IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-FT-50-70CRI-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-10L-SIL-FT-50-70CRI-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] 5000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7691
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	5101
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	5101
Maximum Candela Angle (<90 Degrees Vertical)	45H 67.5V
Maximum Candela At 90 Degrees Vertical	111 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	592 (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)	488.5	N.A.	6.4
FM - Front-Medium (30-60)	3037.4	N.A.	39.5
FH - Front-High (60-80)	2481.0	N.A.	32.3
FVH - Front-Very High (80-90)	96.2	N.A.	1.3
BL - Back-Low (0-30)	316.6	N.A.	4.1
BM - Back-Medium (30-60)	616.1	N.A.	8.0
BH - Back-High (60-80)	251.1	N.A.	3.3
BVH - Back-Very High (80-90)	55.2	N.A.	0.7
UL - Uplight-Low (90-100)	92.4	N.A.	1.2
UH - Uplight-High (100-180)	256.3	N.A.	3.3
Total	7690.8	N.A.	100.0
BUG Rating	B1-U3-G2		

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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	827	827	827	827	827	827	827	827	827	827
2.5	864	867	869	866	868	864	865	858	853	851
5.0	798	787	801	845	882	891	898	894	887	871
7.5	814	815	807	819	827	809	807	840	891	882
10.0	811	802	821	829	832	834	837	850	860	907
12.5	842	872	889	876	875	866	856	867	874	977
15.0	902	901	933	907	947	936	940	937	955	980
17.5	1009	999	1023	1018	986	1001	1026	1007	1032	1044
20.0	1112	1129	1112	1097	1134	1072	1073	1116	1116	1101
22.5	1226	1221	1255	1236	1200	1195	1201	1176	1180	1196
25.0	1457	1432	1395	1329	1356	1309	1276	1256	1269	1231
27.5	1561	1590	1526	1512	1464	1455	1448	1358	1307	1317
30.0	1804	1818	1798	1656	1619	1591	1554	1461	1374	1370
32.5	1959	1959	1925	1875	1812	1753	1714	1590	1474	1427
35.0	2110	2097	2057	2010	2007	1950	1906	1705	1547	1457
37.5	2285	2246	2199	2164	2142	2157	2131	1863	1632	1480
40.0	2475	2419	2374	2342	2300	2331	2319	2036	1753	1496
42.5	2673	2638	2574	2548	2503	2529	2496	2285	1839	1517
45.0	2910	2882	2821	2794	2738	2738	2717	2516	1985	1662
47.5	3236	3184	3130	3093	3025	2984	2985	2758	2157	1809
50.0	3539	3510	3481	3460	3363	3318	3295	3042	2421	1963
52.5	3713	3716	3731	3816	3739	3665	3641	3414	2751	2169
55.0	3773	3797	3844	4040	4090	4041	4013	3779	3120	2341
57.5	3776	3811	3901	4172	4351	4424	4343	4130	3450	2445
60.0	3746	3790	3927	4267	4520	4676	4636	4463	3674	2605
62.5	3588	3647	3866	4341	4654	4809	4880	4710	3778	2912
65.0	2880	2954	3347	4174	4806	4983	5057	4662	3791	2972
67.5	1936	1953	2408	3416	4676	5084	5101	4420	3741	2874
70.0	1032	1143	1536	2359	3710	4540	4622	4119	3422	2459
72.5	544	605	1032	1511	2331	3016	3292	3617	2692	1608
75.0	391	418	800	1172	1565	1894	2009	2276	1417	764
77.5	302	322	465	799	1147	1101	1125	1210	791	468
80.0	228	247	333	428	566	584	592	591	417	334
82.5	179	195	259	322	295	236	219	186	179	241
85.0	143	152	203	194	127	109	106	110	123	147
87.5	77	82	96	81	76	82	84	90	97	111
90.0	31	36	51	60	70	77	79	85	91	98
92.5	34	38	52	62	71	79	81	86	92	99
95.0	39	40	53	63	72	79	82	86	93	97
97.5	43	42	55	65	73	79	82	85	92	84
100.0	47	45	56	66	74	80	82	83	86	63
102.5	50	47	57	68	75	80	81	80	75	54
105.0	53	50	58	69	75	79	80	74	65	49
107.5	54	52	58	71	76	78	77	66	56	49
110.0	56	55	59	71	76	74	72	58	49	49
112.5	58	57	60	71	73	68	65	53	46	48
115.0	60	59	60	71	69	62	60	51	44	47
117.5	60	60	60	67	64	58	56	49	43	47
120.0	61	61	59	63	60	55	54	48	43	46
122.5	61	60	57	59	57	54	52	47	43	45
125.0	60	59	55	55	55	53	51	47	44	45
127.5	58	57	54	54	54	52	51	48	45	45
130.0	56	56	54	53	54	53	52	49	45	47

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CANDELA TABULATION - (Cont.)

