IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-2-40-70CRI-IH.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12637
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/26/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-10L-SIL-2-40-70CRI-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7370
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	5740
Maximum Candela Angle	72.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	5740
Maximum Candela Angle (<90 Degrees Vertical)	72.5H 62.5V
Maximum Candela At 90 Degrees Vertical	126 (1.7% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	487 (6.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	566.8	N.A.	7.7
FM - Front-Medium (30-60)	3820.3	N.A.	51.8
FH - Front-High (60-80)	1442.2	N.A.	19.6
FVH - Front-Very High (80-90)	66.6	N.A.	0.9
BL - Back-Low (0-30)	269.4	N.A.	3.7
BM - Back-Medium (30-60)	569.1	N.A.	7.7
BH - Back-High (60-80)	213.1	N.A.	2.9
BVH - Back-Very High (80-90)	58.0	N.A.	0.8
UL - Uplight-Low (90-100)	104.2	N.A.	1.4
UH - Uplight-High (100-180)	260.5	N.A.	3.5
Total	7370.2	N.A.	100.0
BUG Rating	B1-U3-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	72.5	75.0
0.0	780	780	780	780	780	780	780	780	780	780
2.5	770	763	766	772	771	768	759	758	762	762
5.0	831	826	842	829	831	829	837	819	774	765
7.5	772	774	777	800	824	851	853	839	834	815
10.0	854	854	830	872	855	838	849	857	858	871
12.5	913	917	887	883	913	893	869	917	958	967
15.0	967	1017	997	998	986	938	991	965	1029	1024
17.5	1141	1096	1123	1068	1099	1103	1056	1076	1111	1135
20.0	1235	1243	1265	1214	1199	1188	1221	1212	1208	1223
22.5	1472	1483	1478	1381	1416	1328	1362	1364	1341	1338
25.0	1664	1676	1672	1632	1563	1561	1535	1533	1512	1520
27.5	2126	2105	2048	1873	1858	1767	1769	1754	1741	1719
30.0	2499	2540	2436	2296	2167	2135	2057	1998	1985	1990
32.5	2823	2824	2816	2717	2630	2467	2431	2328	2310	2315
35.0	2717	2721	2755	2868	3006	2952	2886	2743	2625	2553
37.5	2757	2710	2699	2763	3033	3248	3346	3167	2933	2835
40.0	2960	2879	2828	2842	3021	3361	3504	3715	3232	3151
42.5	3162	3060	2983	2996	3145	3474	3580	4022	3654	3517
45.0	3226	3138	3061	3101	3286	3623	3837	4090	4074	4069
47.5	3146	3077	3004	3106	3366	3813	4122	4082	4429	4439
50.0	2948	2889	2831	2985	3344	3984	4363	4242	4775	4769
52.5	2620	2569	2522	2757	3201	4038	4554	4597	5017	5058
55.0	2209	2150	2116	2380	2920	3942	4719	5021	5299	5330
57.5	1719	1710	1676	1894	2436	3610	4755	5341	5409	5480
60.0	1230	1229	1231	1391	1802	2996	4500	5361	5458	5566
62.5	730	739	774	906	1194	2111	3979	5233	5740	5638
65.0	458	467	506	582	732	1206	3183	4555	5497	5482
67.5	312	312	326	408	508	648	2042	3566	4603	4694
70.0	270	271	277	304	378	440	1117	2596	3507	3672
72.5	213	211	225	251	308	339	579	1661	2291	2428
75.0	150	151	164	188	247	286	370	933	1437	1514
77.5	97	106	122	141	183	235	283	572	874	858
80.0	57	69	89	103	139	184	219	327	487	486
82.5	43	55	73	81	98	128	166	202	282	305
85.0	33	45	65	74	85	99	115	141	176	193
87.5	33	44	63	72	82	93	103	113	124	130
90.0	35	43	63	72	80	91	98	105	111	113
92.5	41	46	64	74	82	92	97	106	112	114
95.0	48	48	67	76	85	95	97	108	113	115
97.5	54	50	68	78	86	95	95	106	108	106
100.0	59	52	69	79	87	94	93	101	95	83
102.5	61	55	69	80	87	93	90	90	75	68
105.0	63	58	68	80	87	91	85	79	62	59
107.5	64	60	67	81	87	88	77	69	54	54
110.0	65	62	66	80	85	83	69	59	50	52
112.5	65	63	65	80	83	76	62	50	47	49
115.0	65	65	65	78	78	69	56	46	45	47
117.5	66	65	64	75	73	63	52	42	44	45
120.0	66	65	63	70	68	59	49	41	43	43
122.5	66	65	61	65	63	56	47	40	41	42
125.0	64	63	59	61	60	53	46	40	40	41
127.5	62	61	57	57	57	52	46	41	41	40
130.0	59	59	55	54	55	51	47	42	41	41

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CANDELA TABULATION - (Cont.)

