



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-05L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11770
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/27/20
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMEN CATEGORY] LXM4-PT-2-LED-05L-40
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCE TYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5046
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	39.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4006
Maximum Candela Angle	77.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	4006
Maximum Candela Angle (<90 Degrees Vertical)	77.5H 67.5V
Maximum Candela At 90 Degrees Vertical	6 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	353 (7.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	265.5	N.A.	5.3
FM - Front-Medium (30-60)	1868.4	N.A.	37.0
FH - Front-High (60-80)	1132.6	N.A.	22.4
FVH - Front-Very High (80-90)	24.9	N.A.	0.5
BL - Back-Low (0-30)	221.8	N.A.	4.4
BM - Back-Medium (30-60)	1102.0	N.A.	21.8
BH - Back-High (60-80)	397.1	N.A.	7.9
BVH - Back-Very High (80-90)	30.1	N.A.	0.6
UL - Uplight-Low (90-100)	1.5	N.A.	0.0
UH - Uplight-High (100-180)	2.5	N.A.	0.1
Total	5046.4	N.A.	100.0
BUG Rating	B2-U1-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>77.5</u>
0.0	421	421	421	421	421	421	421	421	421	421
2.5	422	424	424	426	427	425	425	423	418	415
5.0	423	416	431	435	428	418	413	400	395	394
7.5	421	427	435	425	423	417	426	426	422	420
10.0	433	441	454	428	442	448	453	452	440	435
12.5	485	496	486	462	478	473	485	476	475	473
15.0	495	516	513	521	540	513	522	519	531	520
17.5	514	533	522	543	564	580	564	574	579	577
20.0	577	588	581	579	599	615	639	633	636	642
22.5	603	602	613	637	651	666	711	698	710	712
25.0	644	626	644	673	699	722	775	797	778	783
27.5	683	713	721	713	736	795	834	883	883	892
30.0	754	747	742	773	796	862	910	975	1006	985
32.5	867	889	829	818	877	913	997	1088	1119	1115
35.0	990	976	967	939	941	1018	1087	1176	1241	1258
37.5	1184	1181	1117	1069	1084	1114	1181	1278	1356	1366
40.0	1325	1336	1296	1283	1208	1246	1287	1369	1480	1494
42.5	1482	1494	1468	1461	1423	1378	1410	1461	1572	1588
45.0	1620	1638	1620	1588	1583	1556	1549	1556	1693	1700
47.5	1706	1716	1717	1703	1735	1762	1735	1681	1816	1835
50.0	1713	1729	1754	1765	1852	1974	1987	1855	1955	1990
52.5	1638	1655	1708	1742	1894	2161	2267	2085	2136	2194
55.0	1454	1474	1545	1612	1835	2234	2568	2398	2348	2428
57.5	1182	1186	1256	1344	1632	2162	2841	2760	2616	2719
60.0	881	880	937	1013	1278	1906	3016	3143	2958	3086
62.5	619	615	630	679	878	1461	3005	3452	3350	3507
65.0	434	432	433	448	550	955	2663	3547	3711	3899
67.5	295	302	308	315	372	555	1993	3316	3867	4006
70.0	206	214	221	231	273	363	1199	2727	3500	3555
72.5	116	124	135	162	201	254	680	1843	2506	2362
75.0	65	70	70	90	131	190	378	1088	1220	1044
77.5	49	55	49	56	73	121	223	634	550	448
80.0	45	51	41	40	50	81	115	353	285	225
82.5	45	46	34	28	32	57	61	177	147	124
85.0	37	36	25	19	19	34	37	45	64	56
87.5	19	19	15	10	9	14	13	13	14	14
90.0	5	5	5	3	1	1	1	1	1	1
92.5	2	2	2	1	0	0	0	0	1	1
95.0	2	2	1	1	0	0	0	0	1	1
97.5	1	1	1	1	0	0	0	0	0	0
100.0	1	1	1	1	0	0	0	0	0	0
102.5	1	1	1	1	0	0	0	0	0	0
105.0	1	1	1	1	0	0	0	0	0	0
107.5	1	1	1	1	0	0	0	0	0	0
110.0	1	1	1	1	0	0	0	0	0	0
112.5	1	1	1	1	0	0	0	0	0	0
115.0	2	2	1	1	0	0	0	0	0	0
117.5	2	2	1	1	0	0	0	0	0	0
120.0	2	2	2	1	1	0	0	0	0	0
122.5	2	2	2	1	1	0	0	0	0	0
125.0	2	2	2	2	1	1	0	0	0	0
127.5	2	2	2	2	1	1	0	0	0	0
130.0	2	2	2	2	1	1	0	0	1	1

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CANDELA TABULATION - (Cont.)