132.5	55	55	53	53	54	53	51	47	46	48
135.0	55	55	54	53	51	48	47	44	46	49
137.5	55	55	52	48	44	41	40	39	43	48
140.0	49	49	45	40	34	32	31	33	37	42
142.5	40	40	36	31	26	24	24	26	30	35
145.0	31	30	28	22	18	17	17	18	23	28
147.5	20	20	19	15	12	9	9	11	15	20
150.0	15	14	13	9	4	3	3	5	8	12
152.5	7	7	4	2	2	2	2	3	4	6
155.0	2	2	1	1	1	1	1	2	3	4
157.5	0	0	1	1	1	1	1	1	2	2
160.0	0	0	0	1	1	1	1	1	2	2
162.5	0	0	0	1	1	1	1	1	1	2
165.0	0	0	1	1	1	1	1	1	2	2
167.5	0	0	0	1	1	1	1	1	1	2
170.0	0	0	0	1	1	1	1	1	1	2
172.5	0	0	1	1	1	1	1	1	2	2
175.0	0	0	1	1	1	1	1	1	2	2
177.5	0	0	1	1	1	1	1	1	1	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	827	827	827	827	827	827	827	827	827	827
2.5	845	837	833	815	809	807	803	802	805	806
5.0	866	838	825	817	856	874	869	864	863	853
7.5	875	860	834	855	876	886	873	830	785	774
10.0	912	886	850	889	877	853	800	798	768	767
12.5	991	959	911	952	894	822	787	765	749	748
15.0	1046	1007	956	1004	889	838	778	770	744	711
17.5	1110	1076	1047	1054	937	851	814	725	648	608
20.0	1168	1139	1123	1069	964	842	742	633	567	513
22.5	1263	1218	1214	1113	957	832	658	557	463	425
25.0	1298	1290	1261	1141	945	757	578	461	407	378
27.5	1374	1336	1325	1180	910	667	495	418	363	342
30.0	1408	1366	1367	1224	850	588	452	376	341	328
32.5	1419	1370	1364	1207	770	526	414	352	325	340
35.0	1420	1364	1379	1148	675	484	387	336	336	353
37.5	1436	1373	1389	1088	590	447	365	340	340	382
40.0	1460	1404	1385	1016	536	414	357	335	356	433
42.5	1451	1396	1393	937	503	390	356	331	382	541
45.0	1511	1396	1422	872	465	391	353	323	409	553
47.5	1539	1452	1389	823	427	403	342	313	422	350
50.0	1609	1512	1389	812	409	399	331	299	361	245
52.5	1721	1547	1425	801	409	387	314	286	289	207
55.0	1845	1633	1450	820	421	355	289	265	234	187
57.5	1886	1616	1429	770	395	309	252	238	204	175
60.0	1959	1683	1435	762	331	248	213	205	182	163
62.5	2056	1694	1417	745	245	196	180	178	164	150
65.0	2021	1661	1324	634	188	169	163	161	149	137
67.5	1867	1502	1155	423	165	156	153	149	132	125
70.0	1509	1123	794	262	154	148	143	132	121	139
72.5	879	646	460	170	144	140	131	123	142	172
75.0	428	384	288	148	135	128	122	128	126	118
77.5	286	262	165	140	126	117	116	110	106	107

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CANDELA TABULATION - (Cont.)

