IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-FT-40-70CRI-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-40-70CRI-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] 4000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7817
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	5184
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	5184
Maximum Candela Angle (<90 Degrees Vertical)	45H 67.5V
Maximum Candela At 90 Degrees Vertical	113 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	602 (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)	496.4	N.A.	6.4
FM - Front-Medium (30-60)	3087.1	N.A.	39.5
FH - Front-High (60-80)	2521.6	N.A.	32.3
FVH - Front-Very High (80-90)	97.7	N.A.	1.2
BL - Back-Low (0-30)	321.8	N.A.	4.1
BM - Back-Medium (30-60)	626.2	N.A.	8.0
BH - Back-High (60-80)	255.2	N.A.	3.3
BVH - Back-Very High (80-90)	56.2	N.A.	0.7
UL - Uplight-Low (90-100)	94.0	N.A.	1.2
UH - Uplight-High (100-180)	260.5	N.A.	3.3
Total	7816.7	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	841	841	841	841	841	841	841	841	841	841
2.5	878	881	883	880	882	878	879	872	867	865
5.0	811	800	814	859	896	906	913	909	902	885
7.5	827	828	820	832	841	822	820	854	906	896
10.0	824	815	834	843	846	848	851	864	874	922
12.5	856	886	904	890	889	880	870	881	888	993
15.0	917	916	948	922	963	951	955	952	971	996
17.5	1026	1015	1040	1035	1002	1017	1043	1023	1049	1061
20.0	1130	1147	1130	1115	1153	1090	1091	1134	1134	1119
22.5	1246	1241	1276	1256	1220	1215	1221	1195	1199	1216
25.0	1481	1455	1418	1351	1378	1330	1297	1277	1290	1251
27.5	1587	1616	1551	1537	1488	1479	1472	1380	1328	1339
30.0	1834	1848	1827	1683	1645	1617	1579	1485	1396	1392
32.5	1991	1991	1956	1906	1842	1782	1742	1616	1498	1450
35.0	2145	2131	2091	2043	2040	1982	1937	1733	1572	1481
37.5	2322	2283	2235	2199	2177	2192	2166	1893	1659	1504
40.0	2516	2459	2413	2380	2338	2369	2357	2069	1782	1520
42.5	2717	2681	2616	2590	2544	2570	2537	2322	1869	1542
45.0	2958	2929	2867	2840	2783	2783	2761	2557	2017	1689
47.5	3289	3236	3181	3144	3074	3033	3034	2803	2192	1839
50.0	3597	3567	3538	3517	3418	3372	3349	3092	2461	1995
52.5	3774	3777	3792	3878	3800	3725	3701	3470	2796	2204
55.0	3835	3859	3907	4106	4157	4107	4079	3841	3171	2379
57.5	3838	3873	3965	4240	4422	4496	4414	4198	3506	2485
60.0	3807	3852	3991	4337	4594	4753	4712	4536	3734	2648
62.5	3647	3707	3929	4412	4730	4888	4960	4787	3840	2960
65.0	2927	3002	3402	4242	4885	5065	5140	4738	3853	3021
67.5	1968	1985	2447	3472	4753	5167	5184	4492	3802	2921
70.0	1049	1162	1561	2398	3771	4614	4698	4186	3478	2499
72.5	553	615	1049	1536	2369	3065	3346	3676	2736	1634
75.0	397	425	813	1191	1591	1925	2042	2313	1440	777
77.5	307	327	473	812	1166	1119	1143	1230	804	476
80.0	232	251	338	435	575	594	602	601	424	339
82.5	182	198	263	327	300	240	223	189	182	245
85.0	145	154	206	197	129	111	108	112	125	149
87.5	78	83	98	82	77	83	85	91	99	113
90.0	31	37	52	61	71	78	80	86	92	100
92.5	35	39	53	63	72	80	82	87	94	101
95.0	40	41	54	64	73	80	83	87	95	99
97.5	44	43	56	66	74	80	83	86	93	85
100.0	48	46	57	67	75	81	83	84	87	64
102.5	51	48	58	69	76	81	82	81	76	55
105.0	54	51	59	70	76	80	81	75	66	50
107.5	55	53	59	72	77	79	78	67	57	50
110.0	57	56	60	72	77	75	73	59	50	50
112.5	59	58	61	72	74	69	66	54	47	49
115.0	61	60	61	72	70	63	61	52	45	48
117.5	61	61	61	68	65	59	57	50	44	48
120.0	62	62	60	64	61	56	55	49	44	47
122.5	62	61	58	60	58	55	53	48	44	46
125.0	61	60	56	56	56	54	52	48	45	46
127.5	59	58	55	55	55	53	52	49	46	46
130.0	57	57	55	54	55	54	53	50	46	48

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CANDELA TABULATION - (Cont.)

