



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-2-LED-05L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11771

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUEDATE] 06/10/2020

[TESTDATE] 04/27/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-PT-2-LED-05L-40

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[SEARCH_SOURCETYPE] 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	5042
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	3980
Maximum Candela Angle	77.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	3980
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	349 (6.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : ENM4-PT-2-LED-05L-40.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	265.6	N.A.	5.3
FM - Front-Medium (30-60)	1868.7	N.A.	37.1
FH - Front-High (60-80)	1128.2	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)	1101.9	N.A.	21.9
BH - Back-High (60-80)	396.4	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)	2.7	N.A.	0.1
Total	5041.8	N.A.	100.0
BUG Rating	B2-U1-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	75.0	77.5
0.0	421	421	421	421	421	421	421	421	421	421
2.5	423	422	422	424	426	425	424	425	419	416
5.0	424	416	433	434	425	419	417	399	392	390
7.5	424	429	434	427	426	419	427	426	422	419
10.0	434	437	451	428	440	447	454	452	438	433
12.5	485	494	484	461	476	475	488	478	477	475
15.0	500	516	512	520	539	515	524	520	529	519
17.5	516	531	523	542	562	581	566	574	580	577
20.0	576	587	579	577	599	615	642	634	637	644
22.5	603	603	613	639	649	664	712	702	711	712
25.0	640	626	644	676	700	717	769	793	785	786
27.5	683	714	724	719	738	792	832	878	884	891
30.0	750	747	745	775	802	864	902	972	1005	984
32.5	872	888	838	822	878	916	997	1090	1120	1111
35.0	998	978	968	949	944	1022	1085	1178	1244	1261
37.5	1197	1182	1110	1066	1085	1118	1188	1283	1352	1365
40.0	1338	1339	1294	1274	1210	1248	1293	1374	1481	1497
42.5	1496	1506	1465	1460	1415	1385	1420	1468	1575	1591
45.0	1630	1641	1619	1588	1587	1567	1562	1563	1697	1701
47.5	1705	1718	1719	1702	1739	1765	1743	1684	1819	1838
50.0	1714	1728	1752	1766	1855	1979	1980	1847	1961	1995
52.5	1639	1653	1701	1736	1892	2158	2259	2076	2142	2189
55.0	1460	1459	1529	1599	1825	2232	2556	2385	2349	2422
57.5	1161	1182	1251	1337	1623	2157	2839	2770	2619	2726
60.0	861	876	932	1008	1272	1898	3023	3158	2966	3096
62.5	602	611	640	691	875	1455	2998	3467	3364	3524
65.0	422	422	431	455	561	928	2637	3532	3732	3891
67.5	298	302	308	314	371	553	1953	3297	3839	3980
70.0	210	214	221	227	273	363	1229	2711	3456	3524
72.5	122	126	131	158	198	257	699	1872	2425	2366
75.0	67	70	68	88	129	190	389	1110	1198	1019
77.5	49	57	48	56	74	122	223	629	545	443
80.0	46	51	41	41	50	81	116	349	284	223
82.5	45	47	35	29	33	56	60	169	149	120
85.0	38	37	26	19	19	34	36	46	65	57
87.5	21	20	15	10	9	14	14	13	15	15
90.0	5	5	4	3	1	1	1	1	1	1
92.5	2	2	2	1	0	0	0	1	1	1
95.0	2	2	1	1	0	0	0	0	0	1
97.5	2	2	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	2	2	1	1	0	0	0	0	0	0
115.0	2	2	2	1	1	0	0	0	0	0
117.5	2	2	2	1	1	0	0	0	0	0
120.0	2	2	2	1	1	0	0	0	0	0
122.5	2	2	2	2	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	3	3	2	2	2	1	0	0	1	1

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CANDELA TABULATION - (Cont.)