132.5	57	56	54	52	54	52	47	42	42	42
135.0	56	56	54	52	53	49	43	42	43	43
137.5	56	56	54	51	48	43	39	39	41	42
140.0	53	53	50	46	40	35	32	33	35	36
142.5	46	46	43	38	30	26	25	26	28	29
145.0	37	37	34	28	21	19	17	19	21	22
147.5	28	27	24	19	15	11	11	13	14	15
150.0	19	18	16	13	8	3	3	6	8	8
152.5	13	13	10	5	2	1	1	2	2	2
155.0	4	4	2	2	1	0	0	0	1	1
157.5	1	1	1	1	0	0	0	0	0	0
160.0	0	0	0	1	0	0	0	0	0	0
162.5	0	0	0	1	0	0	0	0	0	0
165.0	0	0	1	1	0	0	0	0	0	0
167.5	0	0	1	1	0	0	0	0	0	0
170.0	0	0	1	1	0	0	0	0	0	0
172.5	0	0	1	1	0	0	0	0	0	0
175.0	0	0	1	1	1	0	0	0	0	0
177.5	0	0	1	1	1	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	780	780	780	780	780	780	780	780	780	780
2.5	769	770	782	802	808	813	814	808	809	803
5.0	759	780	816	837	822	821	817	810	780	748
7.5	780	792	827	828	819	767	743	743	732	718
10.0	818	828	851	828	792	776	741	701	668	639
12.5	881	896	940	915	799	742	668	612	573	561
15.0	953	971	984	920	830	704	610	553	493	468
17.5	1069	1062	1092	974	826	648	555	469	419	396
20.0	1188	1154	1164	1023	821	610	483	408	362	337
22.5	1363	1315	1331	1102	771	556	429	349	316	310
25.0	1524	1472	1428	1115	770	502	370	313	290	275
27.5	1764	1650	1623	1178	702	446	326	288	260	248
30.0	2012	1875	1780	1222	650	384	305	261	236	225
32.5	2197	2025	1908	1220	581	349	278	238	224	217
35.0	2405	2187	2017	1165	502	327	254	226	215	204
37.5	2683	2404	2107	1066	426	297	230	218	203	189
40.0	2932	2658	2177	936	381	259	219	209	189	172
42.5	3183	2848	2272	797	334	227	214	197	173	156
45.0	3557	3066	2327	658	289	221	206	181	159	143
47.5	3808	3311	2376	538	252	217	193	166	149	135
50.0	4109	3601	2338	440	225	208	180	156	143	129
52.5	4507	3779	2328	375	214	197	168	148	138	124
55.0	4814	3942	2198	336	214	186	158	143	134	120
57.5	4923	3906	1960	283	221	176	152	139	130	116
60.0	5007	3746	1579	237	212	167	145	134	123	107
62.5	4873	3455	1198	210	193	158	139	128	114	104
65.0	4304	2823	800	197	173	150	133	119	124	132
67.5	3447	2062	534	188	162	142	126	130	147	163
70.0	2593	1469	373	177	154	135	132	145	158	140
72.5	1691	973	272	165	143	129	136	142	115	104
75.0	1066	637	214	156	136	128	139	119	104	90
77.5	477	308	168	147	130	132	124	105	94	86

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CANDELA TABULATION - (Cont.)