132.5	56	56	54	54	55	54	52	48	47	49
135.0	56	56	55	54	52	49	48	45	47	50
137.5	56	56	53	49	45	42	41	40	44	49
140.0	50	50	46	41	35	33	32	34	38	43
142.5	41	41	37	32	26	24	24	26	30	36
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	841	841	841	841	841	841	841	841	841	841
2.5	859	851	847	828	822	820	816	815	818	819
5.0	880	852	839	830	870	888	883	878	877	867
7.5	889	874	848	869	890	901	887	844	798	787
10.0	927	901	864	904	891	867	813	811	781	780
12.5	1007	975	926	968	909	835	800	778	761	760
15.0	1063	1023	972	1020	904	852	791	783	756	723
17.5	1128	1094	1064	1071	952	865	827	737	659	618
20.0	1187	1158	1141	1087	980	856	754	643	576	521
22.5	1284	1238	1234	1131	973	846	669	566	471	432
25.0	1319	1311	1282	1160	960	769	587	469	414	384
27.5	1396	1358	1347	1199	925	678	503	425	369	348
30.0	1431	1388	1389	1244	864	598	459	382	347	333
32.5	1442	1392	1386	1227	783	535	421	358	330	346
35.0	1443	1386	1402	1167	686	492	393	342	342	359
37.5	1459	1395	1412	1106	600	454	371	346	346	388
40.0	1484	1427	1408	1033	545	421	363	340	362	440
42.5	1475	1419	1416	952	511	396	362	336	388	550
45.0	1536	1419	1445	886	473	397	359	328	416	562
47.5	1564	1476	1412	836	434	410	348	318	429	356
50.0	1635	1537	1412	825	416	406	336	304	367	249
52.5	1749	1572	1448	814	416	393	319	291	294	210
55.0	1875	1660	1474	833	428	361	294	269	238	190
57.5	1917	1642	1452	783	401	314	256	242	207	178
60.0	1991	1711	1458	774	336	252	216	208	185	166
62.5	2090	1722	1440	757	249	199	183	181	167	152
65.0	2054	1688	1346	644	191	172	166	164	151	139
67.5	1898	1527	1174	430	168	159	155	151	134	127
70.0	1534	1141	807	266	157	150	145	134	123	141
72.5	893	657	468	173	146	142	133	125	144	175
75.0	435	390	293	150	137	130	124	130	128	120
77.5	291	266	168	142	128	119	118	112	108	109

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CANDELA TABULATION - (Cont.)

80.0	228	199	132	135	117	114	117	107	102	100
82.5	184	154	106	126	113	111	111	106	101	98
85.0	151	102	100	117	110	103	111	106	102	97
87.5	124	50	109	113	107	102	111	107	102	97
90.0	85	45	105	113	108	102	112	108	104	97
92.5	57	80	98	115	111	104	115	111	106	100
95.0	56	99	93	113	111	100	113	111	108	102
97.5	74	98	90	106	105	91	107	107	106	100
100.0	78	92	88	95	99	87	103	104	104	97
102.5	75	85	83	86	93	86	99	101	102	92
105.0	70	78	77	78	87	85	95	98	100	87
107.5	65	71	72	72	80	82	93	97	98	81
110.0	61	66	67	68	75	80	91	95	95	75
112.5	57	62	63	65	70	78	89	94	92	69
115.0	55	59	60	63	67	76	86	93	89	65
117.5	52	56	58	62	65	74	84	90	85	61
120.0	51	54	56	61	63	73	82	86	79	60
122.5	50	52	54	59	63	72	79	82	73	59
125.0	48	50	53	58	63	71	77	78	67	58
127.5	48	50	52	58	63	70	75	73	61	57
130.0	49	51	53	58	62	70	72	69	58	57
132.5	50	52	54	59	61	67	69	64	55	56
135.0	52	53	55	59	60	61	63	60	54	56
137.5	53	54	56	57	56	53	53	52	54	56
140.0	49	50	51	51	48	44	40	41	47	52
142.5	41	43	43	41	38	33	29	31	37	43
145.0	32	33	33	32	28	24	20	22	28	33
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	841	841
2.5	823	825
5.0	865	874
7.5	777	777
10.0	773	789
12.5	754	749
15.0	698	716
17.5	602	598
20.0	494	492
22.5	413	408
25.0	366	364

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CANDELA TABULATION - (Cont.)

