IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-2-50-70CRI-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12638
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/26/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-25L-SIL-2-50-70CRI-IL
[_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] 5000

CHARACTERISTICS

IES Classification	Type I
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10058
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.06
Maximum Candela	12133
Maximum Candela Angle	80H 60V
Maximum Candela (<90 Degrees Vertical)	12133
Maximum Candela Angle (<90 Degrees Vertical)	80H 60V
Maximum Candela At 90 Degrees Vertical	221 (2.2% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	763 (7.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1180.7	N.A.	11.7
FM - Front-Medium (30-60)	4798.0	N.A.	47.7
FH - Front-High (60-80)	2005.6	N.A.	19.9
FVH - Front-Very High (80-90)	218.9	N.A.	2.2
BL - Back-Low (0-30)	290.0	N.A.	2.9
BM - Back-Medium (30-60)	624.2	N.A.	6.2
BH - Back-High (60-80)	263.8	N.A.	2.6
BVH - Back-Very High (80-90)	89.7	N.A.	0.9
UL - Uplight-Low (90-100)	164.1	N.A.	1.6
UH - Uplight-High (100-180)	422.8	N.A.	4.2
Total	10057.8	N.A.	100.0
BUG Rating	B1-U3-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	80
0.0	1579	1579	1579	1579	1579	1579	1579	1579	1579	1579
2.5	1633	1631	1650	1658	1637	1624	1598	1579	1573	1567
5.0	1855	1840	1872	1838	1838	1826	1824	1765	1622	1582
7.5	1686	1710	1715	1766	1818	1897	1896	1857	1781	1686
10.0	1904	1905	1840	1942	1907	1861	1903	1904	1919	1838
12.5	2038	2033	1954	1960	2035	1992	1902	2039	2129	2073
15.0	2148	2263	2217	2226	2170	2080	2213	2146	2281	2277
17.5	2528	2410	2458	2384	2446	2446	2366	2408	2525	2499
20.0	2674	2700	2763	2705	2659	2673	2751	2731	2738	2755
22.5	2979	3031	3007	2930	3105	2993	3093	3091	3035	3210
25.0	3026	3023	3109	3227	3266	3467	3504	3497	3480	3555
27.5	3080	3058	3129	3174	3532	3737	4014	4066	3950	4156
30.0	2843	2890	2964	3185	3505	4100	4513	4633	4590	4602
32.5	2577	2590	2779	3007	3533	4124	4969	5401	5404	5317
35.0	2221	2228	2408	2816	3412	4214	5274	6112	6010	5820
37.5	1865	1864	2037	2459	3235	4262	5395	6634	6698	6382
40.0	1514	1498	1663	2071	2860	4138	5464	7133	7416	6991
42.5	1186	1198	1333	1690	2443	3822	5434	7496	8059	7915
45.0	945	955	1070	1377	2033	3368	5343	7833	8922	8664
47.5	798	804	886	1147	1648	2880	5108	7777	9757	9701
50.0	749	747	795	1005	1359	2391	4641	7735	10443	10551
52.5	785	771	767	934	1171	1900	4090	7522	10854	10623
55.0	1124	1081	916	917	1069	1458	3510	6983	11031	11064
57.5	1998	1914	1557	1122	1004	1168	2711	6193	11010	11489
60.0	2394	2310	2061	1702	1130	1011	1827	5024	10952	12133
62.5	1717	1668	1626	1688	1499	850	1160	3733	10599	12050
65.0	1287	1292	1252	1253	1297	1011	789	2451	9437	10632
67.5	1187	1190	1140	1102	1022	996	698	1414	6752	8375
70.0	1107	1111	1047	1007	929	844	824	829	4089	5631
72.5	864	871	853	881	864	781	827	634	1835	2806
75.0	734	734	699	705	776	743	726	760	721	1211
77.5	645	651	642	646	708	742	647	882	401	489
80.0	590	600	593	593	656	763	638	678	421	356
82.5	504	510	527	551	619	714	689	535	439	293
85.0	308	330	352	376	451	590	663	482	391	294
87.5	164	178	211	225	249	308	389	399	277	240
90.0	90	102	135	151	168	187	213	221	203	196
92.5	72	80	110	124	136	149	153	166	179	181
95.0	81	82	111	127	140	153	153	168	179	154
97.5	92	87	115	131	142	153	151	167	165	125
100.0	99	91	116	132	143	153	148	158	131	108
102.5	104	94	116	134	143	151	143	142	109	105
105.0	108	98	115	134	142	147	134	123	96	101
107.5	110	103	114	135	142	142	121	107	89	95
110.0	111	106	112	135	140	133	109	93	84	90
112.5	112	109	111	134	136	122	99	83	79	86
115.0	113	111	111	130	129	112	92	76	76	81
117.5	114	113	110	125	121	104	87	71	74	77
120.0	114	113	108	118	113	98	83	68	72	74
122.5	114	113	105	110	107	94	80	67	69	70
125.0	112	111	102	104	102	92	78	68	67	67
127.5	108	107	100	99	98	89	78	69	67	67
130.0	105	104	98	96	95	88	80	70	68	69

