IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-FT-30-70CRI.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-10L-SIL-FT-30-70CRI
[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] 3000

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10385
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	5526
Maximum Candela Angle	37.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	5526
Maximum Candela Angle (<90 Degrees Vertical)	37.5H 67.5V
Maximum Candela At 90 Degrees Vertical	148 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1274 (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)	524.8	N.A.	5.1
FM - Front-Medium (30-60)	3052.6	N.A.	29.4
FH - Front-High (60-80)	3261.7	N.A.	31.4
FVH - Front-Very High (80-90)	180.3	N.A.	1.7
BL - Back-Low (0-30)	469.2	N.A.	4.5
BM - Back-Medium (30-60)	1570.2	N.A.	15.1
BH - Back-High (60-80)	762.1	N.A.	7.3
BVH - Back-Very High (80-90)	131.3	N.A.	1.3
UL - Uplight-Low (90-100)	119.5	N.A.	1.2
UH - Uplight-High (100-180)	313.5	N.A.	3.0
Total	10385.3	N.A.	100.0
BUG Rating	B2-U3-G2		

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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	912	912	912	912	912	912	912	912	912	912
2.5	951	961	958	962	960	956	952	948	939	930
5.0	904	897	919	952	972	971	978	991	988	964
7.5	931	934	903	921	919	918	910	952	995	988
10.0	926	910	928	943	939	951	951	962	982	1005
12.5	979	986	998	984	979	978	975	991	986	1092
15.0	1029	1022	1037	1021	1060	1056	1049	1051	1067	1094
17.5	1127	1121	1136	1117	1091	1096	1119	1115	1127	1158
20.0	1189	1212	1217	1206	1239	1240	1157	1215	1212	1188
22.5	1311	1304	1328	1329	1297	1304	1294	1280	1272	1299
25.0	1448	1458	1441	1396	1441	1427	1363	1343	1368	1334
27.5	1579	1603	1574	1555	1514	1507	1491	1414	1396	1398
30.0	1791	1802	1787	1672	1653	1643	1564	1514	1441	1486
32.5	1915	1926	1896	1869	1805	1766	1707	1622	1526	1529
35.0	2081	2054	2013	1988	1983	1972	1853	1709	1580	1549
37.5	2225	2211	2152	2120	2110	2103	2079	1847	1676	1576
40.0	2406	2371	2324	2280	2259	2252	2261	2005	1781	1569
42.5	2631	2583	2522	2476	2441	2439	2444	2224	1860	1617
45.0	2880	2849	2768	2721	2669	2667	2640	2480	1944	1711
47.5	3183	3164	3079	3028	2969	2950	2889	2692	2134	1828
50.0	3535	3519	3435	3419	3325	3272	3208	2967	2358	2005
52.5	3823	3813	3773	3810	3708	3629	3552	3270	2684	2237
55.0	3982	3985	3997	4123	4102	4048	3939	3612	3033	2358
57.5	4068	4081	4162	4336	4442	4450	4319	4012	3414	2565
60.0	4109	4133	4266	4510	4699	4750	4684	4372	3796	2888
62.5	4145	4176	4372	4687	4945	5018	4986	4705	4049	3163
65.0	4099	4128	4364	4799	5174	5315	5354	4953	4176	3305
67.5	3930	3968	4256	4820	5469	5526	5452	5131	4104	3030
70.0	3266	3369	3783	4578	5457	5484	5452	4954	3645	2569
72.5	1892	2053	2927	3773	4808	5016	5314	4170	2879	1782
75.0	873	992	2026	2815	3729	4007	4244	3232	1925	970
77.5	413	449	1018	1769	2559	2517	2313	1983	1028	594
80.0	336	360	582	899	1274	1271	1068	1053	641	442
82.5	268	294	413	614	698	673	613	572	390	323
85.0	205	229	305	368	362	342	371	280	222	249
87.5	138	151	194	213	141	132	171	147	156	169
90.0	43	53	77	87	99	102	109	114	121	130
92.5	49	55	78	89	100	103	110	114	122	129
95.0	56	57	79	91	102	104	111	112	121	125
97.5	60	59	80	92	102	104	110	110	117	108
100.0	65	60	80	92	102	104	109	108	108	85
102.5	69	63	79	93	102	103	108	103	97	75
105.0	71	66	78	94	101	102	104	95	84	70
107.5	73	69	77	94	100	101	100	85	74	66
110.0	73	71	76	93	98	98	93	77	66	64
112.5	74	73	75	92	94	93	84	71	61	62
115.0	75	74	74	89	88	86	78	66	59	61
117.5	75	75	73	84	83	81	73	64	57	60
120.0	75	75	71	79	78	76	70	62	57	59
122.5	74	73	69	73	74	73	68	60	56	58
125.0	72	72	66	69	71	70	66	60	57	57
127.5	70	69	65	65	68	68	66	61	57	58
130.0	67	67	64	63	66	66	66	62	59	59