27.5	346	346
30.0	336	336
32.5	356	358
35.0	380	380
37.5	418	421
40.0	481	491
42.5	595	570
45.0	351	335
47.5	255	253
50.0	218	217
52.5	197	197
55.0	182	184
57.5	169	170
60.0	154	155
62.5	141	142
65.0	129	132
67.5	121	123
70.0	153	154
72.5	173	147
75.0	107	99
77.5	96	81
80.0	83	61
82.5	76	49
85.0	69	42
87.5	67	43
90.0	63	42
92.5	62	50
95.0	64	60
97.5	63	67
100.0	62	72
102.5	62	74
105.0	63	75
107.5	65	74
110.0	67	72
112.5	67	70
115.0	67	68
117.5	66	67
120.0	65	65
122.5	63	64
125.0	63	63
127.5	61	61
130.0	59	60
132.5	58	58
135.0	57	57
137.5	56	56
140.0	54	55
142.5	46	46
145.0	35	36
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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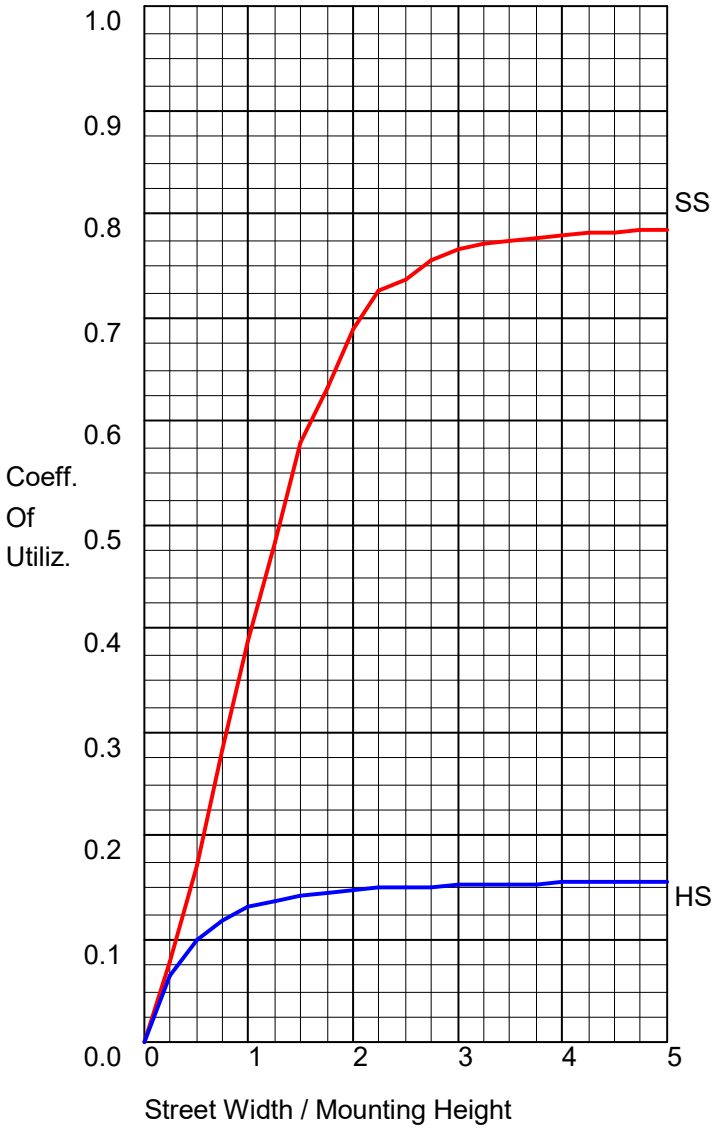
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	6202.9	79.4
