IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-15L-SIL-FT-50-70CRI.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12571
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/05/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-15L-SIL-FT-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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15335
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	102
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	8160
Maximum Candela Angle	37.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	8160
Maximum Candela Angle (<90 Degrees Vertical)	37.5H 67.5V
Maximum Candela At 90 Degrees Vertical	218 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1881 (12.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	775.0	N.A.	5.1
FM - Front-Medium (30-60)	4507.5	N.A.	29.4
FH - Front-High (60-80)	4816.2	N.A.	31.4
FVH - Front-Very High (80-90)	266.1	N.A.	1.7
BL - Back-Low (0-30)	692.8	N.A.	4.5
BM - Back-Medium (30-60)	2318.6	N.A.	15.1
BH - Back-High (60-80)	1125.4	N.A.	7.3
BVH - Back-Very High (80-90)	193.9	N.A.	1.3
UL - Uplight-Low (90-100)	176.4	N.A.	1.2
UH - Uplight-High (100-180)	463.0	N.A.	3.0
Total	15334.9	N.A.	100.0
BUG Rating	B3-U3-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	37.5	45.0	55.0	65.0	75.0
0.0	1347	1347	1347	1347	1347	1347	1347	1347	1347	1347
2.5	1406	1419	1415	1421	1417	1413	1407	1400	1387	1375
5.0	1335	1324	1357	1406	1435	1434	1444	1462	1459	1423
7.5	1375	1379	1334	1359	1357	1356	1344	1407	1468	1459
10.0	1369	1344	1371	1391	1387	1406	1405	1421	1450	1485
12.5	1445	1456	1472	1453	1446	1444	1438	1462	1456	1613
15.0	1520	1508	1531	1507	1564	1559	1550	1553	1575	1615
17.5	1664	1656	1678	1649	1612	1619	1651	1646	1664	1709
20.0	1754	1789	1798	1781	1830	1832	1708	1794	1790	1753
22.5	1937	1925	1961	1963	1916	1925	1911	1890	1878	1919
25.0	2138	2153	2127	2061	2127	2108	2013	1984	2020	1970
27.5	2333	2367	2324	2296	2236	2227	2202	2089	2061	2064
30.0	2645	2660	2638	2470	2442	2425	2309	2235	2128	2195
32.5	2829	2843	2800	2760	2664	2607	2521	2395	2252	2258
35.0	3073	3032	2973	2936	2927	2912	2736	2524	2334	2287
37.5	3285	3265	3177	3130	3116	3104	3069	2728	2475	2327
40.0	3553	3503	3432	3368	3335	3327	3338	2960	2630	2316
42.5	3884	3814	3725	3656	3603	3601	3609	3283	2746	2388
45.0	4253	4205	4087	4018	3942	3938	3899	3662	2870	2527
47.5	4699	4674	4548	4472	4383	4357	4265	3975	3152	2699
50.0	5220	5196	5072	5048	4910	4831	4736	4381	3482	2961
52.5	5646	5629	5572	5626	5474	5358	5245	4828	3964	3304
55.0	5880	5886	5902	6087	6056	5976	5818	5333	4479	3481
57.5	6008	6026	6145	6402	6560	6571	6377	5925	5041	3789
60.0	6068	6102	6299	6659	6938	7012	6918	6455	5605	4264
62.5	6120	6167	6456	6921	7303	7411	7362	6948	5978	4670
65.0	6052	6096	6443	7085	7639	7849	7906	7314	6167	4880
67.5	5802	5860	6285	7117	8075	8160	8050	7576	6061	4474
70.0	4822	4974	5587	6759	8057	8097	8051	7315	5383	3793
72.5	2794	3031	4322	5572	7100	7406	7847	6156	4251	2631
75.0	1289	1464	2991	4157	5506	5917	6266	4771	2842	1432
77.5	610	664	1502	2613	3777	3716	3415	2927	1519	878
80.0	497	531	859	1326	1881	1877	1576	1556	947	651
82.5	396	434	609	906	1030	994	905	845	575	476
85.0	304	337	451	542	534	505	547	414	328	367
87.5	205	223	285	315	210	195	252	216	230	250
90.0	64	78	113	130	147	151	161	168	179	191
92.5	73	81	115	133	148	153	163	168	180	190
95.0	82	83	117	135	150	153	164	166	178	184
97.5	90	86	117	136	151	153	163	162	173	158
100.0	96	90	117	137	151	153	161	158	160	127
102.5	102	93	116	138	150	153	158	152	143	110
105.0	105	97	115	139	150	151	153	140	125	103
107.5	107	101	113	139	148	149	147	126	109	98
110.0	108	105	112	138	145	145	137	113	98	95
112.5	109	107	110	136	140	137	124	104	92	92
115.0	110	109	109	132	131	127	115	98	87	91
117.5	110	110	107	125	122	119	108	94	84	89
120.0	110	110	105	116	115	112	103	92	83	87
122.5	109	108	101	108	109	107	100	90	83	86
125.0	106	106	98	101	105	103	98	90	83	84
127.5	103	102	96	96	100	100	97	92	84	86
130.0	99	99	95	93	98	98	97	92	86	87