80.0	286	223	140	138	128	125	112	104	97	89
82.5	205	173	118	129	129	113	113	106	100	91
85.0	165	111	112	130	117	112	115	109	102	94
87.5	132	48	119	124	119	113	118	111	105	96
90.0	95	38	115	126	120	114	120	114	108	99
92.5	66	81	104	129	124	117	123	118	112	103
95.0	62	107	98	128	122	111	120	116	112	103
97.5	77	108	96	117	116	103	115	113	110	100
100.0	84	103	95	102	111	100	112	111	109	98
102.5	83	95	91	89	102	97	108	109	107	94
105.0	78	86	84	79	92	93	104	107	105	89
107.5	72	77	76	72	82	87	100	104	103	84
110.0	65	68	69	65	72	80	95	101	100	78
112.5	59	62	62	60	65	74	89	97	96	73
115.0	54	56	56	56	59	69	83	92	91	69
117.5	50	52	52	53	54	66	78	87	85	66
120.0	47	48	49	50	52	63	74	82	78	64
122.5	44	45	46	48	51	60	70	77	72	62
125.0	42	43	44	46	50	59	67	72	65	59
127.5	41	42	43	46	50	59	65	67	59	58
130.0	42	42	43	47	50	58	63	63	55	56
132.5	43	43	45	48	50	54	60	59	52	55
135.0	44	45	46	49	50	49	52	53	52	54
137.5	45	46	47	48	45	43	42	43	46	52
140.0	40	42	42	41	38	35	31	33	37	43
142.5	33	35	35	33	29	26	22	23	28	33
145.0	25	26	26	24	21	17	15	16	20	24
147.5	16	16	17	15	13	10	8	11	13	16
150.0	9	9	9	9	7	4	4	5	9	11
152.5	3	3	3	3	3	3	2	3	3	5
155.0	1	2	2	2	2	2	2	2	2	2
157.5	0	1	1	1	2	2	2	2	2	2
160.0	0	0	1	1	2	2	2	2	2	2
162.5	0	0	1	1	2	2	2	2	2	1
165.0	0	0	0	1	1	2	2	2	2	1
167.5	0	0	0	1	1	1	2	2	2	1
170.0	0	0	0	0	1	1	1	1	1	1
172.5	0	0	0	0	1	1	1	1	1	1
175.0	0	0	0	0	0	1	1	1	1	0
177.5	0	0	0	0	0	0	1	1	1	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**	
	175.0	**180.0**
0.0	780	780
2.5	807	813
5.0	724	723
7.5	722	720
10.0	612	609
12.5	537	531
15.0	449	447
17.5	379	379
20.0	327	327
22.5	302	301
25.0	268	267

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CANDELA TABULATION - (Cont.)

