IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-2-30-70CRI-IH.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12637
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/26/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-25L-SIL-2-30-70CRI-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17416
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	13563
Maximum Candela Angle	72.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	13563
Maximum Candela Angle (<90 Degrees Vertical)	72.5H 62.5V
Maximum Candela At 90 Degrees Vertical	298 (1.7% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1150 (6.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1339.5	N.A.	7.7
FM - Front-Medium (30-60)	9027.8	N.A.	51.8
FH - Front-High (60-80)	3407.9	N.A.	19.6
FVH - Front-Very High (80-90)	157.3	N.A.	0.9
BL - Back-Low (0-30)	636.6	N.A.	3.7
BM - Back-Medium (30-60)	1344.9	N.A.	7.7
BH - Back-High (60-80)	503.4	N.A.	2.9
BVH - Back-Very High (80-90)	137.0	N.A.	0.8
UL - Uplight-Low (90-100)	246.0	N.A.	1.4
UH - Uplight-High (100-180)	615.7	N.A.	3.5
Total	17416.1	N.A.	100.0
BUG Rating	B2-U4-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	72.5	75.0
0.0	1843	1843	1843	1843	1843	1843	1843	1843	1843	1843
2.5	1819	1803	1811	1824	1821	1815	1794	1792	1801	1801
5.0	1963	1953	1990	1960	1964	1960	1977	1937	1828	1807
7.5	1824	1830	1837	1890	1948	2011	2015	1984	1971	1926
10.0	2019	2017	1962	2060	2021	1981	2006	2026	2029	2058
12.5	2156	2166	2096	2087	2156	2110	2055	2166	2264	2284
15.0	2285	2404	2357	2358	2329	2216	2342	2280	2431	2420
17.5	2696	2590	2654	2524	2597	2608	2495	2543	2625	2682
20.0	2919	2938	2989	2868	2834	2806	2885	2865	2854	2890
22.5	3478	3504	3494	3264	3346	3139	3218	3223	3169	3163
25.0	3933	3959	3952	3857	3694	3689	3627	3621	3573	3593
27.5	5024	4974	4841	4427	4390	4176	4179	4144	4114	4061
30.0	5905	6003	5756	5426	5121	5045	4861	4721	4691	4702
32.5	6671	6673	6654	6420	6216	5829	5744	5500	5459	5471
35.0	6420	6431	6509	6776	7103	6977	6820	6482	6204	6033
37.5	6514	6403	6378	6530	7168	7676	7906	7483	6931	6701
40.0	6994	6804	6683	6715	7139	7943	8281	8778	7637	7446
42.5	7472	7231	7050	7080	7431	8209	8459	9504	8634	8311
45.0	7623	7416	7234	7328	7766	8562	9066	9665	9627	9615
47.5	7435	7272	7100	7339	7955	9010	9740	9647	10467	10490
50.0	6967	6828	6690	7055	7903	9416	10311	10025	11285	11271
52.5	6191	6072	5959	6516	7564	9541	10762	10864	11855	11952
55.0	5221	5082	4999	5623	6901	9316	11151	11866	12522	12597
57.5	4062	4042	3959	4475	5758	8530	11236	12621	12783	12950
60.0	2906	2905	2908	3287	4259	7081	10635	12669	12899	13153
62.5	1724	1747	1829	2142	2821	4989	9403	12365	13563	13322
65.0	1082	1103	1195	1376	1729	2851	7521	10765	12990	12954
67.5	738	737	770	965	1201	1530	4826	8427	10878	11092
70.0	638	640	656	718	893	1040	2639	6134	8288	8676
72.5	503	499	532	593	727	802	1367	3926	5415	5739
75.0	353	356	388	445	583	675	874	2205	3397	3577
77.5	229	252	289	332	433	556	668	1352	2066	2027
80.0	135	164	209	244	328	436	517	772	1150	1148
82.5	103	130	172	192	231	303	393	476	665	720
85.0	78	107	153	175	200	234	273	334	416	457
87.5	78	104	150	171	193	220	244	268	293	306
90.0	83	103	148	169	190	214	230	249	263	267
92.5	97	108	152	174	195	218	229	250	264	269
95.0	113	113	157	180	202	224	229	254	268	272
97.5	129	118	160	184	204	224	225	251	256	250
100.0	138	124	162	187	205	223	220	238	225	197
102.5	145	131	162	189	205	220	213	213	178	161
105.0	149	136	161	190	205	216	201	186	147	138
107.5	152	142	158	191	205	208	182	162	129	128
110.0	153	146	156	190	202	197	163	138	117	122
112.5	154	150	155	188	196	180	147	119	110	116
115.0	155	153	154	184	185	163	133	108	107	110
117.5	156	155	152	177	173	150	123	100	104	107
120.0	156	155	149	166	160	139	115	96	101	103
122.5	156	154	145	154	150	132	110	95	97	99
125.0	152	150	139	143	141	126	108	95	95	96
127.5	146	144	134	134	134	122	108	97	96	95
130.0	139	138	131	129	130	121	110	99	97	97