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CANDELA TABULATION - (Cont.)

132.5	98	97	94	92	97	98	95	88	87	90
135.0	98	98	95	92	92	90	86	83	87	92
137.5	95	96	92	83	76	75	72	73	81	91
140.0	83	83	77	68	60	58	56	60	69	80
142.5	67	66	62	52	42	41	41	46	56	66
145.0	51	50	45	36	30	30	29	33	42	51
147.5	34	33	31	26	19	18	15	20	29	34
150.0	25	24	22	15	6	6	5	8	16	22
152.5	12	12	8	5	2	2	2	4	6	10
155.0	4	4	2	1	1	1	1	2	3	4
157.5	1	1	1	1	1	1	1	2	2	2
160.0	1	1	1	1	1	1	1	2	2	2
162.5	1	1	1	1	1	1	1	2	2	2
165.0	1	1	1	1	1	1	1	2	2	2
167.5	1	1	1	1	1	1	2	2	2	2
170.0	1	1	1	1	2	2	2	2	2	2
172.5	1	1	1	1	2	2	2	2	2	2
175.0	1	1	1	1	2	2	2	2	2	2
177.5	1	1	1	1	2	2	2	2	2	2
180.0	2	2	2	2	2	2	2	2	2	2

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	1347	1347	1347	1347	1347	1347	1347	1347	1347	1347
2.5	1364	1351	1352	1342	1331	1337	1331	1323	1320	1322
5.0	1387	1353	1327	1344	1418	1425	1406	1395	1374	1361
7.5	1434	1388	1371	1413	1430	1413	1392	1343	1287	1253
10.0	1460	1434	1404	1462	1413	1378	1310	1297	1293	1251
12.5	1602	1520	1492	1558	1444	1334	1297	1308	1286	1330
15.0	1663	1586	1562	1585	1455	1407	1320	1394	1411	1432
17.5	1770	1701	1687	1673	1497	1414	1512	1478	1477	1536
20.0	1876	1767	1771	1699	1558	1532	1527	1561	1592	1633
22.5	1992	1920	1905	1764	1592	1625	1626	1704	1679	1782
25.0	2046	2037	1974	1777	1667	1664	1735	1754	1821	1871
27.5	2171	2095	2101	1853	1693	1753	1802	1883	1899	2015
30.0	2233	2149	2176	1944	1765	1845	1913	1933	2014	2096
32.5	2239	2172	2182	1989	1813	1892	1941	2039	2149	2267
35.0	2261	2165	2193	1967	1804	1910	2018	2133	2213	2317
37.5	2257	2176	2216	1936	1791	1899	2047	2148	2230	2357
40.0	2239	2230	2189	1886	1780	1866	2063	2127	2243	2415
42.5	2296	2196	2199	1853	1744	1847	2026	2103	2266	2621
45.0	2320	2201	2219	1854	1662	1861	1984	2063	2316	2810
47.5	2370	2264	2175	1822	1602	1838	1930	2004	2512	2530
50.0	2442	2344	2190	1814	1536	1770	1862	1953	2498	2297
52.5	2626	2405	2277	1810	1504	1711	1777	1957	2325	2133
55.0	2802	2550	2336	1761	1480	1642	1683	1959	2139	1999
57.5	3041	2699	2388	1715	1413	1532	1579	1886	1973	1871
60.0	3258	2812	2482	1677	1322	1398	1448	1761	1808	1738
62.5	3392	2863	2444	1608	1211	1263	1315	1624	1640	1603
65.0	3334	2787	2267	1475	1086	1121	1180	1488	1471	1470
67.5	3011	2409	1968	1295	984	993	1061	1363	1292	1304
70.0	2371	1778	1401	1082	873	894	952	1226	1096	1184
72.5	1524	1200	878	854	753	785	837	1057	955	1072
75.0	854	743	638	677	649	656	734	908	763	870
77.5	563	508	450	534	524	538	615	709	628	806