27.5	244	243
30.0	228	228
32.5	215	216
35.0	203	202
37.5	188	188
40.0	171	172
42.5	155	157
45.0	143	145
47.5	134	136
50.0	126	128
52.5	119	119
55.0	111	112
57.5	100	101
60.0	87	85
62.5	88	90
65.0	116	115
67.5	143	138
70.0	92	82
72.5	73	61
75.0	54	39
77.5	52	30
80.0	54	28
82.5	56	30
85.0	58	34
87.5	61	38
90.0	63	48
92.5	67	60
95.0	68	69
97.5	68	76
100.0	69	81
102.5	71	84
105.0	74	85
107.5	76	84
110.0	77	82
112.5	77	80
115.0	76	78
117.5	74	74
120.0	71	72
122.5	69	69
125.0	66	67
127.5	63	63
130.0	60	60
132.5	57	58
135.0	56	56
137.5	55	54
140.0	46	46
142.5	36	36
145.0	26	26
147.5	17	17
150.0	12	12
152.5	7	7
155.0	2	2
157.5	1	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	0	0

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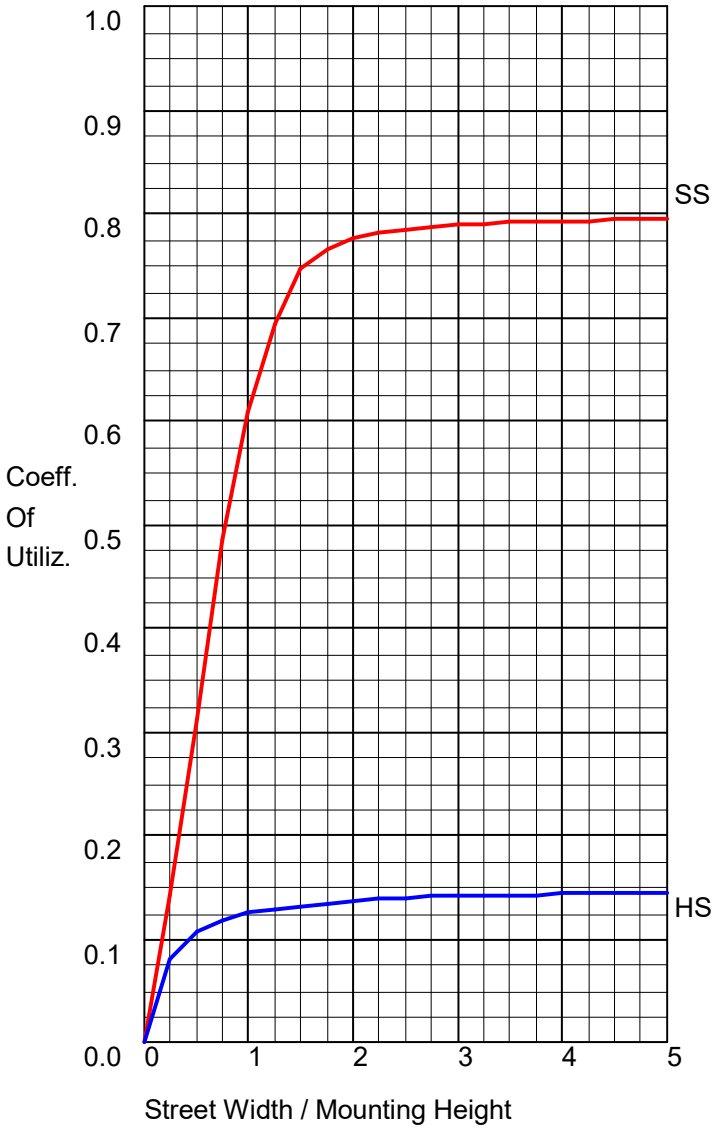
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	5895.8	80.0
Downward House Side	1109.5	15.1
Downward Total	7005.3	95.1