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CANDELA TABULATION - (Cont.)

132.5	135	133	129	124	127	122	110	99	99	100
135.0	132	132	128	123	125	116	103	99	101	102
137.5	132	132	129	121	113	102	91	92	97	100
140.0	125	125	119	108	94	82	76	78	84	85
142.5	108	108	102	89	72	60	59	61	67	69
145.0	88	86	80	66	50	44	41	44	50	52
147.5	65	64	56	44	36	27	25	30	34	35
150.0	44	43	38	31	18	7	8	14	18	19
152.5	32	31	24	12	5	2	2	4	5	5
155.0	11	10	6	4	2	1	1	1	2	2
157.5	3	2	2	2	1	1	1	1	1	1
160.0	1	1	1	2	1	1	0	0	1	0
162.5	1	1	1	2	1	1	0	0	0	0
165.0	1	1	2	2	1	1	0	0	0	0
167.5	1	1	2	2	1	1	0	0	0	0
170.0	1	1	2	2	1	1	0	0	0	0
172.5	1	1	2	2	1	1	0	0	0	0
175.0	1	1	2	2	2	1	0	0	0	0
177.5	1	1	2	2	2	1	0	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

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	1843	1843	1843	1843	1843	1843	1843	1843	1843	1843
2.5	1817	1819	1847	1896	1909	1922	1924	1910	1912	1897
5.0	1793	1844	1929	1979	1942	1939	1930	1913	1844	1767
7.5	1842	1872	1955	1957	1935	1812	1755	1756	1730	1696
10.0	1934	1958	2010	1957	1872	1833	1751	1657	1577	1509
12.5	2081	2117	2221	2161	1889	1753	1578	1447	1354	1326
15.0	2251	2294	2324	2175	1962	1665	1441	1306	1165	1105
17.5	2527	2509	2581	2302	1952	1532	1311	1108	990	936
20.0	2806	2727	2752	2418	1939	1442	1142	965	854	797
22.5	3221	3107	3146	2604	1821	1314	1015	824	747	733
25.0	3600	3478	3375	2635	1819	1186	875	739	686	651
27.5	4168	3900	3836	2783	1660	1053	771	682	614	587
30.0	4755	4430	4207	2888	1535	908	720	617	557	532
32.5	5192	4786	4509	2884	1374	824	658	563	529	512
35.0	5684	5169	4767	2754	1186	773	599	534	507	482
37.5	6340	5681	4980	2518	1007	701	544	516	479	446
40.0	6928	6282	5145	2212	901	613	518	493	445	407
42.5	7521	6730	5370	1884	790	537	506	465	409	370
45.0	8407	7246	5498	1555	684	521	488	428	376	339
47.5	8999	7825	5615	1270	595	513	456	392	352	319
50.0	9710	8509	5525	1040	532	491	424	368	337	304
52.5	10650	8930	5502	887	506	466	397	350	325	293
55.0	11377	9315	5195	793	506	440	374	338	316	284
57.5	11633	9230	4631	669	522	416	358	327	307	274
60.0	11831	8851	3731	561	502	395	343	317	291	253
62.5	11516	8165	2831	497	455	373	329	301	270	247
65.0	10171	6671	1890	466	408	354	315	280	293	313
67.5	8146	4873	1262	444	382	336	297	307	347	384
70.0	6126	3472	880	418	363	320	313	343	373	330
72.5	3996	2299	643	390	338	304	322	336	273	247
75.0	2519	1504	505	370	322	301	327	280	246	212
77.5	1126	727	397	348	307	313	292	249	223	203