132.5	3	3	2	2	1	1	0	0	1	1
135.0	2	2	2	2	1	1	0	0	0	1
137.5	2	1	1	1	0	0	0	0	0	0
140.0	0	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	1	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	418	416	418	419	424	419	415	410	410	417
5.0	404	400	394	382	390	396	392	386	384	377
7.5	403	397	405	406	400	381	359	351	361	353
10.0	419	419	414	419	381	375	358	342	330	335
12.5	454	449	444	432	401	374	348	355	357	367
15.0	488	496	472	442	398	376	387	387	388	389
17.5	550	526	515	474	410	403	423	422	419	431
20.0	614	602	569	506	429	449	448	462	476	495
22.5	711	668	641	561	492	496	491	510	534	556
25.0	782	759	735	606	566	542	547	572	606	627
27.5	892	835	818	669	642	595	617	644	704	733
30.0	983	937	906	735	704	675	688	732	772	814
32.5	1085	1052	991	831	766	759	784	816	874	938
35.0	1217	1161	1105	914	840	840	883	890	952	998
37.5	1349	1308	1212	1014	916	917	956	985	1002	1076
40.0	1474	1414	1302	1084	979	982	1009	1025	1033	1077
42.5	1568	1526	1380	1118	1026	1019	1028	1037	1000	1017
45.0	1692	1651	1463	1153	1051	1027	1017	994	922	924
47.5	1850	1802	1554	1185	1061	1004	967	916	823	807
50.0	2034	1939	1650	1209	1054	961	898	828	727	700
52.5	2247	2099	1737	1223	1035	909	815	737	643	612
55.0	2498	2284	1820	1228	1006	844	741	667	576	546
57.5	2790	2476	1883	1221	969	779	675	611	503	483
60.0	3104	2649	1911	1182	903	704	613	546	437	414
62.5	3372	2720	1841	1091	815	621	540	472	361	335
65.0	3478	2600	1626	928	690	514	451	383	284	251
67.5	3197	2189	1242	720	543	402	347	290	209	188
70.0	2452	1468	803	504	403	300	266	215	166	151
72.5	1274	712	464	341	296	227	200	170	128	107
75.0	485	325	294	231	217	180	162	123	83	72
77.5	207	175	190	173	166	147	114	85	67	63

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CANDELA TABULATION - (Cont.)

80.0	125	105	117	135	131	107	78	70	74	82
82.5	76	59	62	106	98	66	62	72	111	109
85.0	37	28	33	70	41	46	52	71	101	77
87.5	12	7	11	14	17	19	19	20	29	15
90.0	1	1	2	3	5	6	5	3	1	1
92.5	1	1	1	3	4	6	5	3	0	0
95.0	0	1	1	2	4	5	4	2	0	0
97.5	0	1	1	2	3	4	3	1	0	0
100.0	0	1	1	1	2	2	2	1	0	0
102.5	0	0	1	1	2	2	1	1	0	0
105.0	0	1	1	1	1	1	1	1	0	0
107.5	0	0	1	1	1	1	1	1	0	0
110.0	0	1	1	1	1	1	1	1	0	0
112.5	0	1	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	1	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	414	409
5.0	380	378
7.5	359	350
10.0	336	341
12.5	364	369
15.0	400	412
17.5	440	460
20.0	508	517
22.5	562	583
25.0	655	681

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CANDELA TABULATION - (Cont.)

27.5	750	779
30.0	845	888
32.5	966	999
35.0	1035	1079
37.5	1110	1158
40.0	1089	1134
42.5	1014	1059
45.0	911	953
47.5	796	834
50.0	691	724
52.5	611	639
55.0	540	566
57.5	474	499
60.0	399	412
62.5	312	323
65.0	231	239
67.5	186	192
70.0	154	159
72.5	112	118
75.0	86	97
77.5	78	90
80.0	102	115
82.5	122	130
85.0	82	84
87.5	6	11
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	1
132.5	1	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