80.0	224	196	130	133	115	112	115	105	100	98
82.5	181	152	104	124	111	109	109	104	99	96
85.0	149	100	98	115	108	101	109	104	100	95
87.5	122	49	107	111	105	100	109	105	100	95
90.0	84	44	103	111	106	100	110	106	102	95
92.5	56	79	96	113	109	102	113	109	104	98
95.0	55	97	92	111	109	98	111	109	106	100
97.5	73	96	89	104	103	90	105	105	104	98
100.0	77	91	87	93	97	86	101	102	102	95
102.5	74	84	82	85	92	85	97	99	100	91
105.0	69	77	76	77	86	84	93	96	98	86
107.5	64	70	71	71	79	81	92	95	96	80
110.0	60	65	66	67	74	79	90	93	93	74
112.5	56	61	62	64	69	77	88	92	91	68
115.0	54	58	59	62	66	75	85	92	88	64
117.5	51	55	57	61	64	73	83	89	84	60
120.0	50	53	55	60	62	72	81	85	78	59
122.5	49	51	53	58	62	71	78	81	72	58
125.0	47	49	52	57	62	70	76	77	66	57
127.5	47	49	51	57	62	69	74	72	60	56
130.0	48	50	52	57	61	69	71	68	57	56
132.5	49	51	53	58	60	66	68	63	54	55
135.0	51	52	54	58	59	60	62	59	53	55
137.5	52	53	55	56	55	52	52	51	53	55
140.0	48	49	50	50	47	43	39	40	46	51
142.5	40	42	42	40	37	32	29	31	36	42
145.0	31	32	32	31	28	24	20	22	28	32
147.5	22	23	23	22	19	15	13	16	19	23
150.0	13	14	14	13	11	7	7	10	13	15
152.5	7	8	7	7	5	4	4	4	8	10
155.0	4	4	4	4	4	3	2	2	2	4
157.5	3	3	3	3	3	2	2	2	1	1
160.0	2	2	2	2	2	2	2	1	1	0
162.5	2	2	2	2	2	2	2	1	1	0
165.0	2	2	2	2	2	2	2	1	1	0
167.5	2	2	2	2	2	2	2	1	0	0
170.0	2	2	2	2	2	2	2	1	0	0
172.5	2	2	2	2	2	2	2	1	0	0
175.0	2	2	2	2	2	2	2	1	0	0
177.5	2	2	2	2	2	2	1	1	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	**Horizontal Angles**	
	175.0	**180.0**
0.0	827	827
2.5	810	812
5.0	851	860
7.5	764	764
10.0	761	776
12.5	742	737
15.0	687	704
17.5	592	588
20.0	486	484
22.5	406	401
25.0	360	358

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CANDELA TABULATION - (Cont.)