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CANDELA TABULATION - (Cont.)

80.0	676	526	331	325	301	295	264	245	229	209
82.5	484	409	278	304	305	267	267	252	236	216
85.0	391	263	265	307	277	265	273	257	242	222
87.5	311	114	280	293	280	266	278	263	248	228
90.0	225	89	272	298	284	270	283	270	255	234
92.5	156	191	247	305	293	276	290	278	265	243
95.0	147	253	230	302	288	261	283	274	264	243
97.5	181	256	228	277	274	244	273	267	260	237
100.0	199	243	226	242	261	236	264	262	257	230
102.5	196	225	214	210	241	229	256	258	253	222
105.0	184	203	198	187	218	219	247	253	249	210
107.5	169	181	180	169	194	205	236	247	243	198
110.0	153	161	162	155	171	189	225	238	235	185
112.5	138	146	146	142	153	176	209	229	227	173
115.0	127	132	132	132	139	164	196	218	215	163
117.5	117	123	123	126	129	156	184	205	202	156
120.0	110	114	115	119	123	148	175	193	185	151
122.5	105	107	108	113	120	142	166	181	169	146
125.0	100	102	104	109	119	139	158	170	154	140
127.5	98	100	103	109	119	138	154	157	140	136
130.0	99	100	103	110	119	137	150	148	130	132
132.5	101	102	106	113	118	129	142	140	124	130
135.0	104	106	108	116	117	116	124	126	124	129
137.5	106	108	111	113	107	102	99	102	109	122
140.0	95	99	100	96	89	82	74	77	88	102
142.5	79	82	82	77	69	60	52	54	66	78
145.0	60	62	61	57	49	41	36	37	46	56
147.5	38	38	39	36	32	24	19	25	31	37
150.0	20	20	21	21	16	10	9	12	20	25
152.5	7	8	8	8	7	7	6	7	8	12
155.0	3	4	4	5	5	5	6	6	6	6
157.5	1	2	2	3	4	5	5	6	5	4
160.0	1	1	2	3	4	5	5	5	5	4
162.5	1	1	2	3	4	4	5	5	4	3
165.0	0	1	1	2	3	4	4	4	4	3
167.5	0	0	1	2	3	3	4	4	4	2
170.0	0	0	0	1	2	3	3	3	3	2
172.5	0	0	0	1	2	2	3	3	3	2
175.0	0	0	0	1	1	2	2	2	2	1
177.5	0	0	0	1	1	1	2	2	2	1
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	**Horizontal Angles**	
	175.0	**180.0**
0.0	1843	1843
2.5	1908	1920
5.0	1710	1709
7.5	1705	1702
10.0	1447	1439
12.5	1268	1255
15.0	1061	1056
17.5	896	897
20.0	774	772
22.5	713	710
25.0	633	631

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CANDELA TABULATION - (Cont.)