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CANDELA TABULATION - (Cont.)

132.5	102	101	97	93	93	89	80	71	70	71
135.0	101	100	96	93	92	85	73	70	72	72
137.5	101	100	97	92	85	74	65	65	70	73
140.0	96	95	91	81	69	58	54	55	60	64
142.5	84	83	77	66	52	43	40	42	48	51
145.0	67	67	60	49	36	31	29	30	35	37
147.5	49	48	42	33	25	18	17	20	23	24
150.0	33	32	30	23	13	3	4	9	12	12
152.5	24	24	18	9	2	0	0	1	2	3
155.0	8	8	4	2	0	0	0	0	0	0
157.5	2	2	1	0	0	0	0	0	0	0
160.0	0	1	0	0	0	0	0	0	0	0
162.5	0	1	0	0	0	0	0	0	0	0
165.0	0	1	1	1	0	0	0	0	0	0
167.5	0	1	1	1	0	0	0	0	0	0
170.0	1	1	1	1	0	0	0	0	0	0
172.5	1	1	1	1	0	0	0	0	0	0
175.0	1	1	1	1	0	0	0	0	0	0
177.5	1	1	1	2	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**									
	85	**90**	**95**	**105**	**115**	**125**	**135**	**145**	**155**	**165**
0.0	1579	1579	1579	1579	1579	1579	1579	1579	1579	1579
2.5	1578	1576	1586	1609	1612	1598	1577	1537	1518	1521
5.0	1567	1593	1644	1616	1505	1407	1308	1199	1110	1021
7.5	1641	1641	1680	1534	1326	1083	883	754	681	614
10.0	1736	1718	1699	1416	1131	829	623	475	398	356
12.5	1893	1866	1858	1437	906	608	409	325	294	288
15.0	2052	2027	1907	1352	780	448	310	291	281	273
17.5	2333	2220	2086	1277	628	341	296	275	264	260
20.0	2605	2404	2168	1193	506	312	281	264	257	241
22.5	3000	2732	2443	1138	408	308	274	253	232	224
25.0	3369	3021	2536	1010	363	303	270	232	212	195
27.5	3921	3378	2796	886	356	300	251	212	180	174
30.0	4471	3817	2956	739	354	290	232	185	162	156
32.5	4922	4087	3016	609	341	274	204	166	153	154
35.0	5428	4350	3050	500	328	252	181	158	153	151
37.5	6079	4717	3043	431	306	223	164	159	153	145
40.0	6687	5164	2956	399	281	195	164	163	145	118
42.5	7305	5464	2847	376	252	174	175	160	120	96
45.0	8148	5805	2722	359	229	182	183	138	107	92
47.5	8653	6076	2497	375	228	193	173	122	106	92
50.0	9112	6496	2216	440	274	224	154	121	112	125
52.5	9708	6740	1969	379	289	292	168	129	157	182
55.0	10364	7114	1683	297	225	267	219	182	213	220
57.5	10735	6987	1346	245	190	187	228	240	214	162
60.0	11170	6777	988	219	189	162	214	243	157	133
62.5	10972	6380	753	200	183	168	222	180	136	120
65.0	9724	5289	556	187	172	192	200	149	134	117
67.5	7822	4016	437	185	168	211	163	150	133	118
70.0	5702	2797	366	187	176	192	156	147	137	121
72.5	3342	1760	290	182	185	171	155	147	136	126
75.0	1820	1134	237	178	186	166	158	150	141	129
77.5	629	470	198	183	178	166	161	153	146	132