Downward House Side	1259.5	16.1
Downward Total	7462.4	95.5
Upward Street Side	155.8	2.0
Upward House Side	198.7	2.5
Upward Total	354.5	4.5
Total Flux	7816.9	100.0

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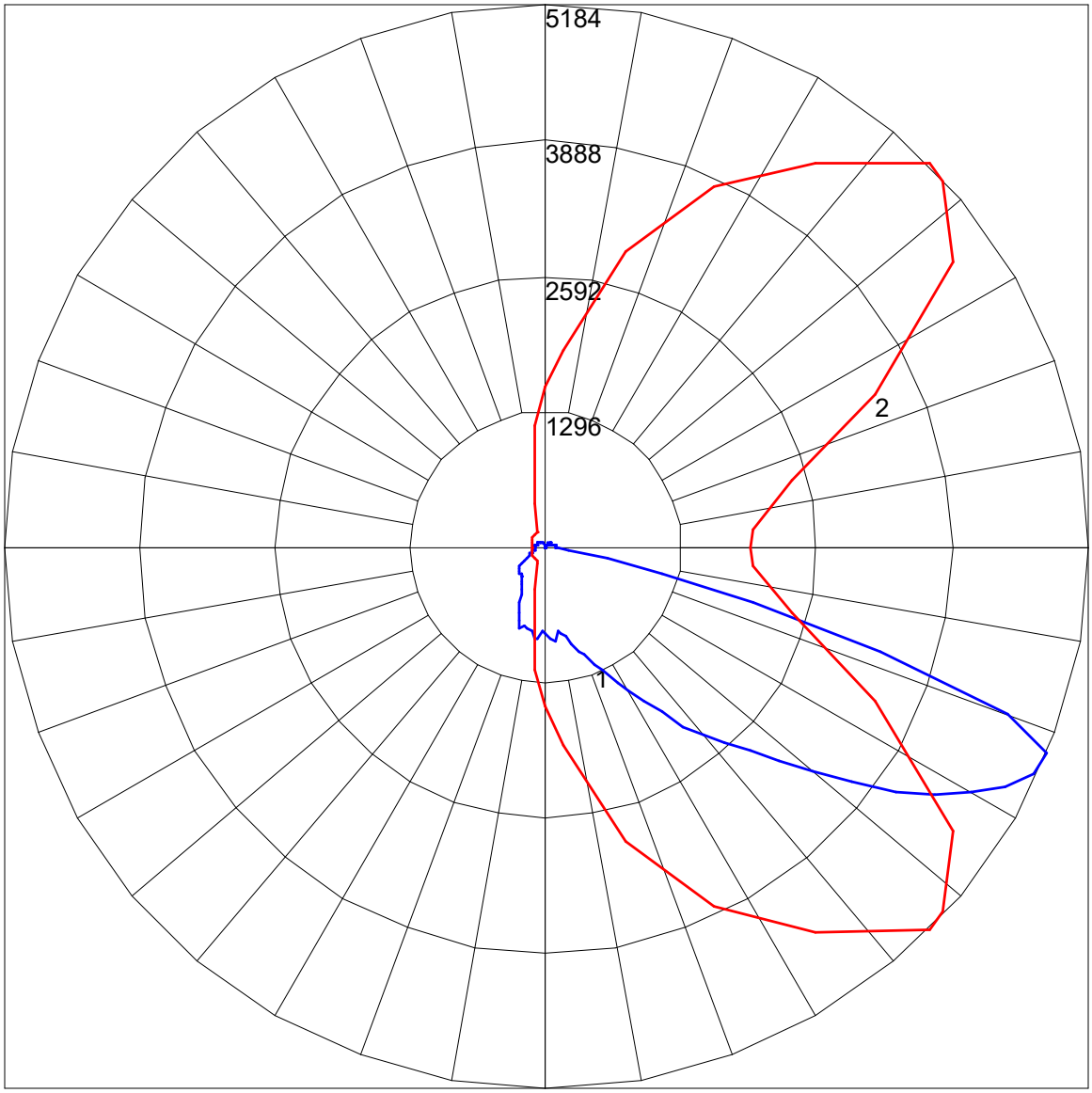
POLAR GRAPH



Maximum Candela = 5184 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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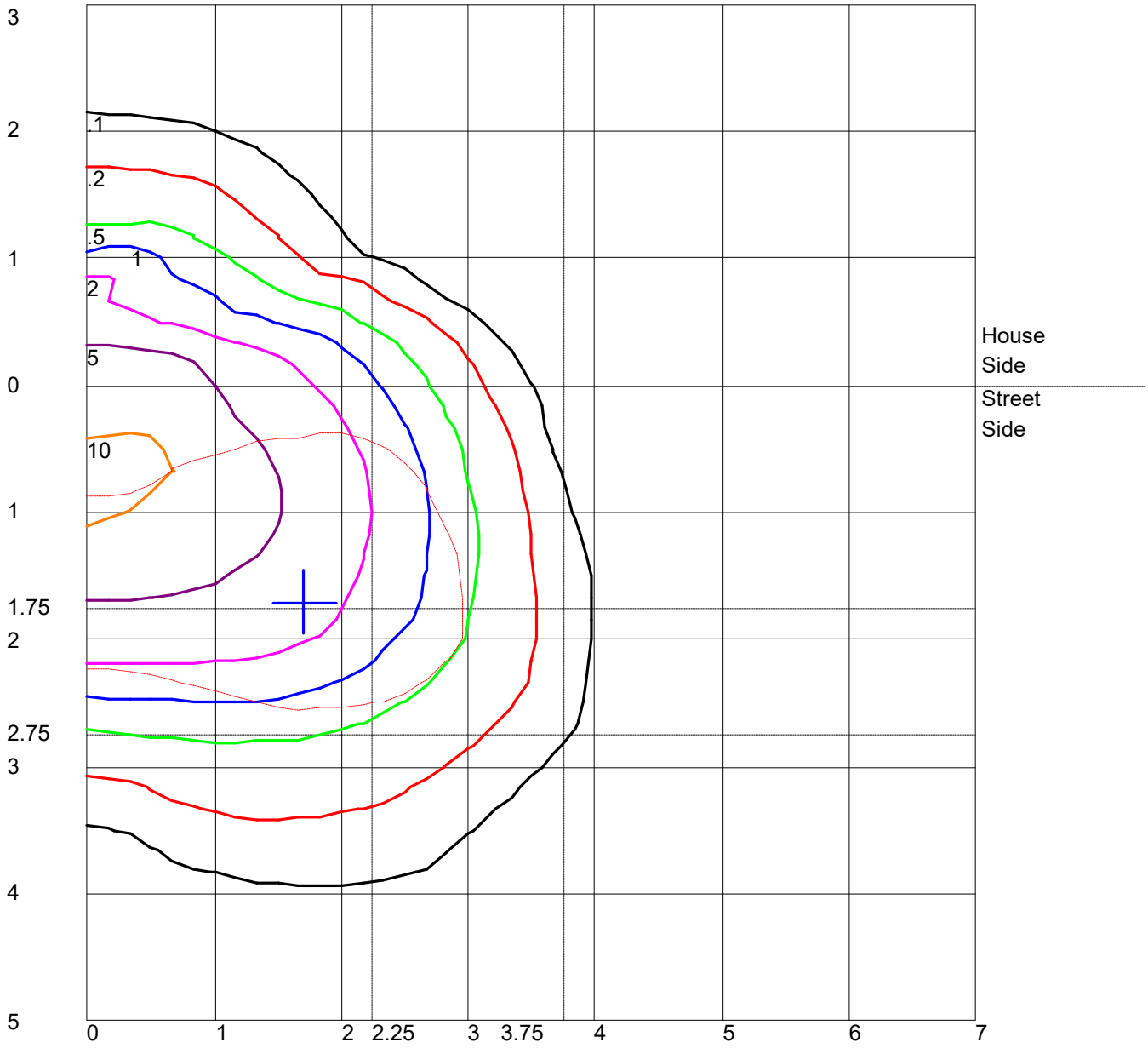