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CANDELA TABULATION - (Cont.)

132.5	66	66	64	62	66	66	64	60	59	60
135.0	66	66	64	62	61	60	59	56	59	62
137.5	64	65	62	57	52	50	48	49	55	61
140.0	57	56	52	46	40	39	37	41	47	54
142.5	46	45	41	36	29	28	28	32	37	45
145.0	35	34	31	25	20	20	19	23	29	35
147.5	23	23	21	17	12	12	10	13	19	23
150.0	16	16	14	10	4	4	3	6	11	14
152.5	9	8	6	3	1	1	1	2	4	7
155.0	3	2	2	1	1	1	1	1	2	3
157.5	1	1	1	1	1	1	1	1	1	2
160.0	1	1	1	1	1	1	1	1	1	2
162.5	1	0	1	1	1	1	1	1	1	2
165.0	0	0	1	1	1	1	1	1	1	2
167.5	0	0	1	1	1	1	1	1	1	2
170.0	1	0	1	1	1	1	1	1	2	2
172.5	0	0	1	1	1	1	1	1	2	2
175.0	0	0	1	1	1	1	1	1	1	2
177.5	1	0	1	1	1	1	1	1	2	2
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	912	912	912	912	912	912	912	912	912	912
2.5	924	915	916	909	902	905	902	897	894	895
5.0	940	916	899	910	960	965	951	945	930	922
7.5	971	940	928	956	968	957	943	909	872	848
10.0	989	971	950	990	957	933	887	878	876	847
12.5	1085	1029	1010	1055	978	903	878	885	871	902
15.0	1126	1074	1058	1073	986	952	895	945	955	970
17.5	1199	1152	1143	1133	1014	958	1024	1001	1000	1040
20.0	1270	1196	1199	1150	1055	1037	1034	1058	1078	1106
22.5	1349	1300	1290	1195	1078	1101	1101	1154	1137	1207
25.0	1385	1379	1336	1203	1128	1126	1175	1189	1234	1267
27.5	1470	1419	1423	1255	1146	1187	1220	1276	1286	1364
30.0	1512	1456	1474	1316	1195	1249	1295	1310	1363	1419
32.5	1517	1471	1478	1347	1228	1281	1314	1381	1456	1535
35.0	1531	1466	1485	1333	1222	1293	1367	1445	1499	1570
37.5	1528	1474	1501	1311	1213	1286	1386	1455	1510	1597
40.0	1517	1509	1482	1278	1206	1263	1397	1440	1519	1636
42.5	1555	1487	1489	1255	1181	1251	1372	1424	1534	1775
45.0	1572	1491	1503	1256	1125	1260	1343	1397	1569	1903
47.5	1605	1533	1473	1235	1085	1244	1308	1358	1701	1713
50.0	1654	1587	1483	1228	1040	1198	1261	1322	1692	1555
52.5	1778	1628	1542	1226	1019	1159	1203	1326	1575	1445
55.0	1898	1727	1582	1192	1002	1112	1140	1326	1449	1354
57.5	2059	1828	1618	1162	957	1038	1070	1278	1335	1267
60.0	2206	1905	1681	1136	895	947	981	1192	1225	1176
62.5	2298	1939	1655	1089	820	855	891	1100	1111	1085
65.0	2258	1888	1535	999	735	759	799	1007	997	996
67.5	2038	1631	1333	877	666	672	718	923	875	882
70.0	1606	1204	949	733	591	606	645	830	742	802
72.5	1032	812	594	578	510	532	567	716	647	727
75.0	578	503	431	459	440	445	497	615	517	590
77.5	381	344	304	362	355	365	417	480	425	545