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CANDELA TABULATION - (Cont.)

80.0	399	334	175	197	180	168	166	156	149	136
82.5	283	258	154	206	187	172	173	161	153	148
85.0	226	166	161	212	195	176	184	167	157	158
87.5	197	73	182	207	192	175	181	179	164	147
90.0	159	52	171	196	186	172	180	170	160	148
92.5	111	111	150	198	190	174	183	175	166	153
95.0	100	158	140	193	186	164	178	173	167	154
97.5	122	162	138	175	177	155	172	168	163	152
100.0	130	154	139	152	169	152	166	165	162	148
102.5	126	142	133	129	156	149	162	163	160	143
105.0	118	130	124	114	141	144	158	161	159	138
107.5	110	118	115	104	125	136	154	159	156	132
110.0	101	107	105	97	111	126	148	156	154	125
112.5	93	97	96	92	100	118	140	153	150	120
115.0	87	91	90	88	92	110	132	147	144	117
117.5	81	84	83	84	87	105	124	138	137	114
120.0	77	79	78	80	83	100	118	130	127	112
122.5	72	74	74	76	81	95	112	123	118	109
125.0	69	70	70	74	80	93	107	115	109	106
127.5	68	68	69	73	80	93	103	109	101	103
130.0	69	69	70	74	80	92	101	102	96	100
132.5	70	70	72	77	79	87	96	99	92	98
135.0	73	73	75	78	79	78	85	91	92	98
137.5	74	76	77	76	71	67	67	74	82	93
140.0	66	68	68	64	59	53	49	55	66	77
142.5	54	55	55	50	43	39	35	37	49	59
145.0	40	40	40	35	31	27	24	26	33	42
147.5	25	25	24	21	19	14	12	17	22	27
150.0	12	12	11	11	9	4	3	6	14	18
152.5	3	3	3	2	2	2	1	2	5	9
155.0	0	0	0	0	1	0	1	1	2	3
157.5	0	0	0	0	0	0	1	1	2	2
160.0	0	0	0	0	0	0	0	1	2	2
162.5	0	0	0	0	0	0	0	1	2	2
165.0	0	0	0	0	0	0	0	1	2	2
167.5	0	0	0	0	0	0	0	1	2	2
170.0	0	0	0	0	0	0	0	1	1	2
172.5	0	0	0	0	0	0	0	0	1	1
175.0	0	0	0	0	0	0	0	0	1	1
177.5	0	0	0	0	0	0	0	0	0	1
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**	
	175	**180**
0.0	1579	1579
2.5	1523	1533
5.0	1006	993
7.5	602	602
10.0	336	339
12.5	285	285
15.0	267	265
17.5	258	258
20.0	235	234
22.5	216	215
25.0	188	189

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CANDELA TABULATION - (Cont.)