27.5	576	574
30.0	540	539
32.5	509	510
35.0	479	478
37.5	444	444
40.0	404	406
42.5	367	372
45.0	339	344
47.5	317	322
50.0	298	301
52.5	280	282
55.0	261	264
57.5	237	239
60.0	205	202
62.5	208	212
65.0	275	272
67.5	337	326
70.0	218	193
72.5	172	144
75.0	129	91
77.5	122	71
80.0	128	67
82.5	133	72
85.0	137	80
87.5	143	90
90.0	149	113
92.5	157	141
95.0	160	164
97.5	160	180
100.0	163	192
102.5	167	198
105.0	174	200
107.5	180	199
110.0	182	195
112.5	182	189
115.0	179	183
117.5	174	176
120.0	168	170
122.5	162	164
125.0	156	157
127.5	148	150
130.0	141	142
132.5	135	136
135.0	132	133
137.5	130	129
140.0	108	108
142.5	84	84
145.0	61	62
147.5	40	40
150.0	28	28
152.5	16	15
155.0	6	6
157.5	2	1
160.0	1	0
162.5	1	0
165.0	1	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	1	1

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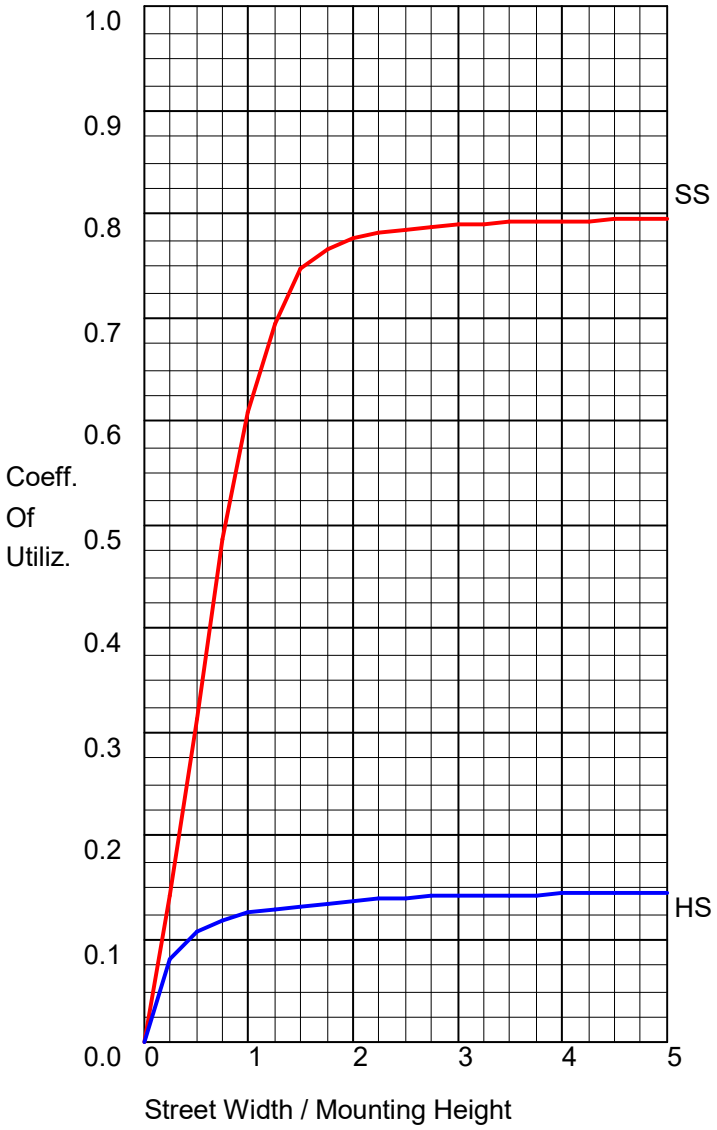
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	13932.5	80.0
Downward House Side	2621.9	15.1
Downward Total	16554.4	95.1
Upward Street Side	396.3	2.3
Upward House Side	465.4	2.7
Upward Total	861.7	4.9
Total Flux	17416.1	100.0