Upward Street Side	167.6	2.3
Upward House Side	197.0	2.7
Upward Total	364.6	4.9
Total Flux	7369.9	100.0

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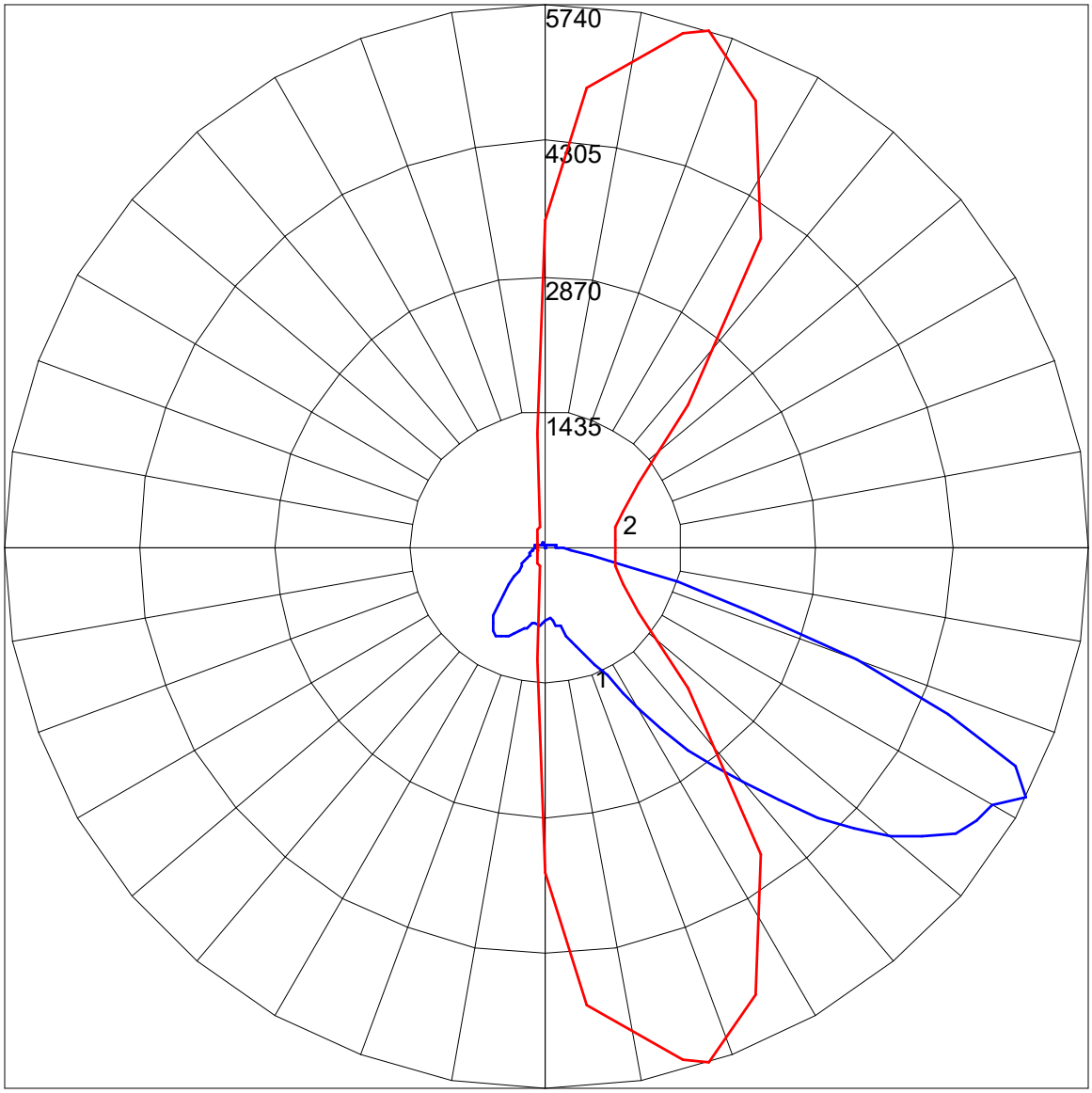
POLAR GRAPH



Maximum Candela = 5740 Located At Horizontal Angle = 72.5, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (72.5 - 252.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

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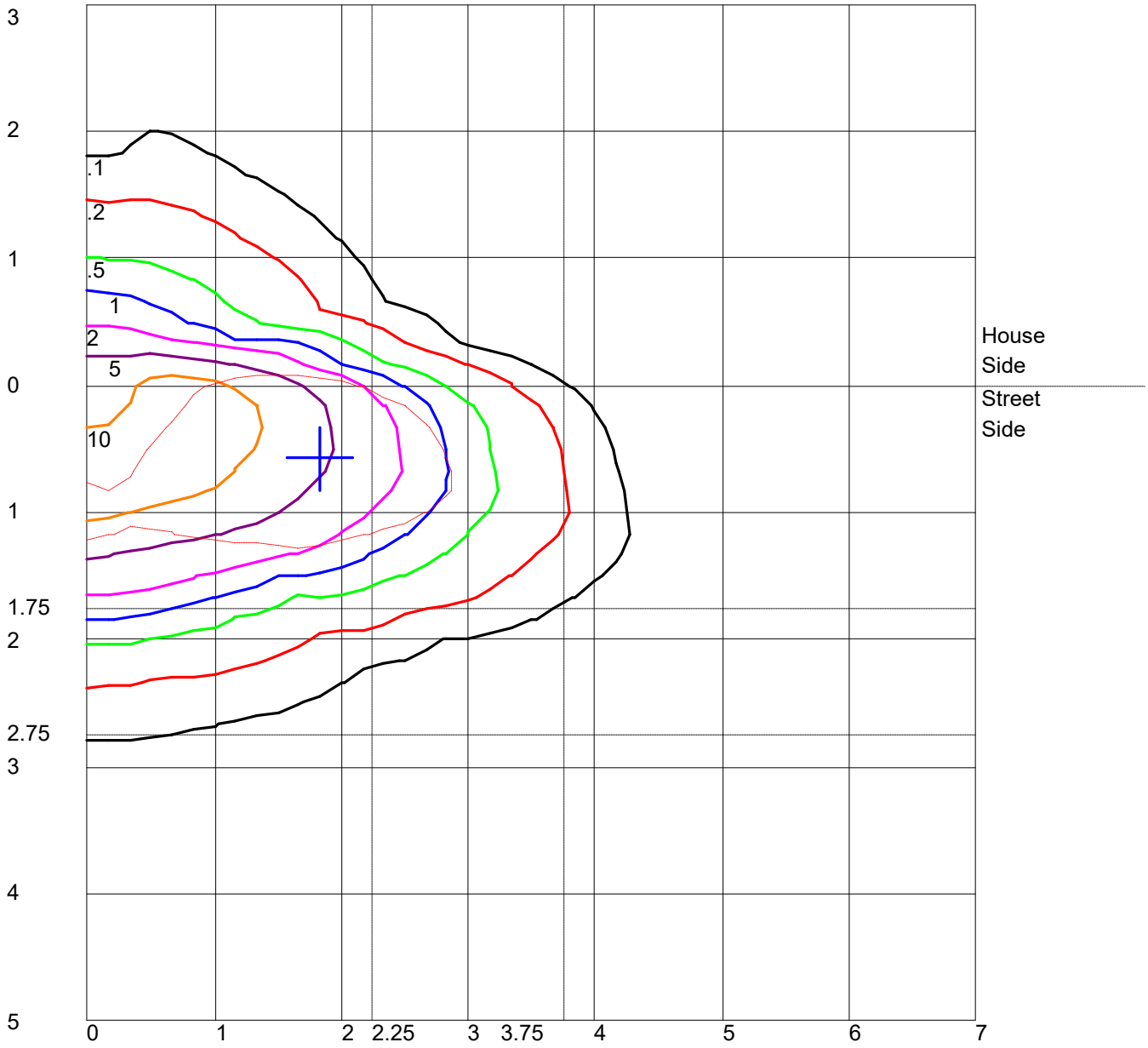