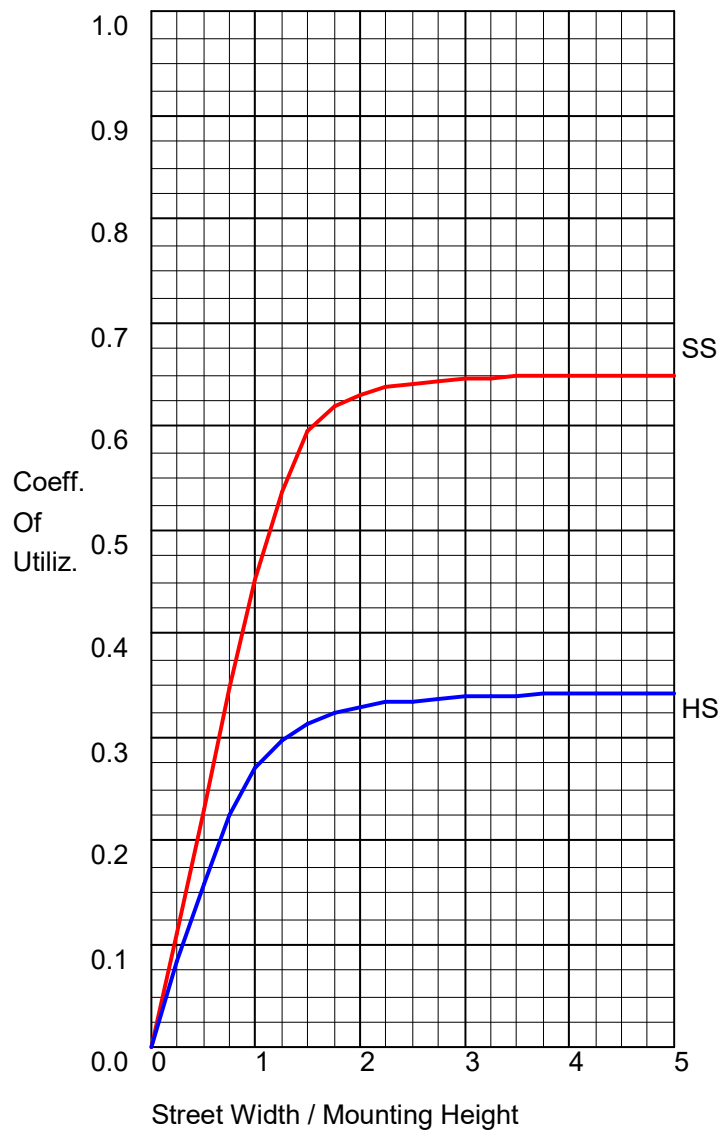
IES ROAD REPORT

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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

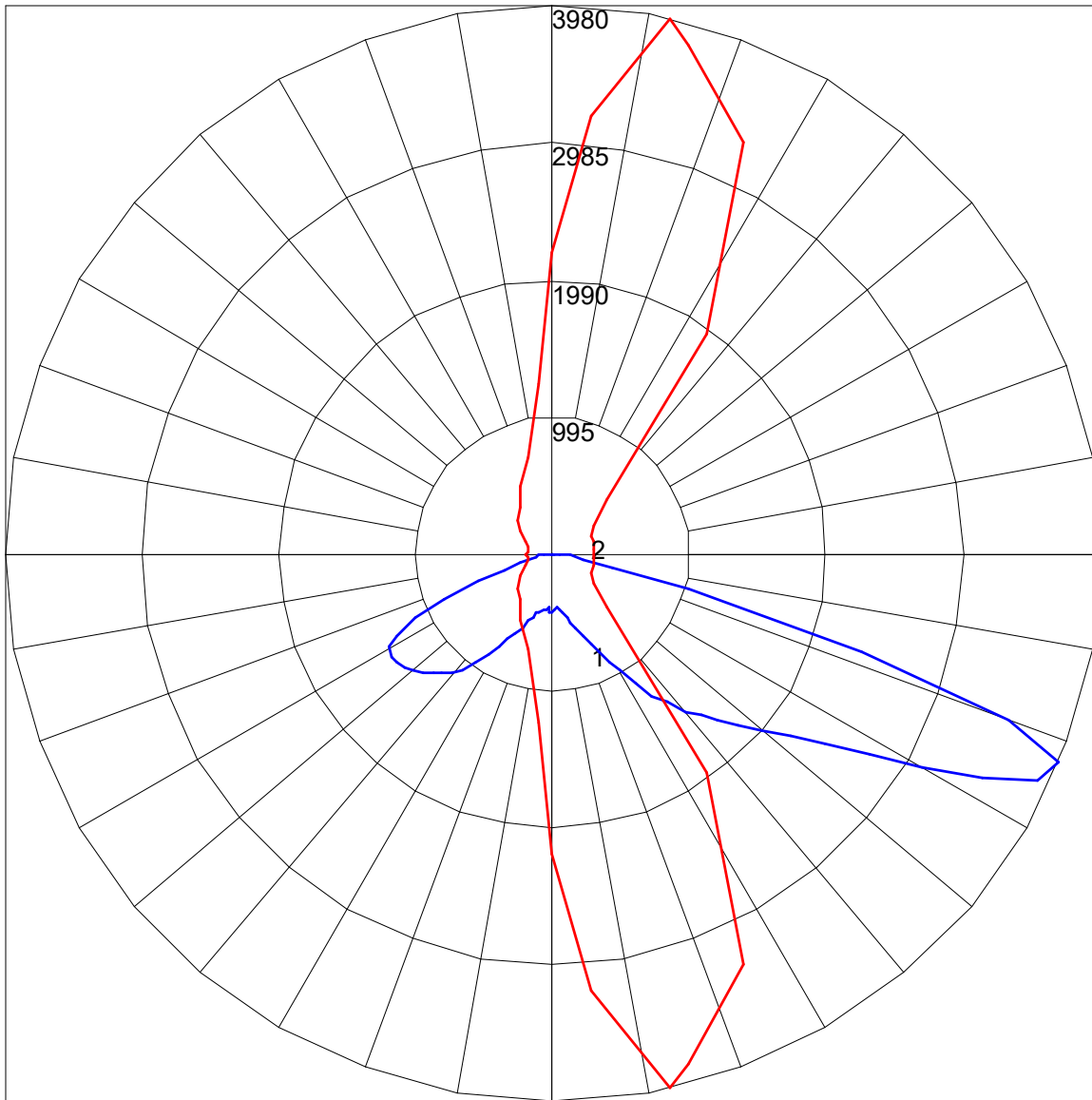
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