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CANDELA TABULATION - (Cont.)

80.0	305	271	236	300	285	287	329	358	367	481
82.5	239	211	191	260	246	240	264	279	318	396
85.0	200	146	167	224	205	202	210	221	272	304
87.5	160	82	154	180	173	168	179	173	183	220
90.0	105	62	129	147	144	136	148	144	139	135
92.5	83	96	115	142	139	130	139	136	130	122
95.0	84	118	108	137	134	121	134	132	128	121
97.5	94	119	108	127	127	112	128	127	125	116
100.0	98	112	107	112	120	108	123	123	121	111
102.5	94	105	102	100	112	106	119	119	118	106
105.0	88	97	95	92	104	103	114	116	114	98
107.5	83	88	89	86	96	100	111	114	111	91
110.0	77	83	84	83	89	96	108	112	108	84
112.5	73	77	79	79	84	93	105	110	106	79
115.0	69	73	75	77	80	89	101	108	102	74
117.5	66	70	71	75	77	87	98	104	96	71
120.0	63	67	69	73	76	85	94	99	89	69
122.5	61	64	67	72	75	84	91	93	82	67
125.0	60	62	65	70	75	83	88	87	75	66
127.5	60	62	64	70	74	82	84	82	69	65
130.0	60	62	65	70	74	81	82	77	65	64
132.5	62	63	66	70	73	78	79	71	62	63
135.0	64	65	67	71	71	70	71	67	62	63
137.5	65	67	68	69	65	60	60	60	61	63
140.0	60	62	62	60	56	50	46	48	53	59
142.5	51	53	52	50	44	37	34	36	42	49
145.0	39	40	41	37	33	27	23	25	32	37
147.5	27	27	28	26	22	16	14	17	21	26
150.0	16	16	16	16	12	7	6	11	14	16
152.5	9	9	9	8	5	2	2	3	7	11
155.0	4	4	4	3	2	2	1	1	1	2
157.5	2	2	2	2	2	1	1	0	0	0
160.0	2	2	2	2	2	1	1	0	0	0
162.5	2	2	2	2	2	1	1	0	0	0
165.0	2	2	2	2	2	1	1	0	0	0
167.5	2	2	2	2	2	1	1	0	0	0
170.0	2	2	2	2	2	1	1	0	0	0
172.5	2	2	2	2	2	1	1	0	0	0
175.0	2	2	2	2	2	1	1	0	0	0
177.5	2	2	2	2	2	1	1	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	**Horizontal Angles**	
	175.0	**180.0**
0.0	912	912
2.5	901	909
5.0	921	914
7.5	852	848
10.0	857	862
12.5	909	914
15.0	974	937
17.5	1024	1075
20.0	1104	1079
22.5	1206	1206
25.0	1279	1265

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CANDELA TABULATION - (Cont.)