132.5	2	3	2	2	1	1	0	0	0	1
135.0	2	2	2	2	1	1	0	0	0	0
137.5	2	1	1	1	0	0	0	0	0	0
140.0	1	0	0	0	0	0	0	0	0	0
142.5	1	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	421	421	421	421	421	421	421	421	421	421
2.5	416	417	418	419	423	418	414	413	410	417
5.0	407	397	391	382	391	399	392	385	385	380
7.5	403	401	403	408	398	382	360	350	359	354
10.0	421	421	411	418	381	376	359	344	330	335
12.5	454	450	444	431	400	373	349	356	361	367
15.0	491	497	475	443	400	375	386	387	389	390
17.5	552	527	514	473	409	402	424	423	421	430
20.0	611	603	573	512	429	450	447	461	473	494
22.5	705	662	640	565	500	495	492	510	529	554
25.0	776	755	732	616	571	546	546	569	602	624
27.5	888	828	815	671	644	597	613	640	697	727
30.0	975	935	902	735	706	678	691	728	771	814
32.5	1087	1049	987	831	769	760	784	812	873	937
35.0	1215	1158	1102	916	840	841	881	890	951	999
37.5	1349	1306	1208	1016	914	917	955	987	1003	1077
40.0	1476	1418	1298	1085	978	982	1011	1026	1033	1077
42.5	1576	1532	1376	1121	1025	1019	1030	1036	1002	1016
45.0	1695	1655	1464	1155	1050	1027	1016	991	918	925
47.5	1847	1793	1551	1190	1061	1006	967	917	825	807
50.0	2020	1932	1641	1213	1053	958	898	828	730	701
52.5	2231	2089	1728	1228	1034	906	821	742	647	616
55.0	2479	2275	1813	1233	1005	845	746	670	579	546
57.5	2786	2467	1877	1225	967	778	675	613	504	484
60.0	3103	2655	1911	1188	908	703	612	545	437	415
62.5	3366	2733	1841	1099	822	619	540	467	357	335
65.0	3488	2596	1628	941	700	520	450	377	279	247
67.5	3234	2191	1232	721	543	403	346	289	208	189
70.0	2515	1517	804	509	399	301	265	215	167	151
72.5	1331	745	475	337	293	225	202	172	129	107
75.0	506	336	293	232	215	180	161	125	84	72
77.5	214	179	189	173	165	146	114	86	67	63

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CANDELA TABULATION - (Cont.)

80.0	125	103	116	134	133	107	78	70	74	83
82.5	73	56	60	106	100	67	62	73	113	110
85.0	36	27	33	69	43	46	52	71	98	77
87.5	11	8	11	14	15	19	17	19	28	14
90.0	1	1	1	3	5	6	5	3	1	1
92.5	0	1	1	3	4	6	5	3	0	0
95.0	0	1	1	2	4	5	4	2	0	0
97.5	0	0	1	2	3	3	3	1	0	0
100.0	0	1	1	1	2	2	2	1	0	0
102.5	0	1	1	1	2	2	1	1	0	0
105.0	0	0	1	1	1	1	1	1	0	0
107.5	0	0	1	1	1	1	1	1	0	0
110.0	0	0	1	1	1	1	1	1	0	0
112.5	0	0	1	1	1	1	1	1	0	0
115.0	0	1	1	1	1	1	1	1	0	0
117.5	0	1	1	1	1	1	1	1	1	0
120.0	0	1	1	1	1	1	1	1	1	1
122.5	0	1	1	1	1	1	1	1	1	1
125.0	1	1	1	1	1	1	1	1	1	1
127.5	1	1	1	1	1	1	1	1	1	1
130.0	1	1	1	1	1	1	1	1	1	1
132.5	1	1	1	1	1	1	1	1	1	1
135.0	1	1	1	1	1	1	1	1	1	1
137.5	0	0	1	1	1	1	1	1	1	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	421	421
2.5	415	411
5.0	383	379
7.5	362	350
10.0	336	342
12.5	361	367
15.0	399	410
17.5	439	456
20.0	508	514
22.5	562	585
25.0	657	681

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CANDELA TABULATION - (Cont.)