27.5	340	340
30.0	331	331
32.5	350	352
35.0	374	374
37.5	411	414
40.0	473	483
42.5	585	561
45.0	345	330
47.5	251	249
50.0	214	214
52.5	194	194
55.0	179	181
57.5	166	167
60.0	152	153
62.5	139	140
65.0	127	130
67.5	119	121
70.0	151	152
72.5	170	145
75.0	105	97
77.5	94	80
80.0	82	60
82.5	75	48
85.0	68	41
87.5	66	42
90.0	62	41
92.5	61	49
95.0	63	59
97.5	62	66
100.0	61	71
102.5	61	73
105.0	62	74
107.5	64	73
110.0	66	71
112.5	66	69
115.0	66	67
117.5	65	66
120.0	64	64
122.5	62	63
125.0	62	62
127.5	60	60
130.0	58	59
132.5	57	57
135.0	56	56
137.5	55	55
140.0	53	54
142.5	45	45
145.0	34	35
147.5	25	26
150.0	16	17
152.5	11	11
155.0	5	5
157.5	1	1
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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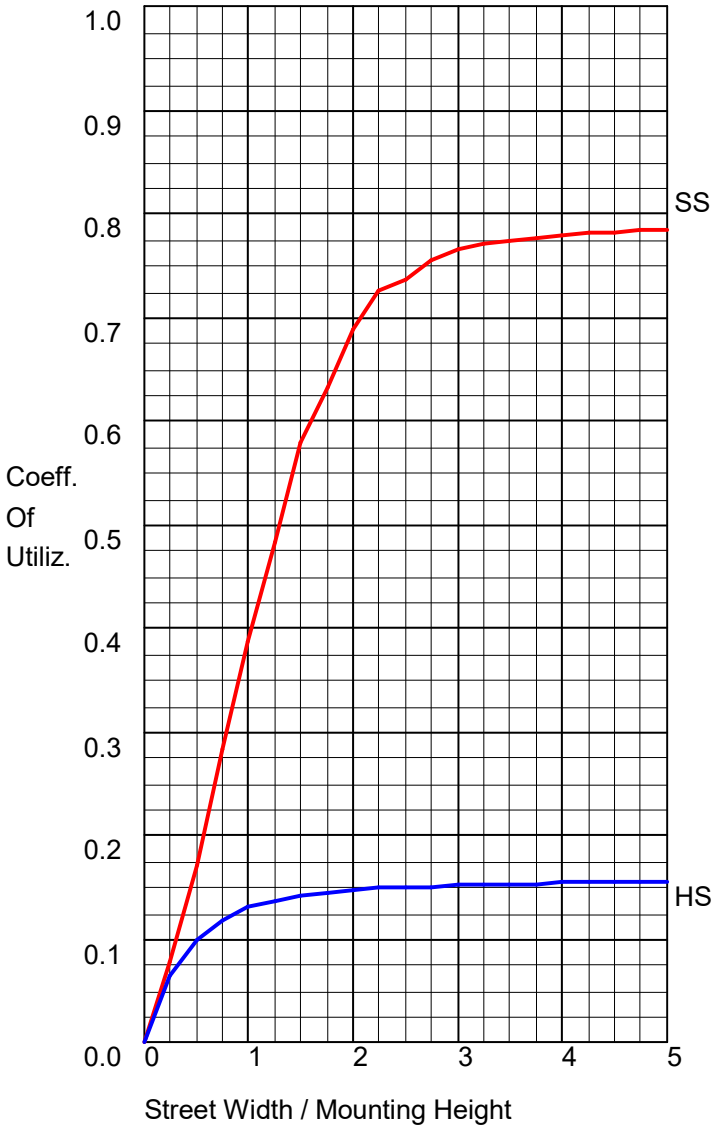
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	6103.0	79.4