27.5	1393	1411
30.0	1480	1477
32.5	1586	1589
35.0	1627	1634
37.5	1664	1689
40.0	1743	1799
42.5	1898	1912
45.0	1710	1704
47.5	1578	1586
50.0	1499	1500
52.5	1422	1420
55.0	1345	1344
57.5	1261	1253
60.0	1171	1166
62.5	1081	1079
65.0	999	995
67.5	882	872
70.0	813	800
72.5	697	641
75.0	575	547
77.5	570	545
80.0	546	520
82.5	460	441
85.0	354	352
87.5	247	264
90.0	115	97
92.5	77	60
95.0	76	70
97.5	73	79
100.0	72	83
102.5	71	84
105.0	72	84
107.5	73	83
110.0	75	81
112.5	75	79
115.0	75	77
117.5	74	75
120.0	73	74
122.5	72	73
125.0	71	71
127.5	69	70
130.0	67	67
132.5	65	66
135.0	64	64
137.5	64	64
140.0	61	62
142.5	52	52
145.0	40	41
147.5	30	30
150.0	18	19
152.5	12	12
155.0	4	4
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	1	1

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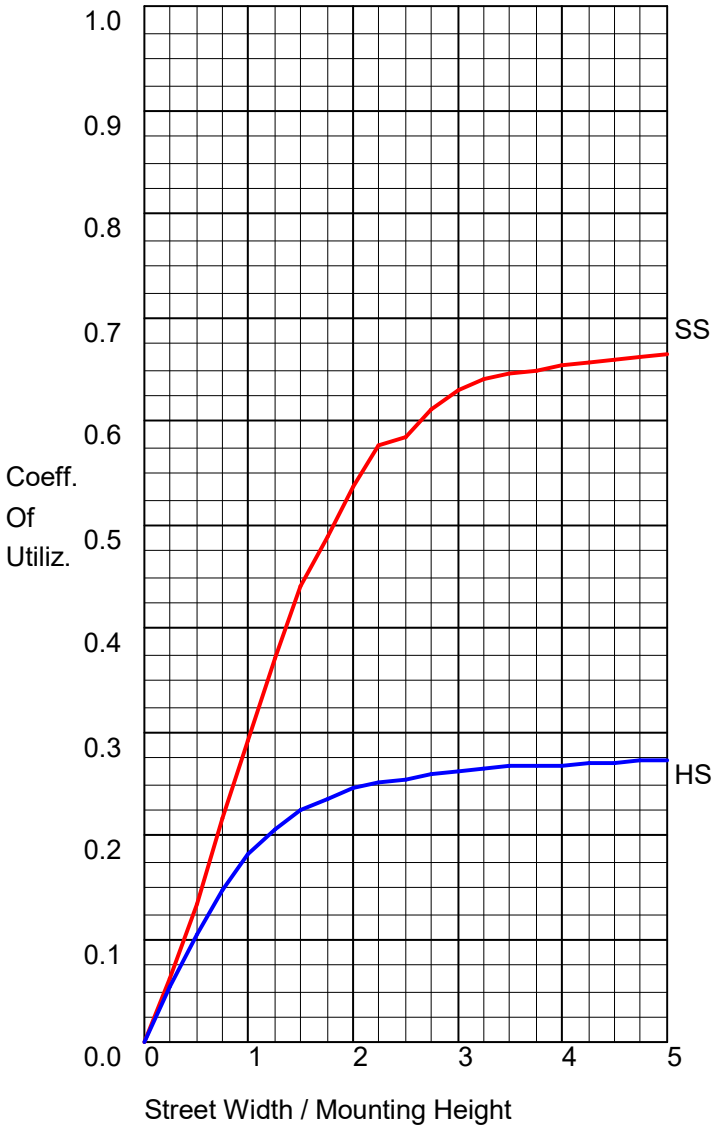
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	7019.4	67.6
Downward House Side	2932.9	28.2
Downward Total	9952.3	95.8
Upward Street Side	198.3	1.9
Upward House Side	234.7	2.3
Upward Total	433.0	4.2
Total Flux	10385.3	100.0