27.5	169	168
30.0	157	156
32.5	156	156
35.0	154	153
37.5	144	142
40.0	114	112
42.5	97	96
45.0	93	93
47.5	95	96
50.0	147	154
52.5	188	195
55.0	194	195
57.5	122	125
60.0	103	104
62.5	93	94
65.0	86	85
67.5	83	78
70.0	81	71
72.5	81	66
75.0	84	63
77.5	87	59
80.0	89	56
82.5	97	62
85.0	108	71
87.5	97	70
90.0	100	82
92.5	105	98
95.0	107	112
97.5	108	120
100.0	110	127
102.5	113	130
105.0	117	131
107.5	122	131
110.0	125	131
112.5	126	129
115.0	125	127
117.5	124	125
120.0	122	124
122.5	120	122
125.0	116	118
127.5	112	113
130.0	107	108
132.5	103	104
135.0	101	102
137.5	100	100
140.0	84	85
142.5	65	65
145.0	46	47
147.5	30	30
150.0	20	20
152.5	11	11
155.0	4	4
157.5	1	0
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	0	0

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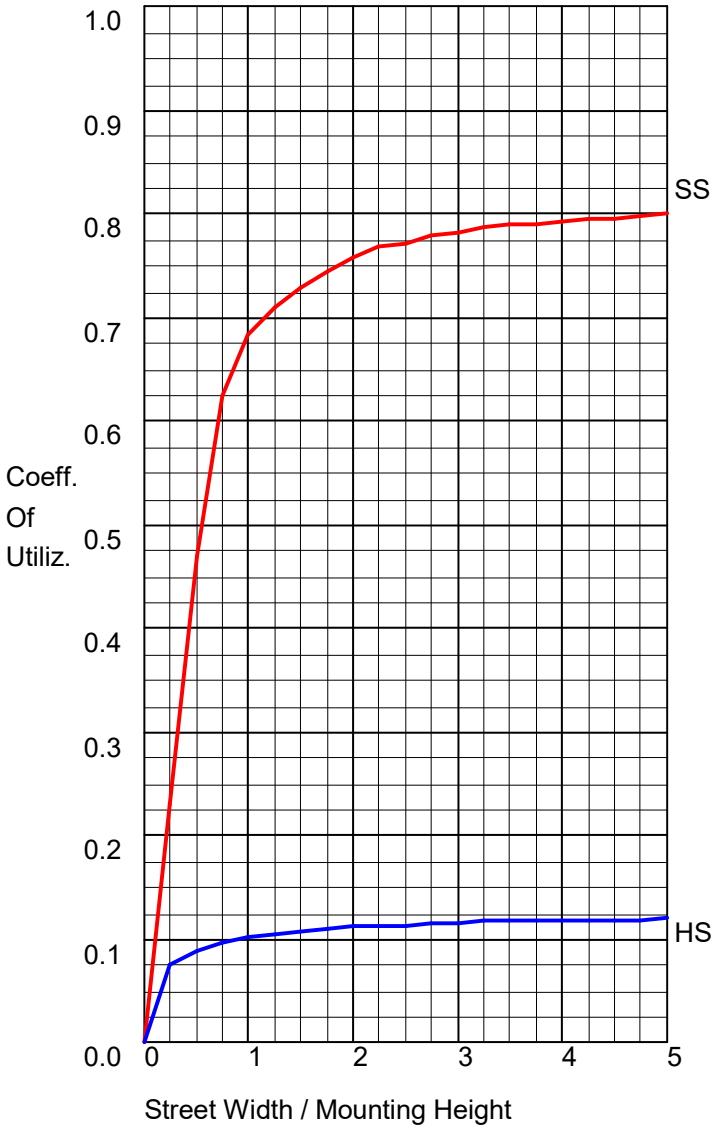
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	8203.3	81.6
Downward House Side	1267.7	12.6
Downward Total	9471.0	94.2
Upward Street Side	279.3	2.8
Upward House Side	307.7	3.1
Upward Total	587.0	5.8
Total Flux	10058.0	100.0