Downward House Side	1239.0	16.1
Downward Total	7342.0	95.5
Upward Street Side	153.2	2.0
Upward House Side	195.5	2.5
Upward Total	348.7	4.5
Total Flux	7690.7	100.0

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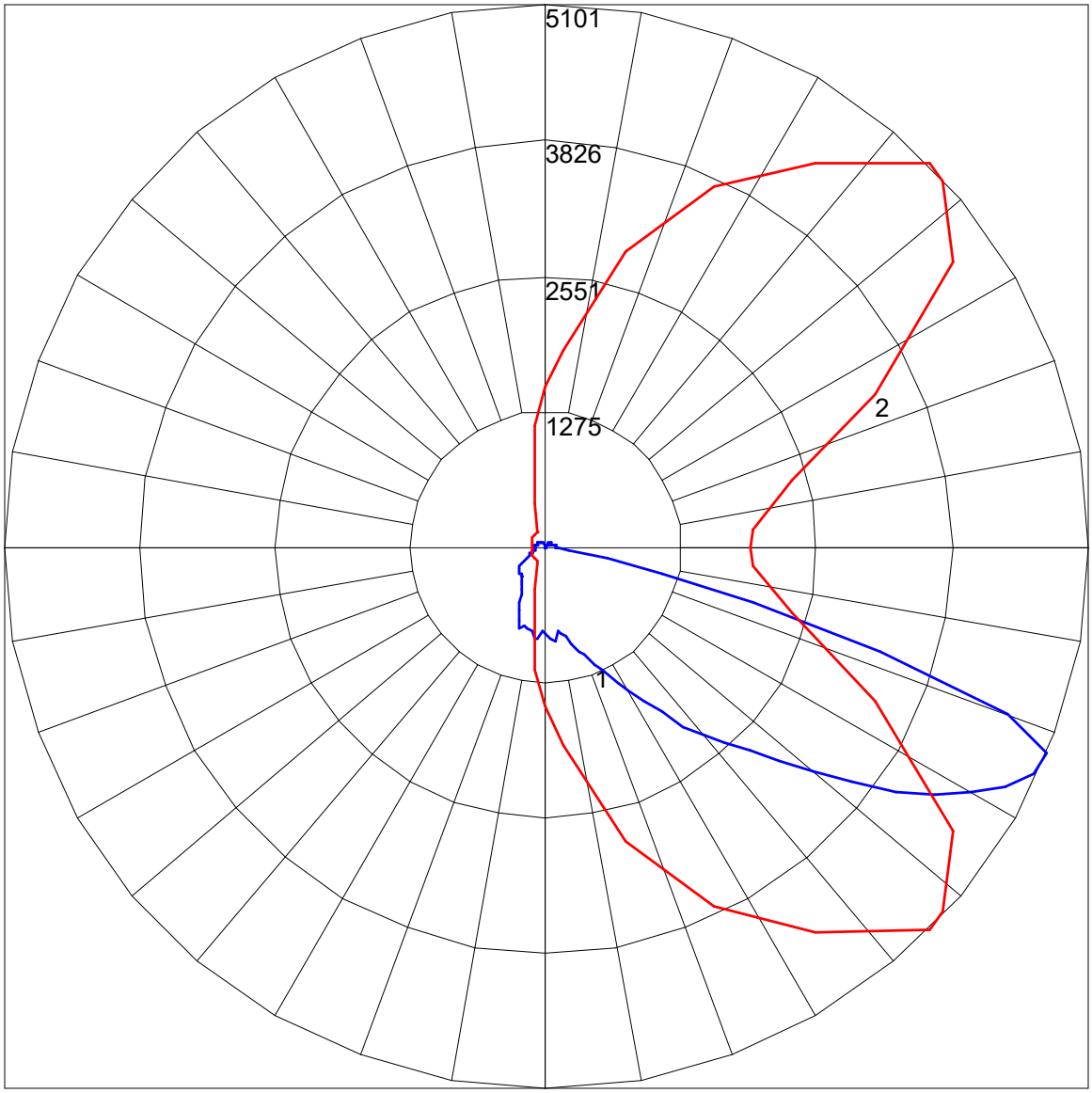
POLAR GRAPH



Maximum Candela = 5101 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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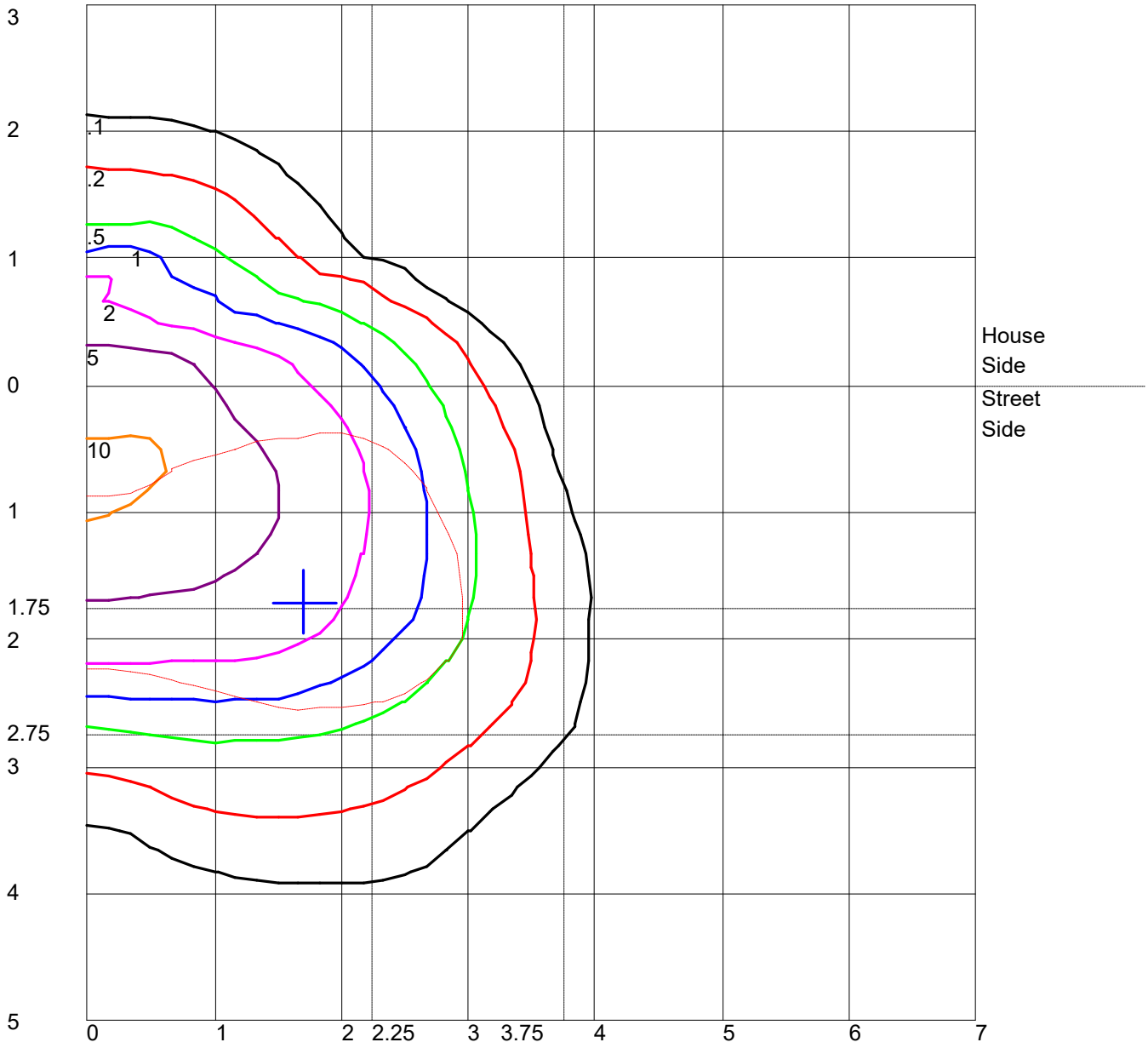