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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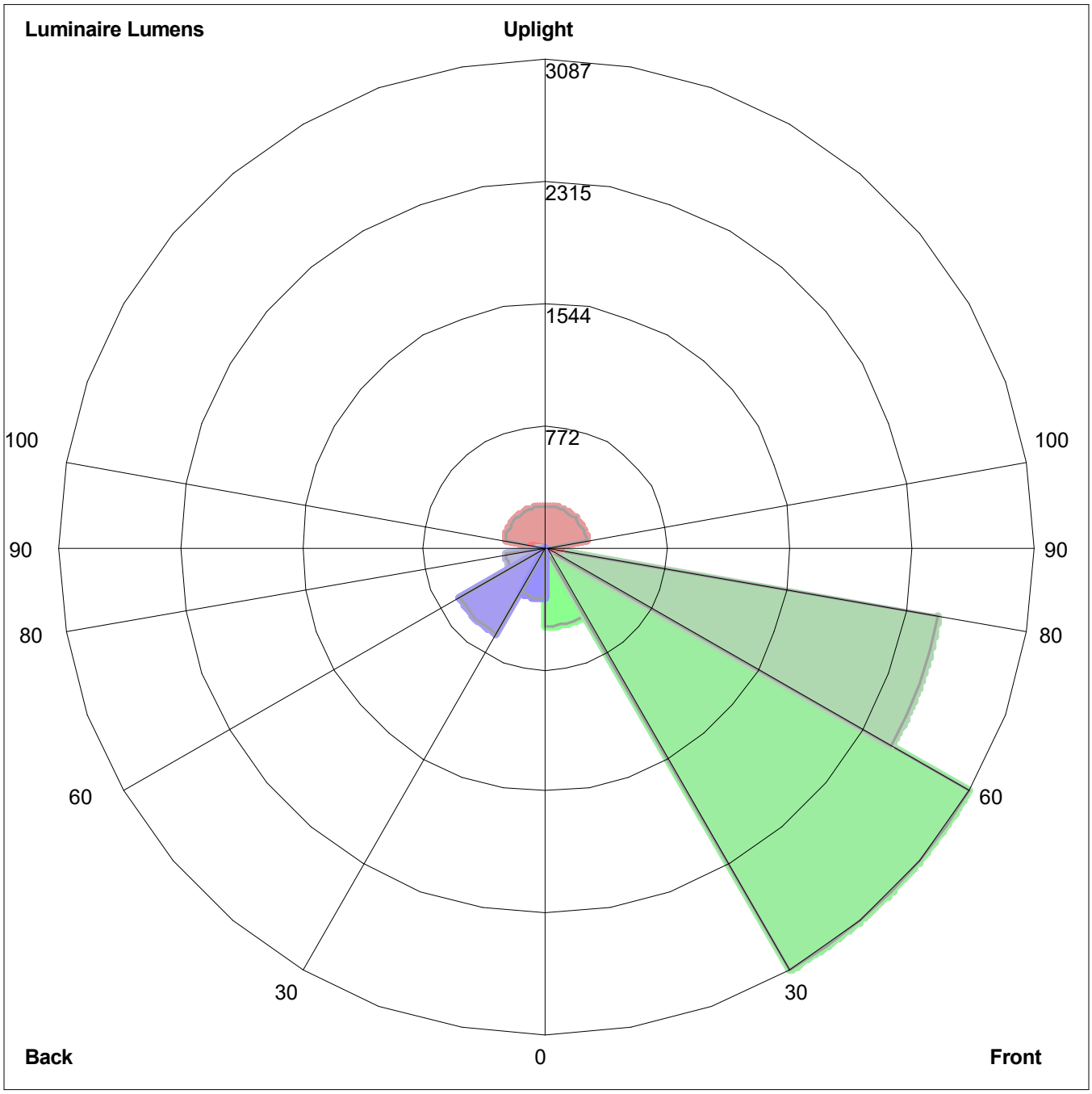
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=496.4, Medium=3087.1, High=2521.6, Very High=97.7
Back: Low=321.8, Medium=626.2, High=255.2, Very High=56.2
Uplight: Low=94.0, High=260.5

BUG Rating : B1-U3-G2