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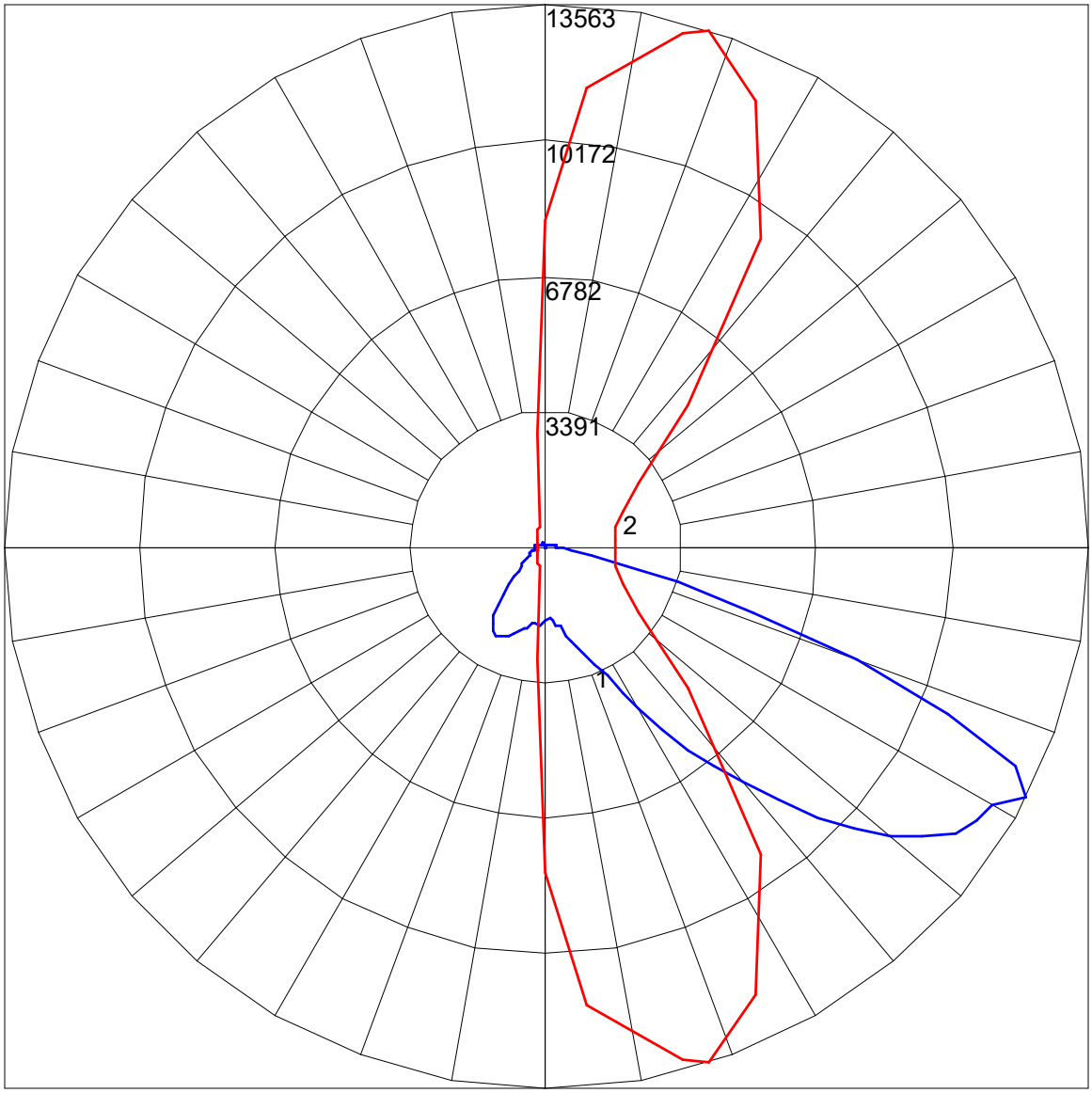
POLAR GRAPH



Maximum Candela = 13563 Located At Horizontal Angle = 72.5, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (72.5 - 252.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