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CANDELA TABULATION - (Cont.)

80.0	451	399	349	443	422	424	486	529	541	710
82.5	353	312	281	384	362	355	390	413	469	584
85.0	295	216	247	331	303	298	311	326	401	449
87.5	237	120	226	265	255	248	264	256	271	325
90.0	154	92	190	216	214	202	218	212	206	201
92.5	122	142	170	211	205	192	205	202	191	180
95.0	124	174	160	203	198	179	198	195	189	178
97.5	140	175	159	187	188	165	189	187	184	172
100.0	146	166	156	165	177	159	181	181	178	164
102.5	140	154	150	148	166	156	175	176	174	155
105.0	131	143	141	136	153	153	169	172	169	146
107.5	122	131	132	128	143	148	164	168	164	136
110.0	113	122	123	122	132	142	160	166	160	125
112.5	107	114	116	116	123	137	154	162	156	116
115.0	101	107	110	113	117	133	150	158	150	109
117.5	98	103	105	110	114	129	144	153	142	104
120.0	93	99	102	108	112	126	140	146	133	101
122.5	92	95	99	106	110	124	135	138	121	99
125.0	90	92	96	103	110	122	130	130	110	98
127.5	89	92	95	103	109	120	125	121	102	96
130.0	90	92	96	103	109	119	120	113	96	95
132.5	92	93	97	103	107	115	116	105	92	93
135.0	94	96	99	104	104	103	105	99	92	93
137.5	96	99	100	101	96	90	89	88	91	93
140.0	89	92	92	89	82	74	68	71	79	87
142.5	76	78	77	73	65	56	49	52	63	72
145.0	58	59	60	56	48	39	34	36	46	55
147.5	39	40	41	38	32	25	22	26	31	38
150.0	25	25	25	24	19	10	9	16	22	25
152.5	13	13	13	11	7	4	3	4	11	16
155.0	5	5	5	5	4	2	1	2	2	4
157.5	3	4	3	3	2	2	1	1	0	0
160.0	3	3	3	3	2	2	1	1	0	0
162.5	3	3	3	3	2	2	1	0	0	0
165.0	3	3	3	3	2	2	1	1	0	0
167.5	3	3	3	3	2	2	1	1	0	0
170.0	3	3	3	3	2	2	1	1	0	0
172.5	3	3	3	3	2	2	1	1	0	0
175.0	3	3	3	3	2	2	1	1	0	0
177.5	3	3	3	3	2	2	1	1	0	0
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Angles	**Horizontal Angles**	
	175.0	**180.0**
0.0	1347	1347
2.5	1330	1342
5.0	1359	1349
7.5	1258	1253
10.0	1266	1273
12.5	1342	1350
15.0	1437	1383
17.5	1512	1588
20.0	1630	1594
22.5	1781	1781
25.0	1888	1868

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CANDELA TABULATION - (Cont.)