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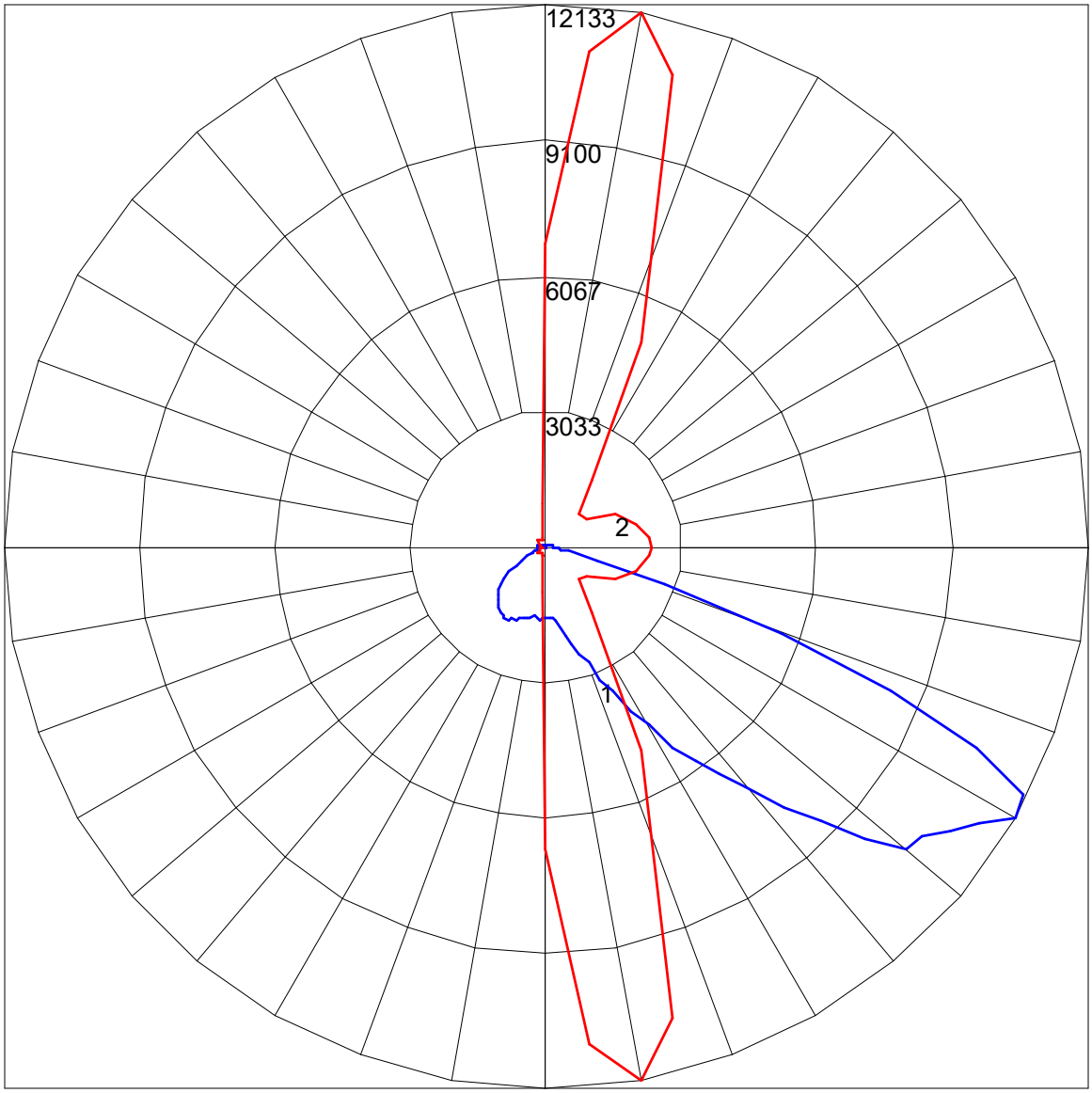
POLAR GRAPH



Maximum Candela = 12133 Located At Horizontal Angle = 80, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