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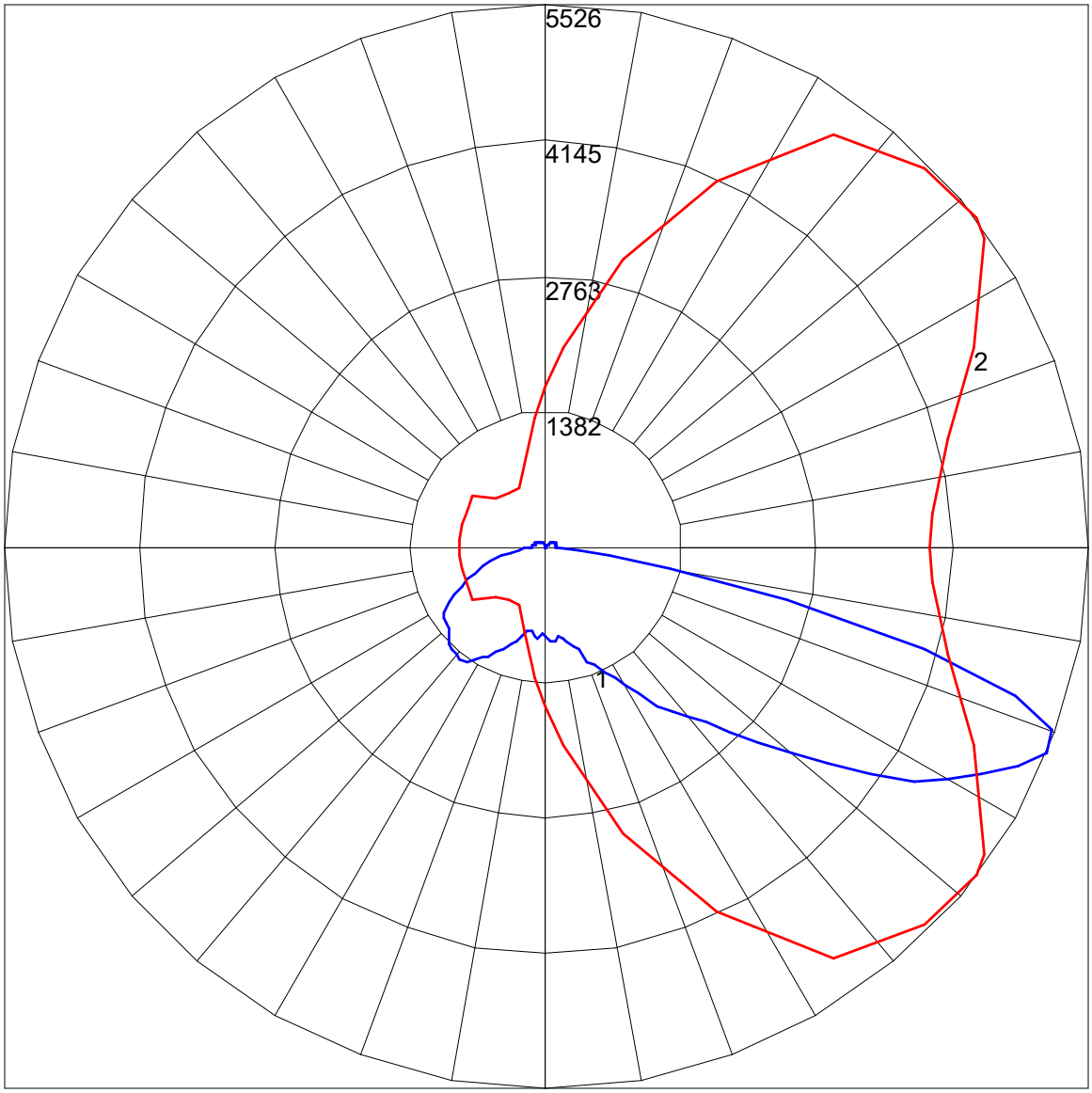
POLAR GRAPH