27.5	2056	2085
30.0	2185	2180
32.5	2342	2347
35.0	2403	2414
37.5	2458	2493
40.0	2573	2658
42.5	2802	2822
45.0	2525	2517
47.5	2331	2343
50.0	2213	2214
52.5	2101	2098
55.0	1986	1985
57.5	1862	1851
60.0	1730	1721
62.5	1597	1594
65.0	1477	1469
67.5	1303	1287
70.0	1200	1182
72.5	1030	947
75.0	849	808
77.5	843	806
80.0	807	768
82.5	679	650
85.0	523	520
87.5	365	390
90.0	170	144
92.5	114	90
95.0	112	103
97.5	108	116
100.0	106	122
102.5	105	124
105.0	106	124
107.5	108	122
110.0	110	119
112.5	111	116
115.0	110	113
117.5	109	110
120.0	108	109
122.5	106	107
125.0	105	105
127.5	102	103
130.0	99	99
132.5	96	97
135.0	95	95
137.5	95	95
140.0	92	92
142.5	76	77
145.0	60	60
147.5	43	44
150.0	28	28
152.5	18	19
155.0	6	5
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	2	2

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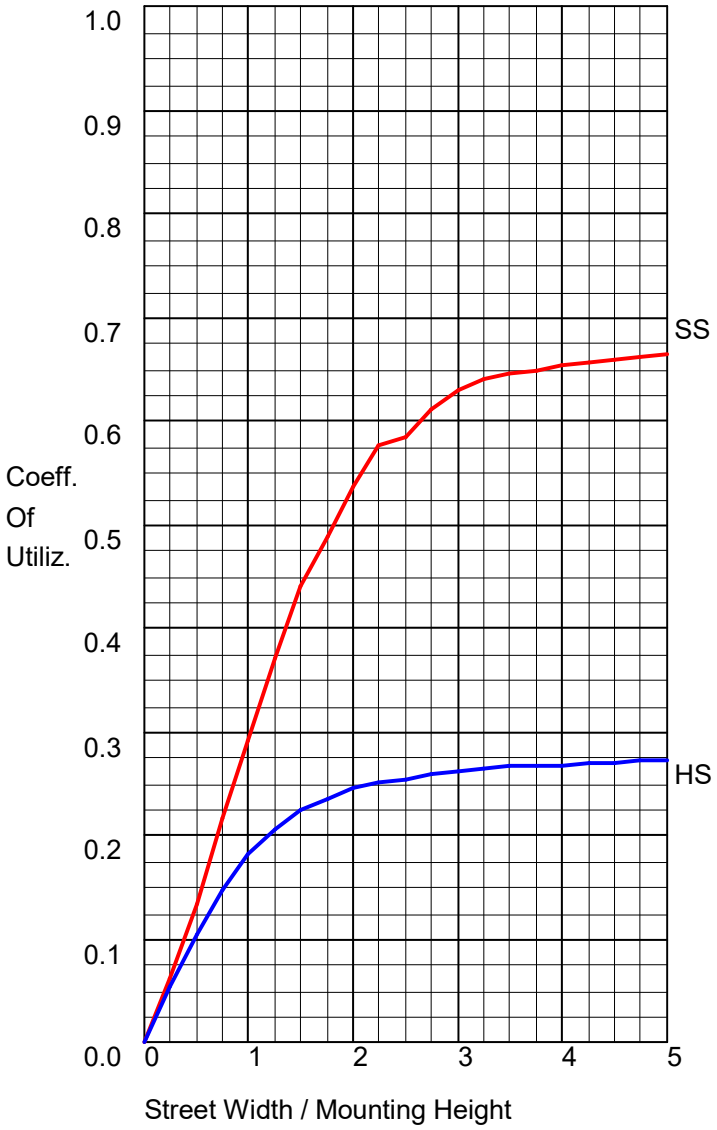
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	10364.7	67.6
Downward House Side	4330.8	28.2
Downward Total	14695.5	95.8
Upward Street Side	292.8	1.9
Upward House Side	346.6	2.3
Upward Total	639.4	4.2
Total Flux	15334.9	100.0