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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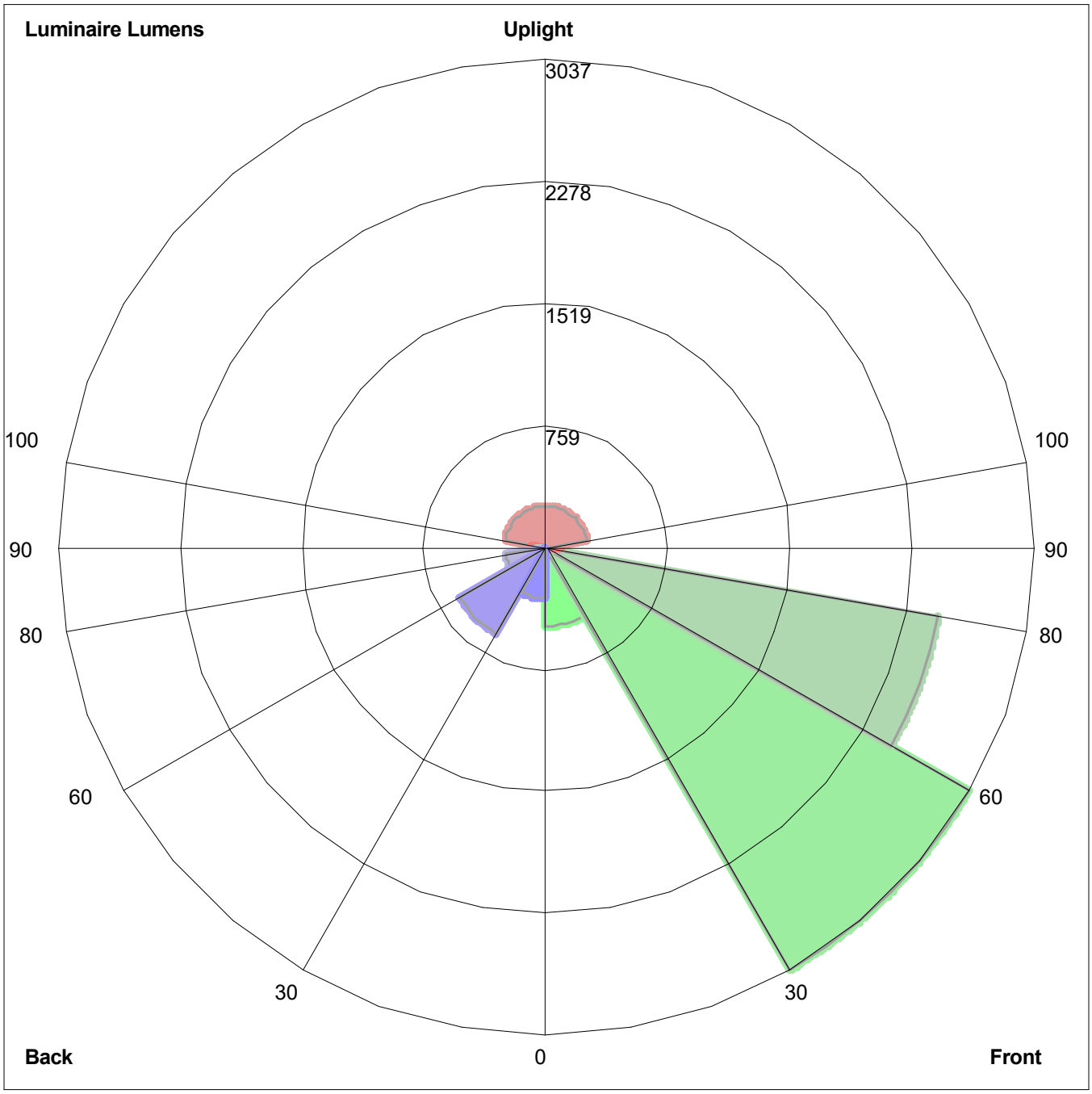
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=488.5, Medium=3037.4, High= 2481.0, Very High=96.2
Back: Low=316.6, Medium=616.1, High=251.1, Very High=55.2
Uplight: Low=92.4, High=256.3

BUG Rating : B1-U3-G2

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