Maximum Candela = 5526 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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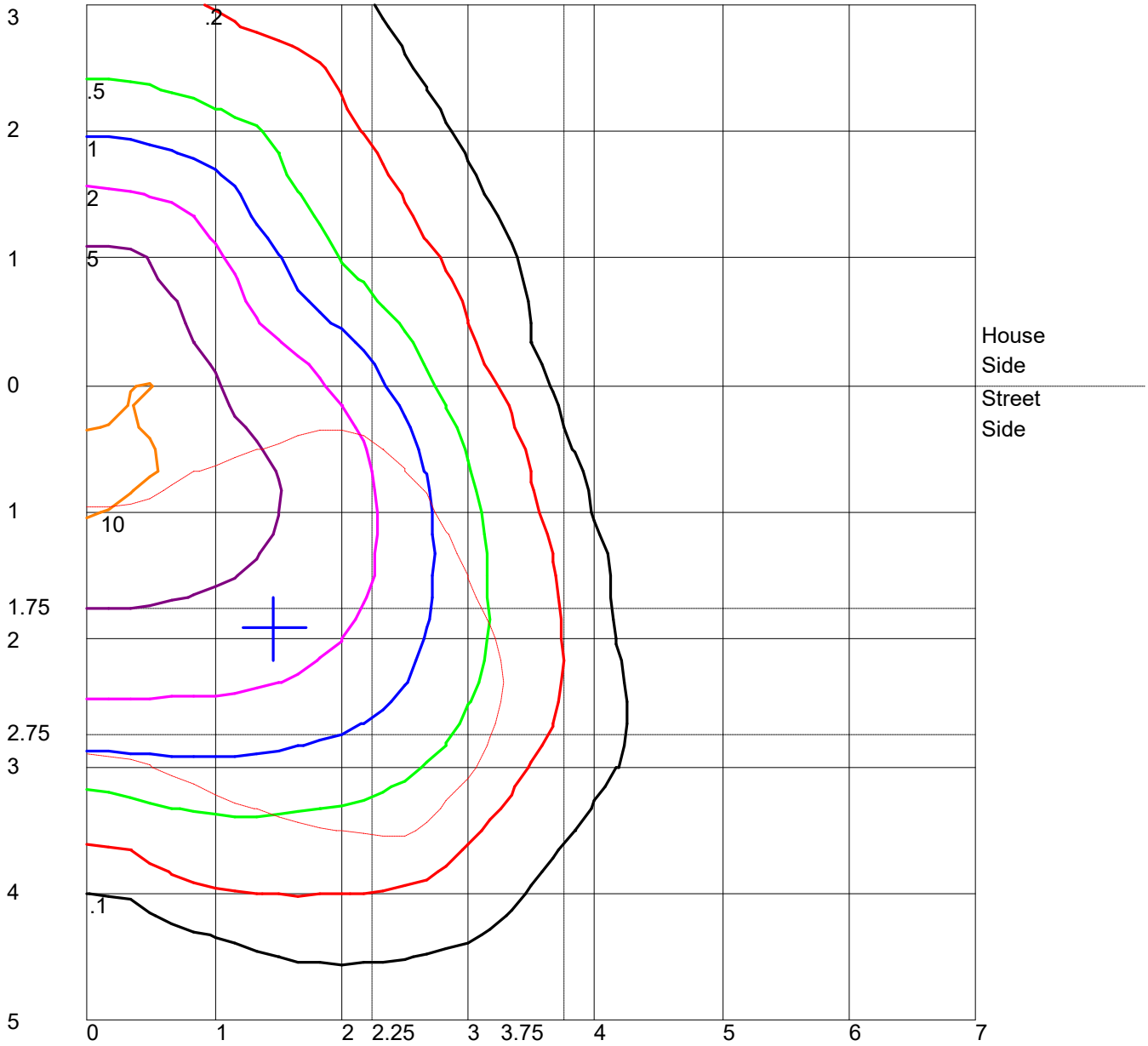
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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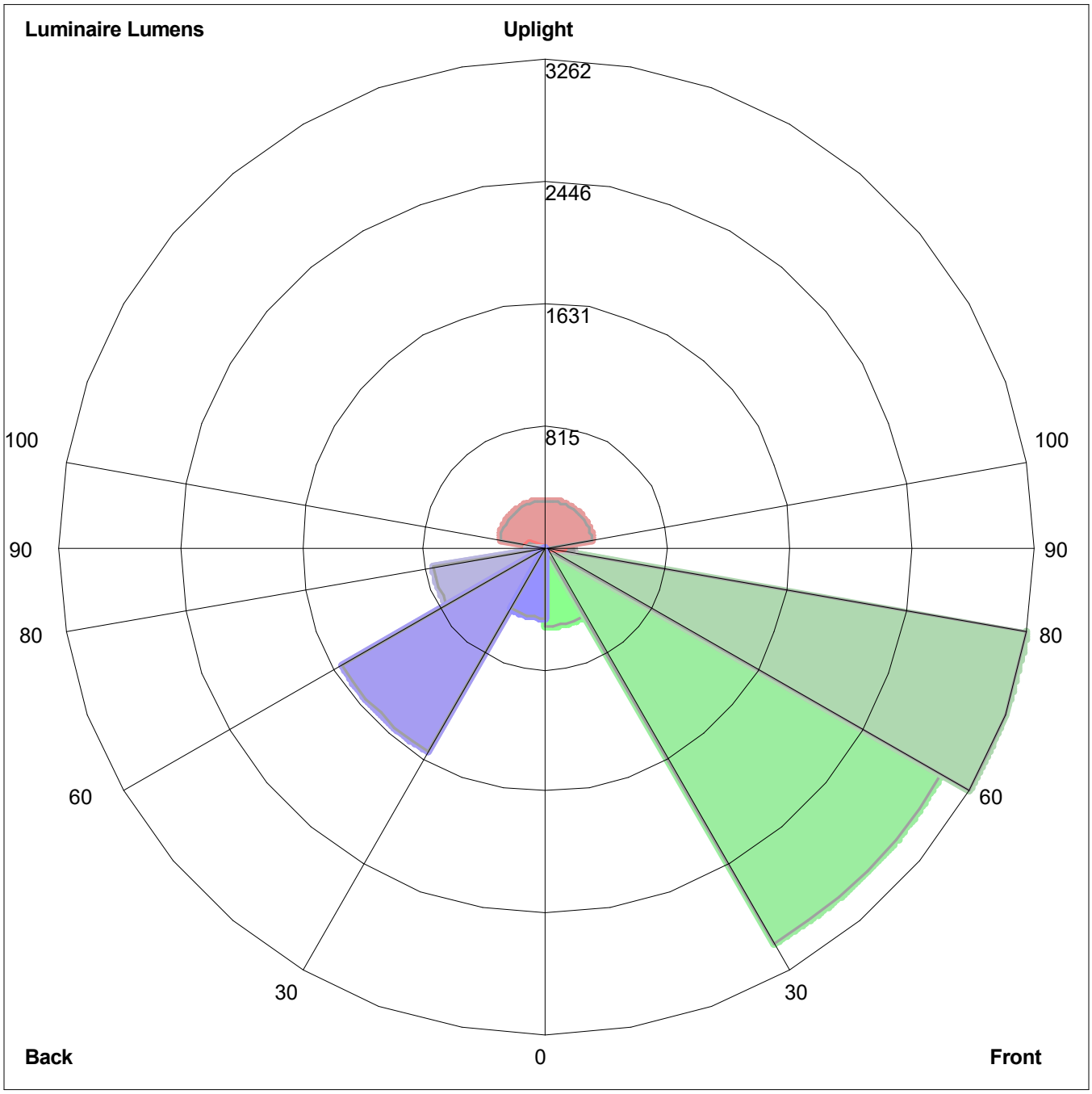
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=524.8, Medium=3052.6, High=3261.7, Very High=180.3
Back: Low=469.2, Medium=1570.2, High=762.1, Very High=131.3
Uplight: Low=119.5, High=313.5

BUG Rating : B2-U3-G2

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