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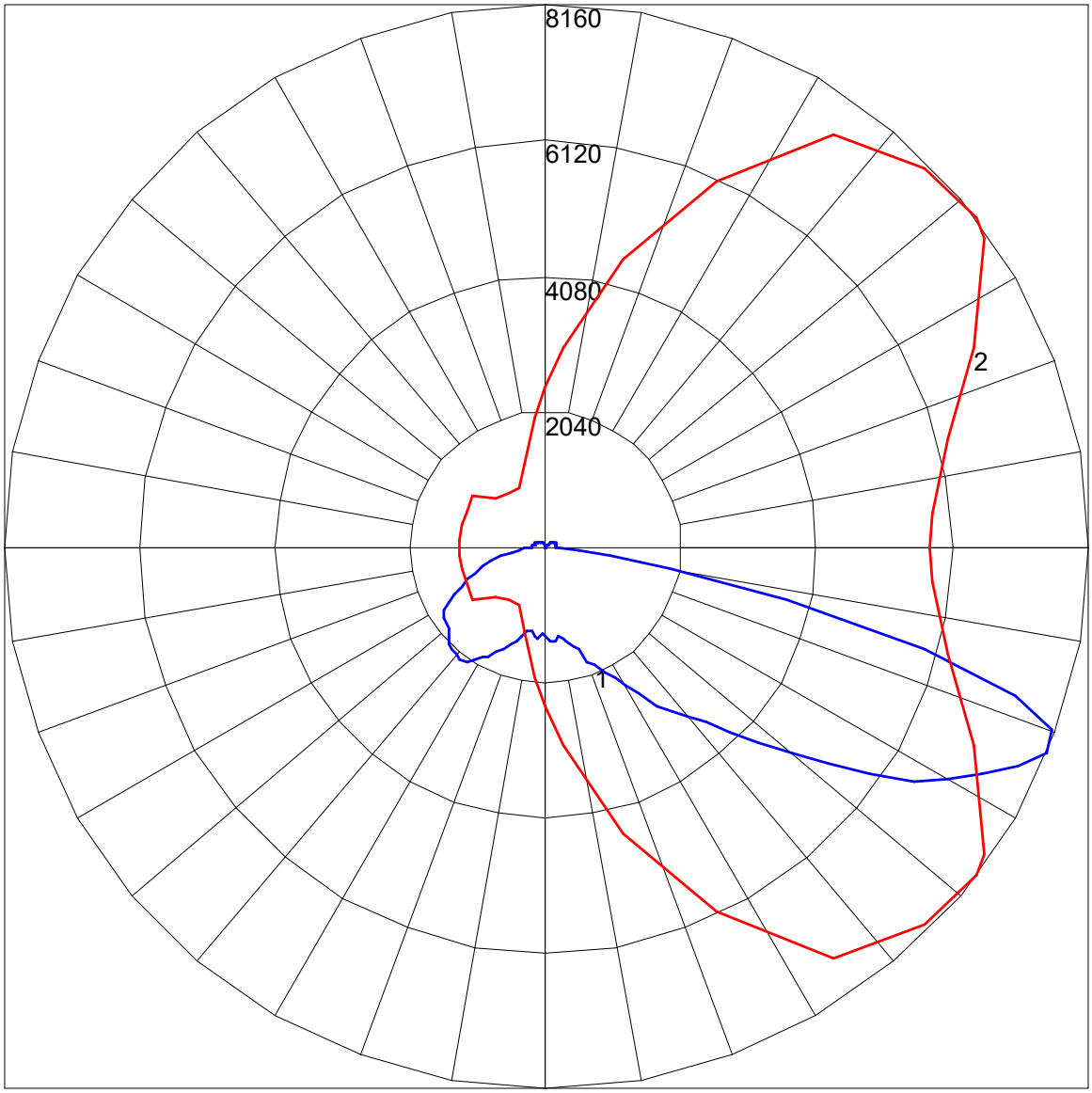
POLAR GRAPH



Maximum Candela = 8160 Located At Horizontal Angle = 37.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (37.5 - 217.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