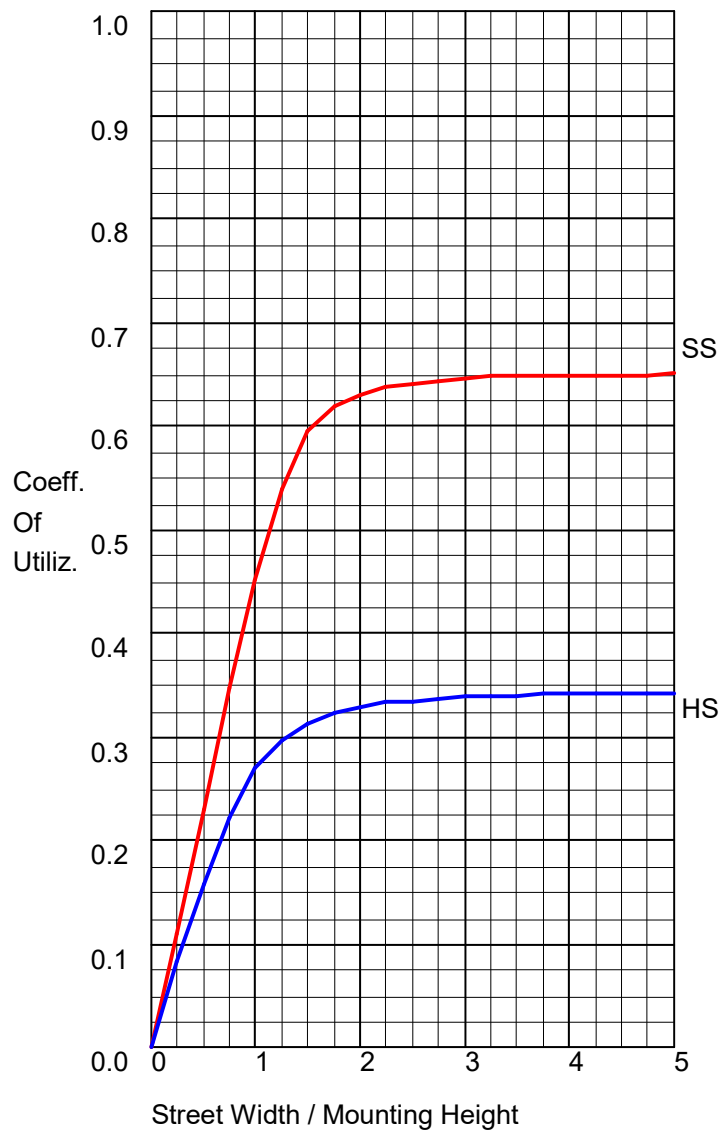
27.5	753	778
30.0	853	891
32.5	966	1003
35.0	1038	1077
37.5	1111	1150
40.0	1092	1129
42.5	1019	1055
45.0	916	950
47.5	797	834
50.0	692	713
52.5	608	631
55.0	537	557
57.5	475	491
60.0	399	412
62.5	316	325
65.0	235	240
67.5	186	192
70.0	154	157
72.5	112	115
75.0	85	95
77.5	78	89
80.0	102	114
82.5	122	130
85.0	82	85
87.5	7	12
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	0	0
110.0	0	0
112.5	0	0
115.0	0	0
117.5	0	0
120.0	0	0
122.5	0	0
125.0	0	0
127.5	0	0
130.0	0	0
132.5	0	0
135.0	0	0
137.5	0	0
140.0	0	0
142.5	0	0
145.0	0	0
147.5	0	0
150.0	0	0
152.5	0	0
155.0	0	0
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	0	0