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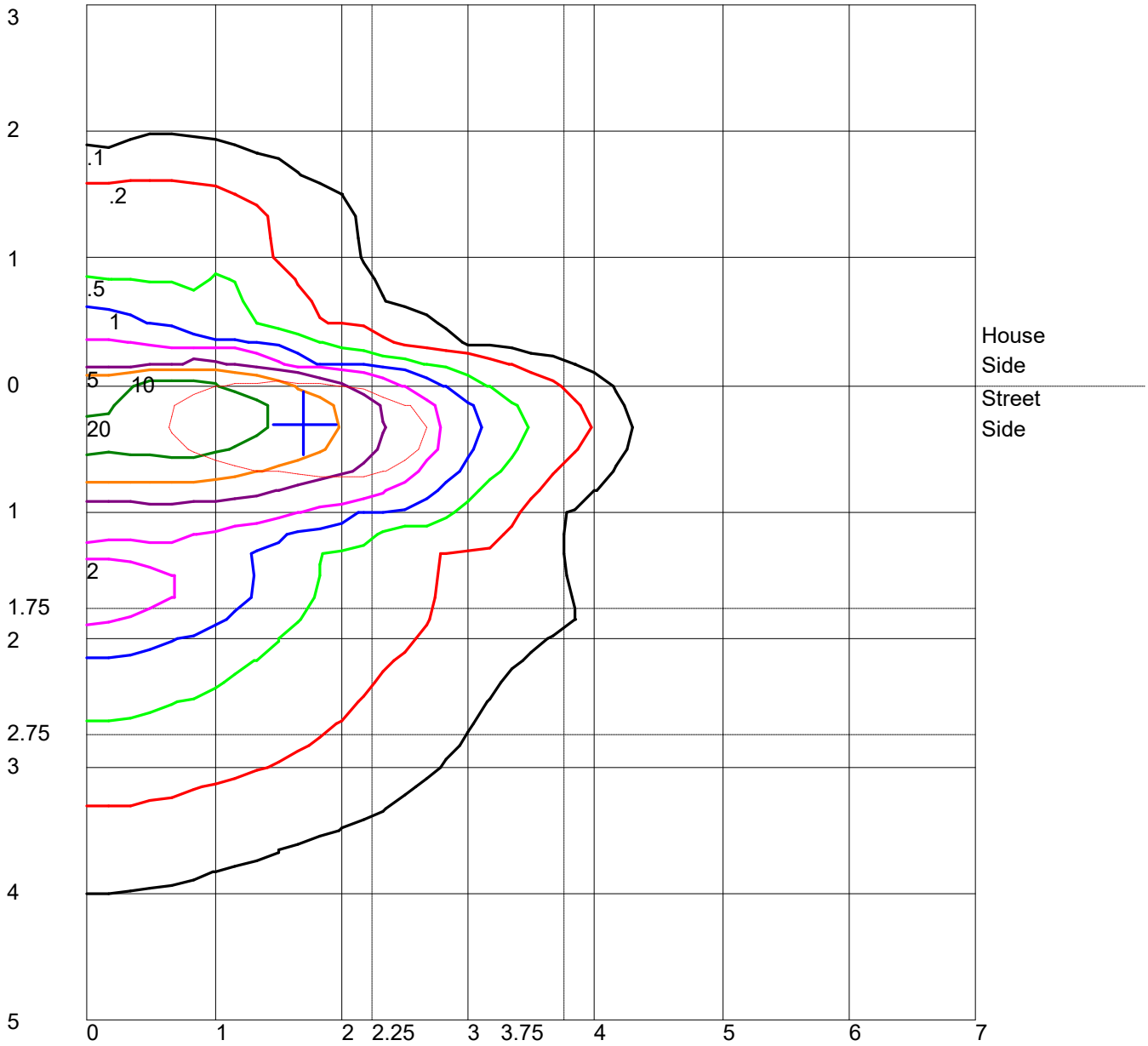
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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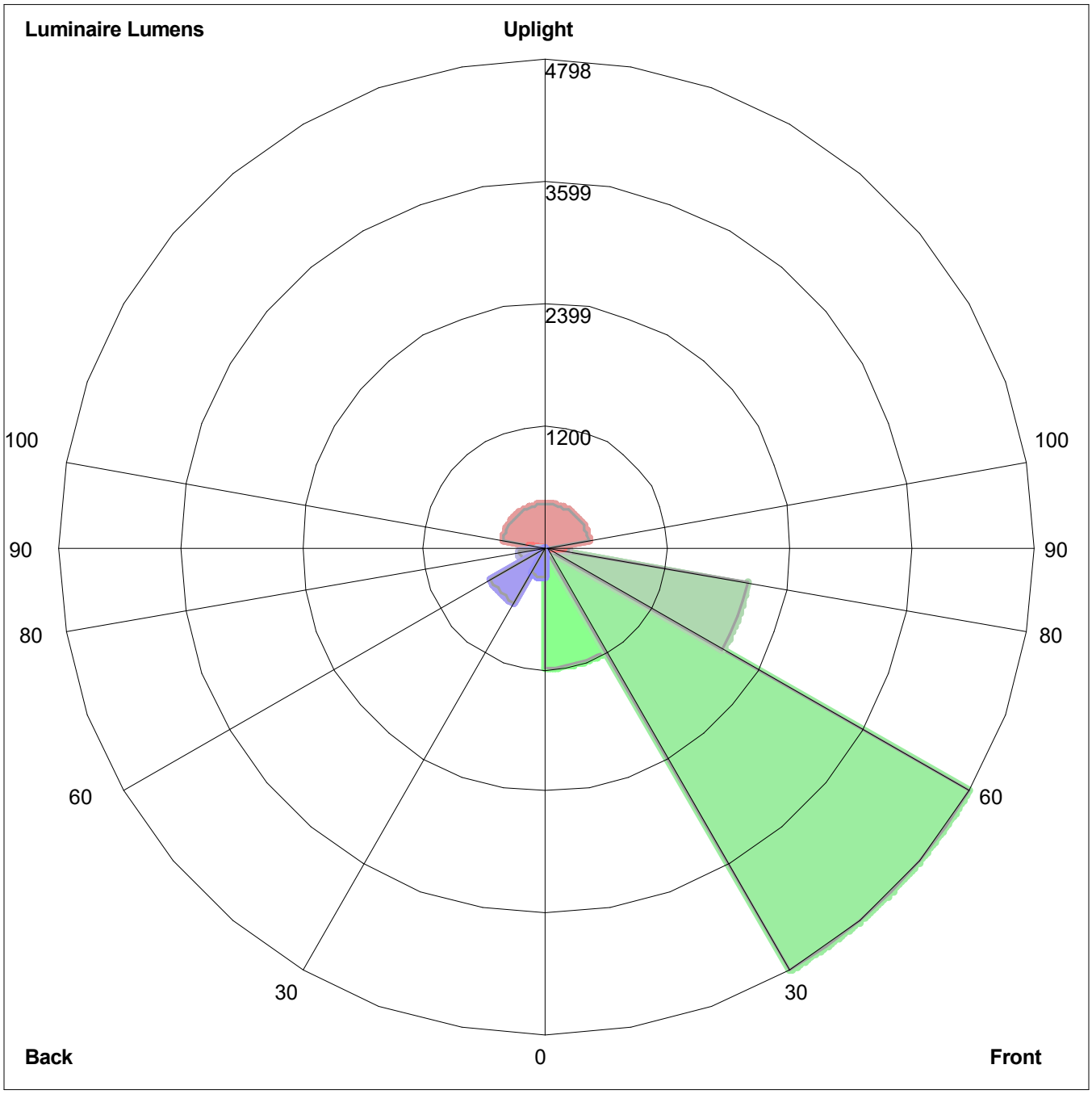
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1180.7, Medium= 4798.0, High=2005.6, Very High=218.9
Back: Low=290.0, Medium=624.2, High=263.8, Very High=89.7
Uplight: Low=164.1, High=422.8

BUG Rating : B1-U3-G2

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