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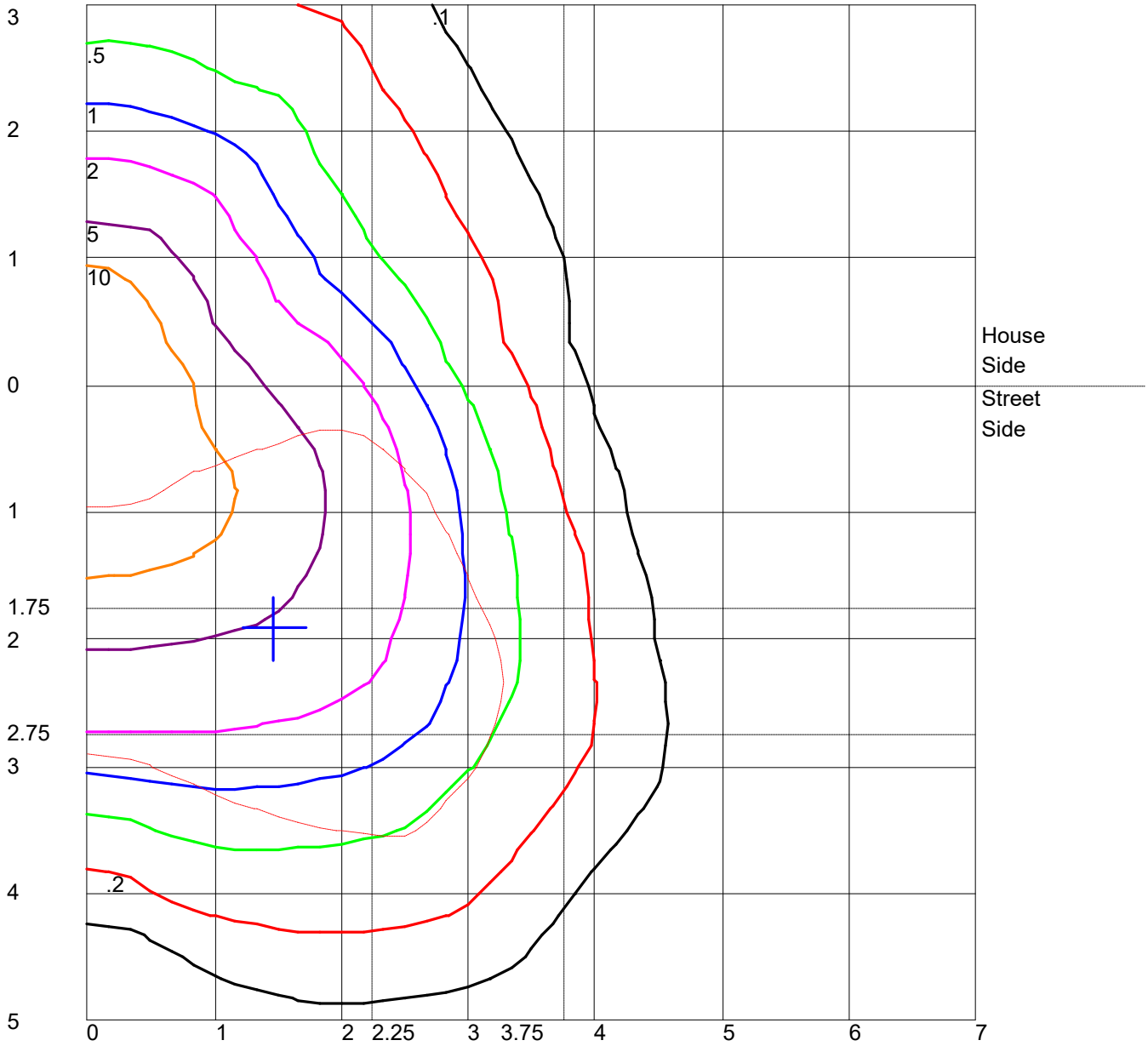
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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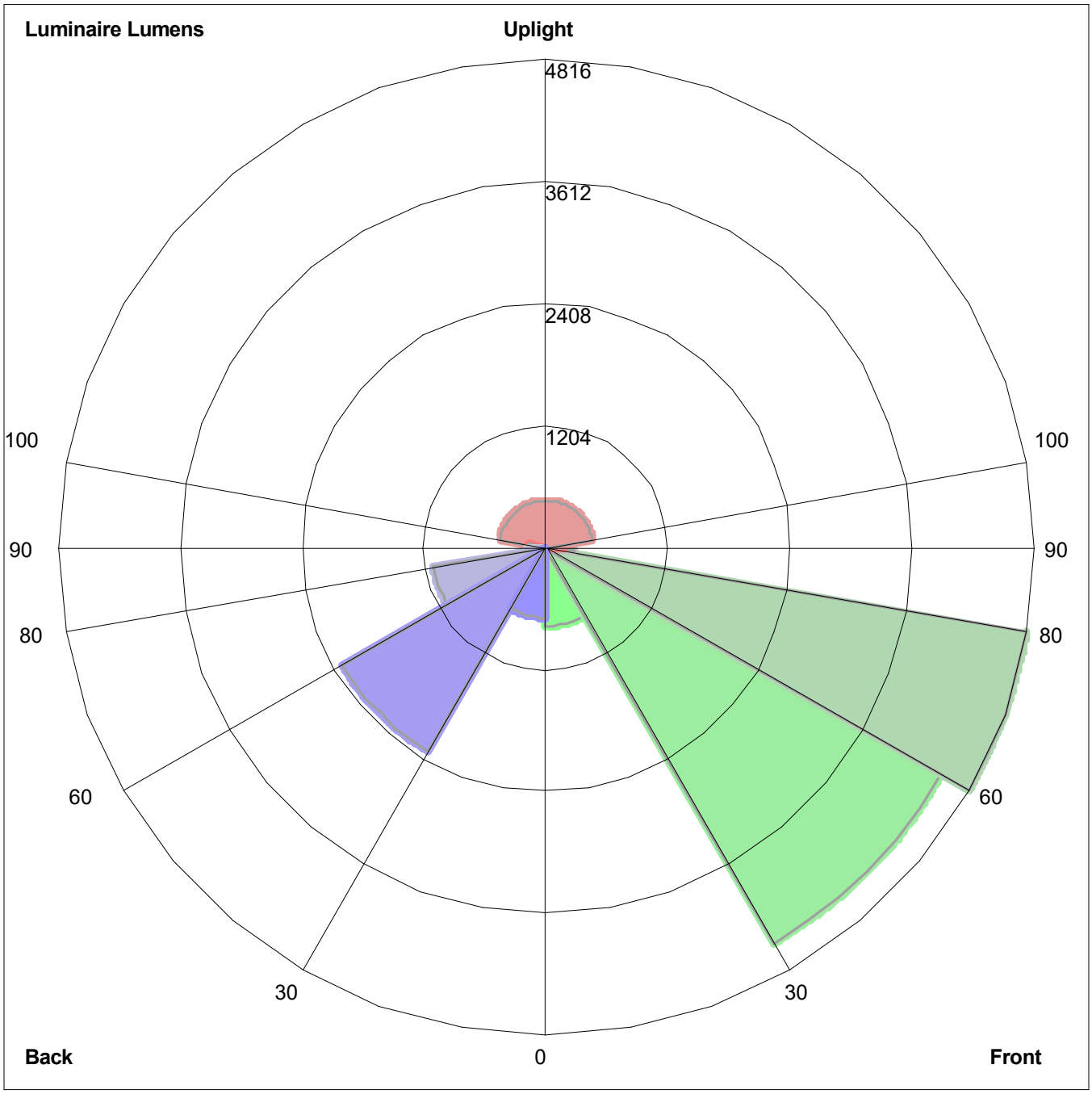
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=775.0, Medium=4507.5, High=4816.2, Very High=266.1
Back: Low=692.8, Medium=2318.6, High=1125.4, Very High=193.9
Uplight: Low=176.4, High=463.0

BUG Rating : B3-U3-G3

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