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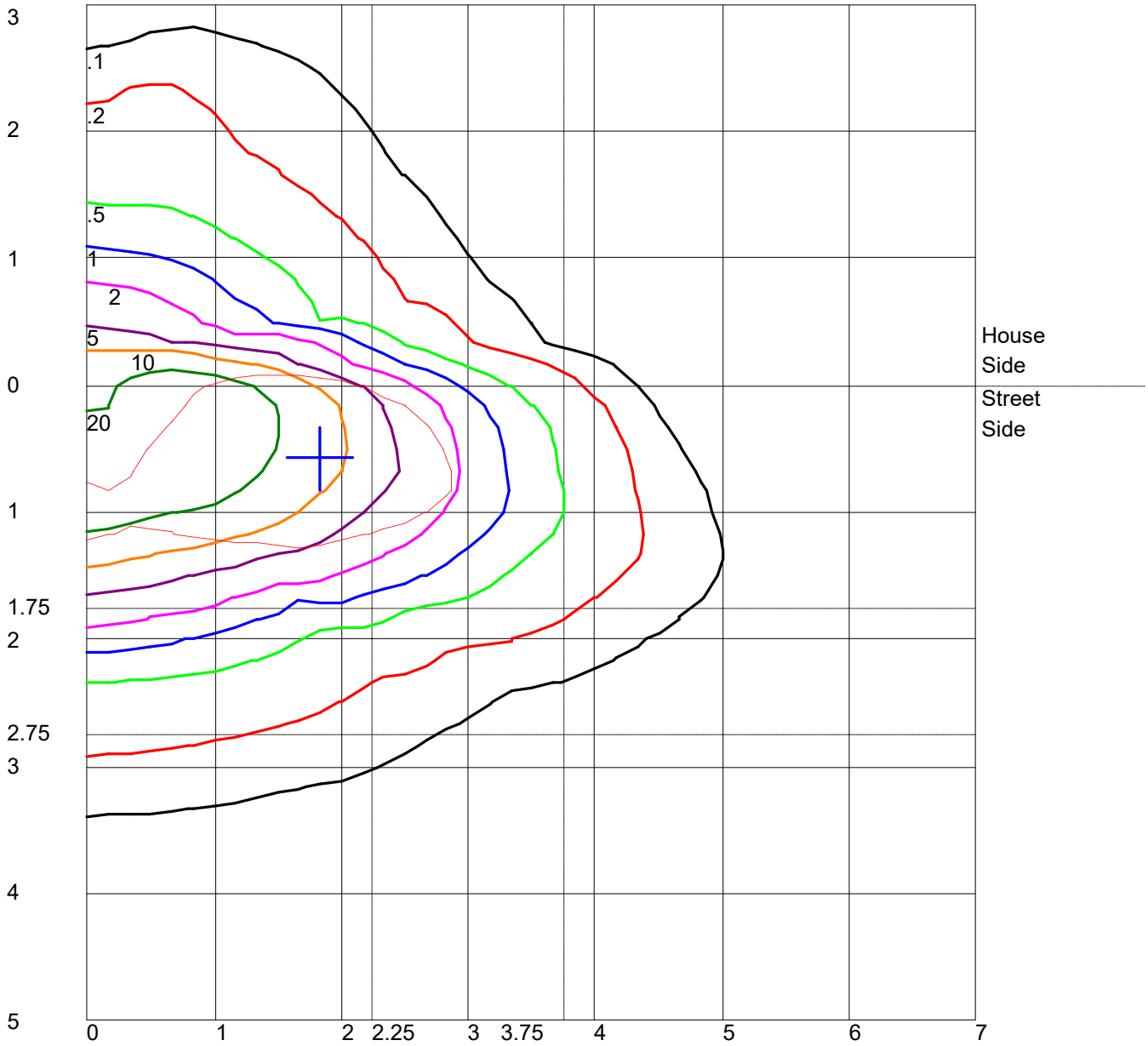
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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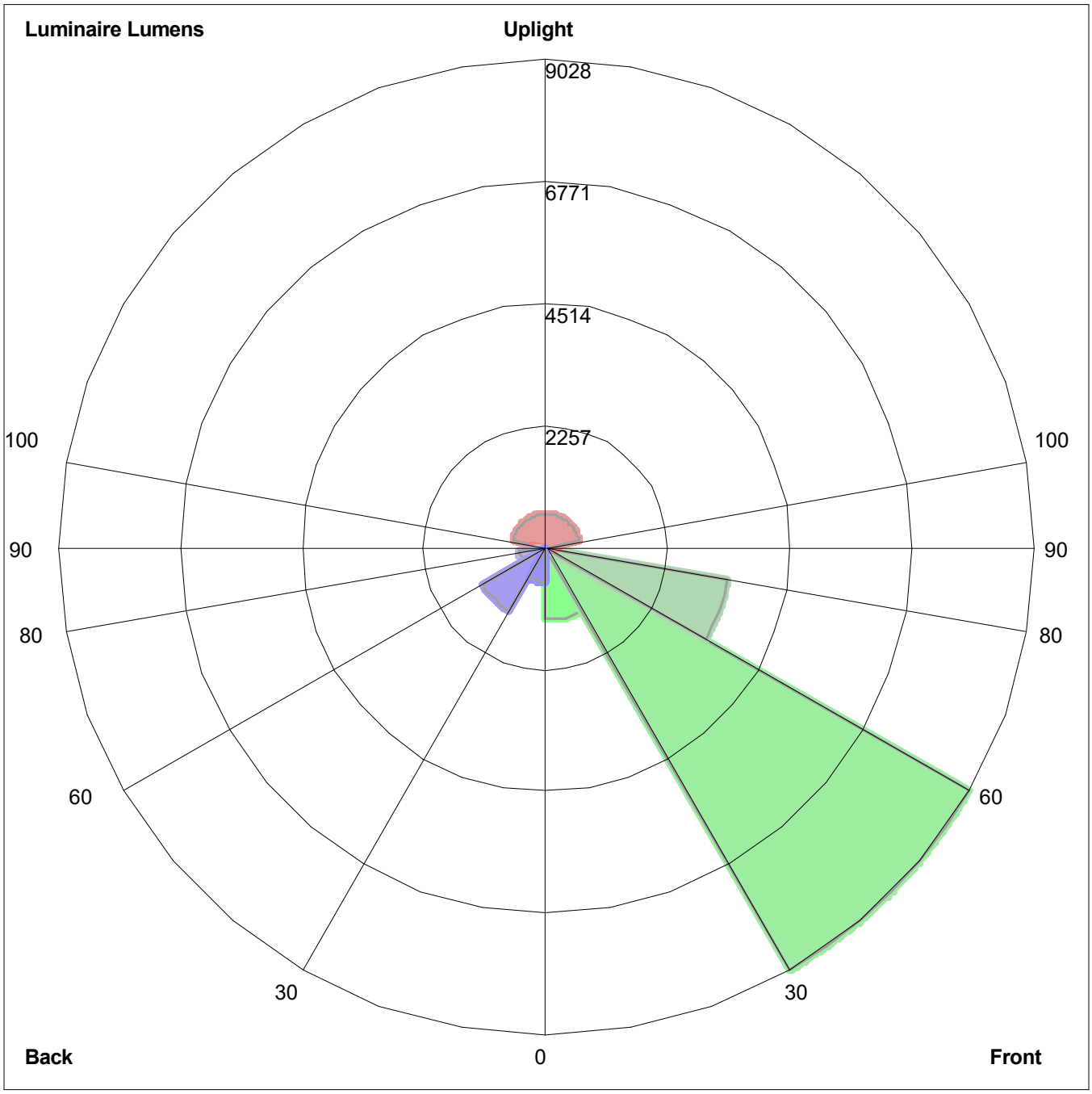
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1339.5, Medium=9027.8, High=3407.9, Very High=157.3
Back: Low=636.6, Medium=1344.9, High=503.4, Very High=137.0
Uplight: Low=246.0, High=615.7

BUG Rating : B2-U4-G2

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