173.1, Medium=7294.6, High=5958.6, Very High=230.9
Back: Low=760.5, Medium=1479.6, High=603.0, Very High=132.9
Uplight: Low=222.3, High=615.6

BUG Rating : B2-U4-G3

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