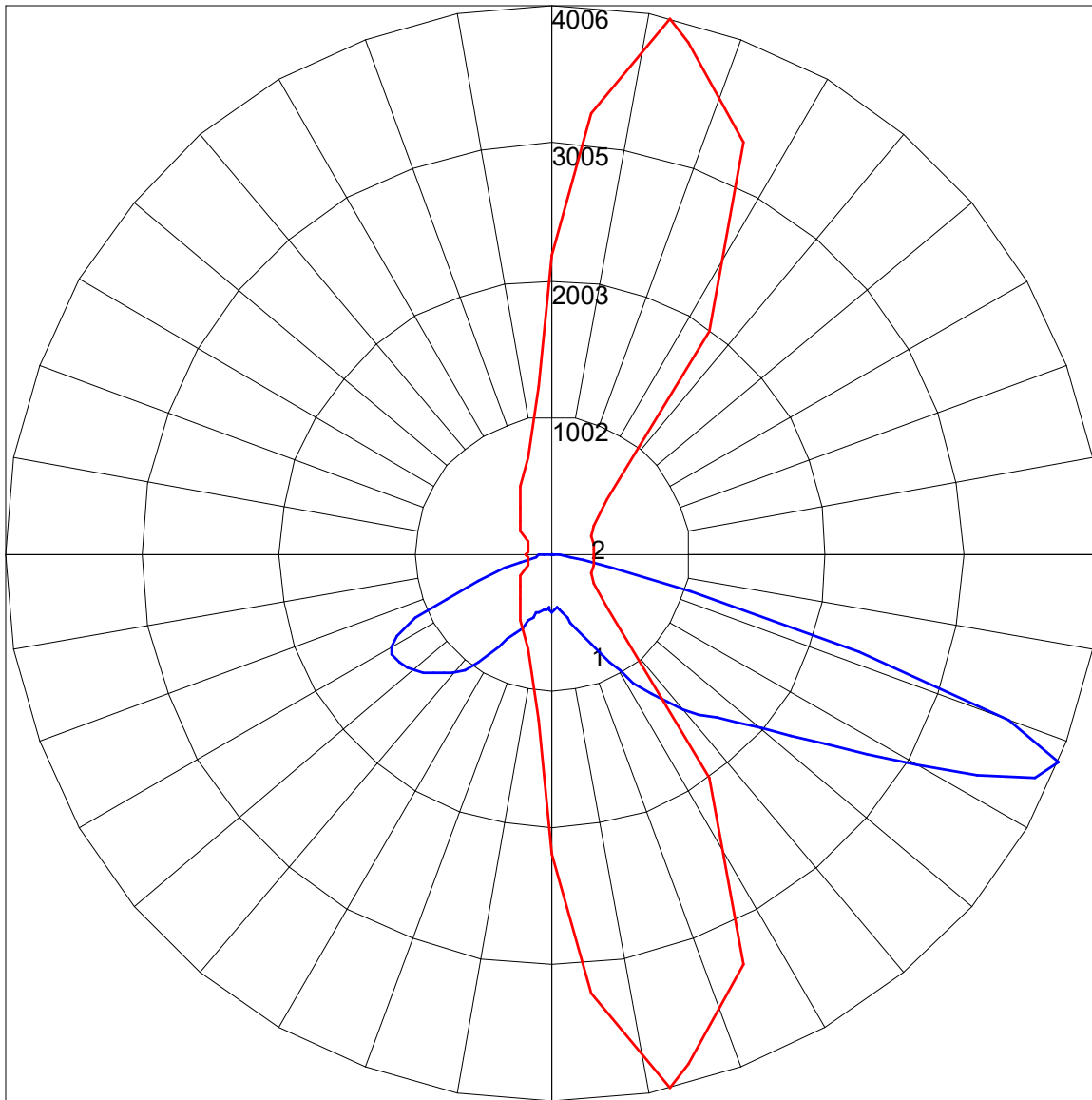
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