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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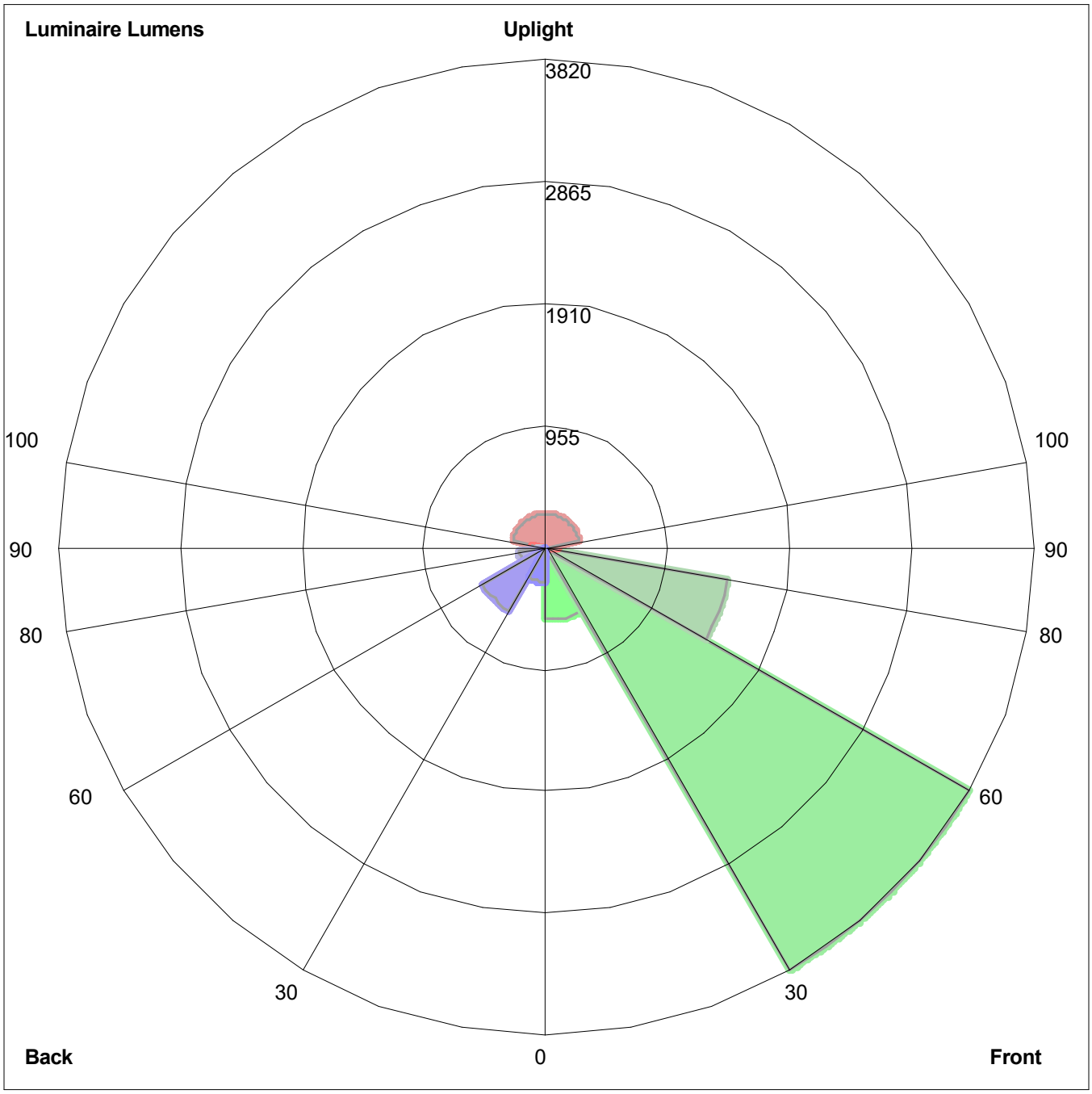
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=566.8, Medium=3820.3, High=1442.2, Very High=66.6
Back: Low=269.4, Medium=569.1, High=213.1, Very High=58.0
Uplight: Low=104.2, High=260.5

BUG Rating : B1-U3-G1

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