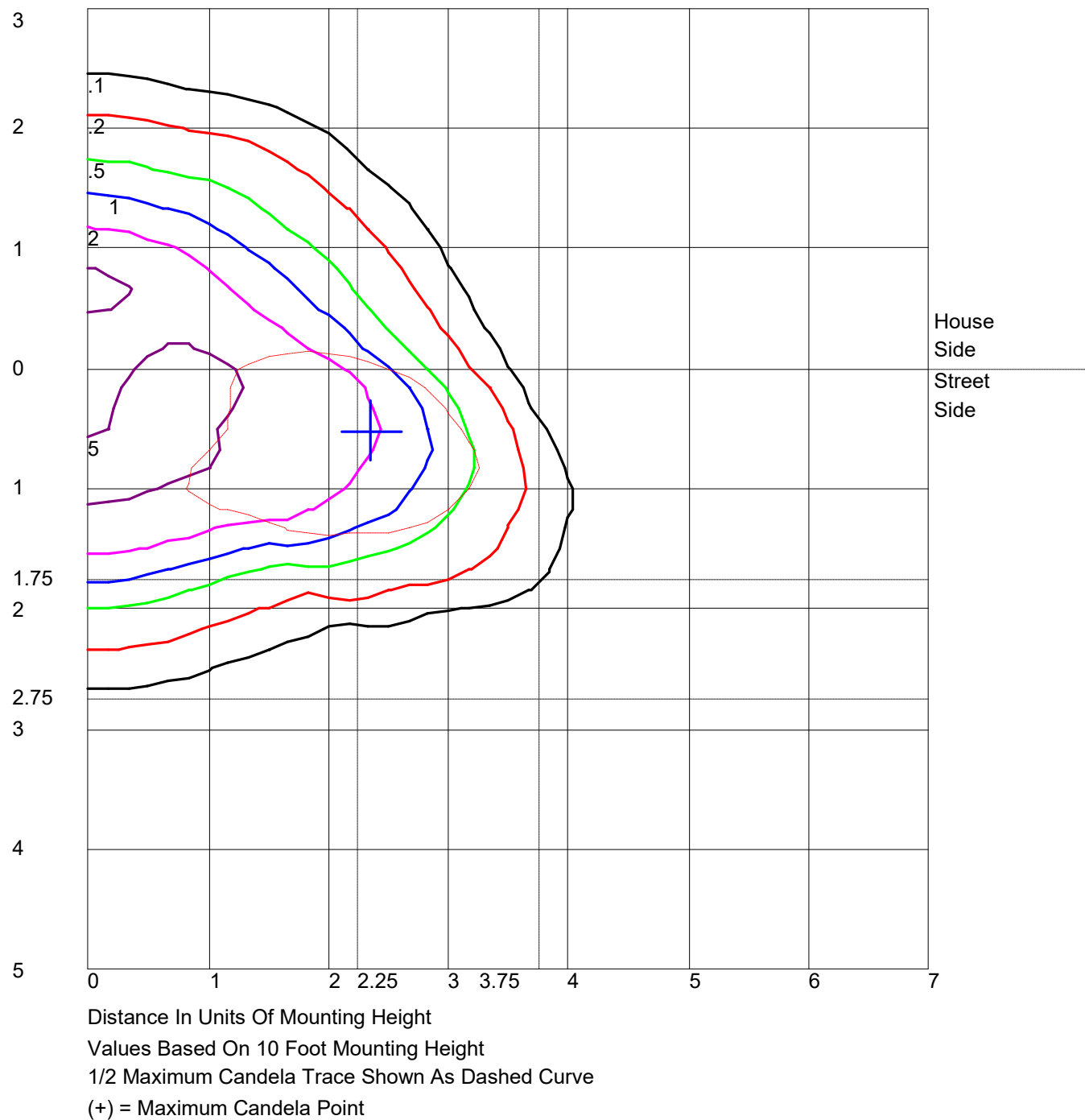
	Lumens	Percent Of Luminaire
Downward Street Side	3291.3	65.2
Downward House Side	1751.0	34.7
Downward Total	5042.3	99.9
Upward Street Side	1.5	0.0
Upward House Side	2.5	0.0
Upward Total	4.0	0.1
Total Flux	5046.3	100.0

POLAR GRAPH

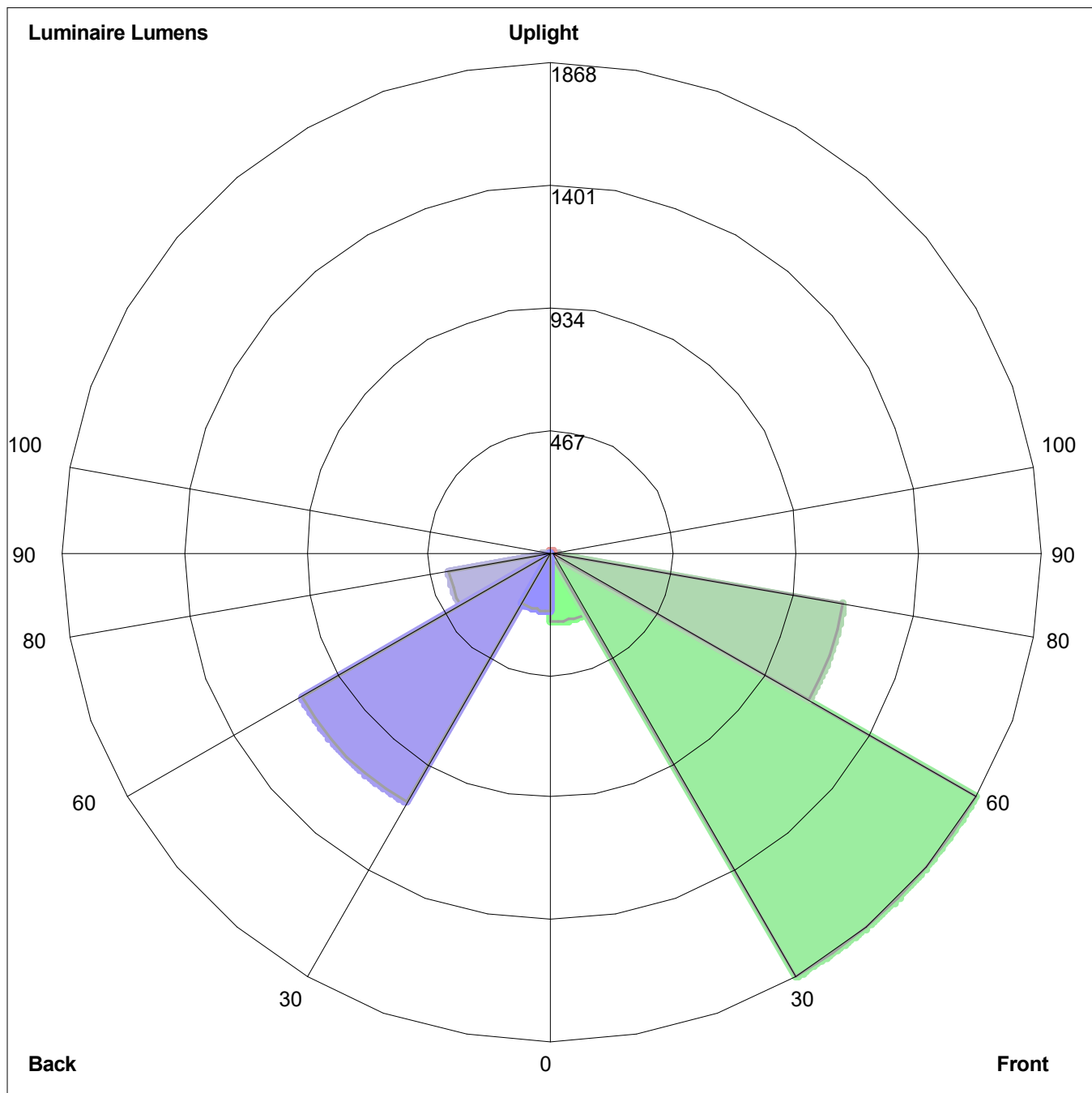


Maximum Candela = 4006 Located At Horizontal Angle = 77.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=265.5, Medium=1868.4, High=1132.6, Very High=24.9
Back: Low=221.8, Medium= 1102.0, High=397.1, Very High=30.1
Uplight: Low=1.5, High=2.5

BUG Rating : B2-U1-G1