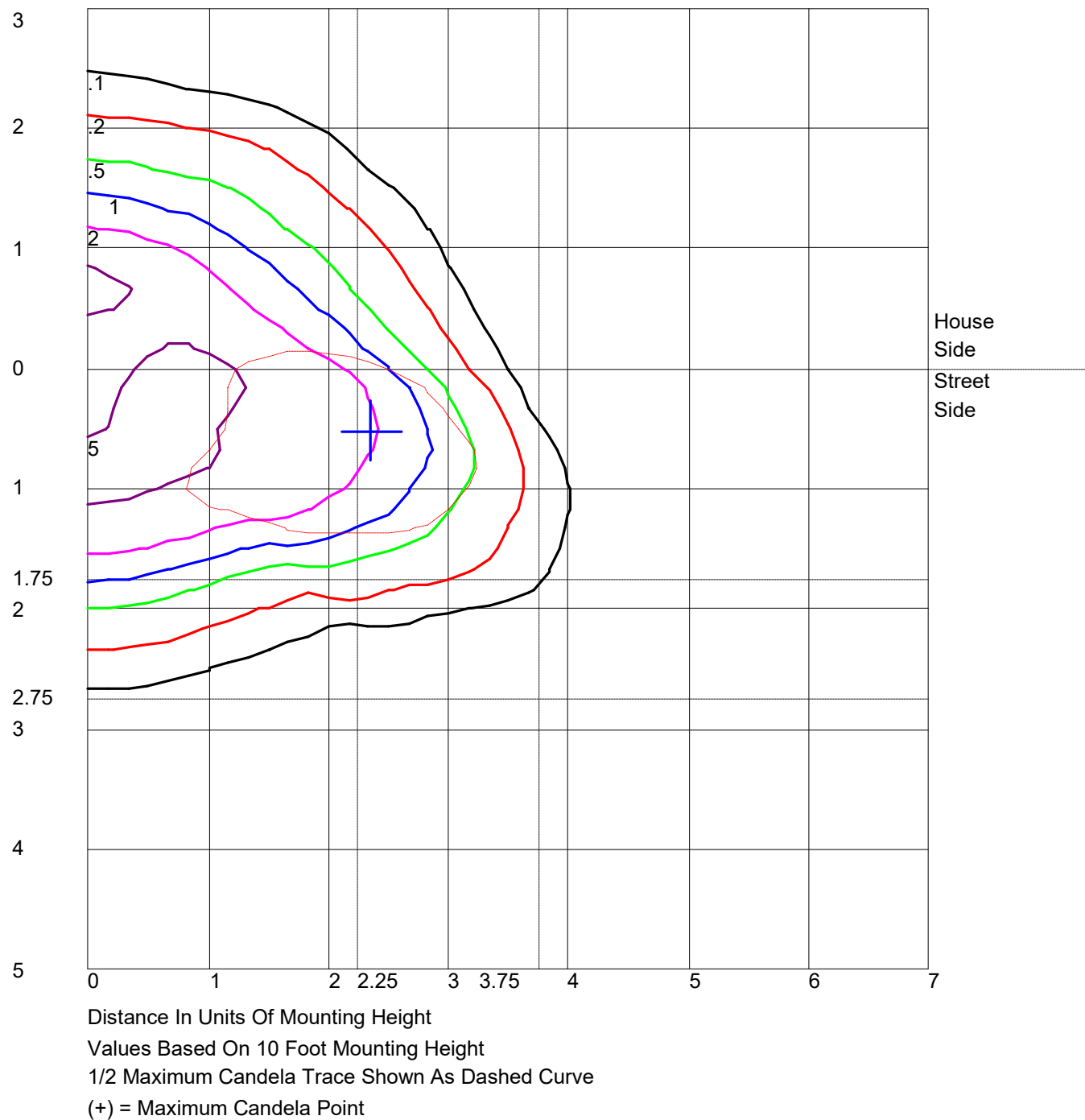
	Lumens	Percent Of Luminaire
Downward Street Side	3287.4	65.2
Downward House Side	1750.1	34.7
Downward Total	5037.5	99.9
Upward Street Side	1.7	0.0
Upward House Side	2.5	0.1
Upward Total	4.2	0.1
Total Flux	5041.7	100.0

POLAR GRAPH

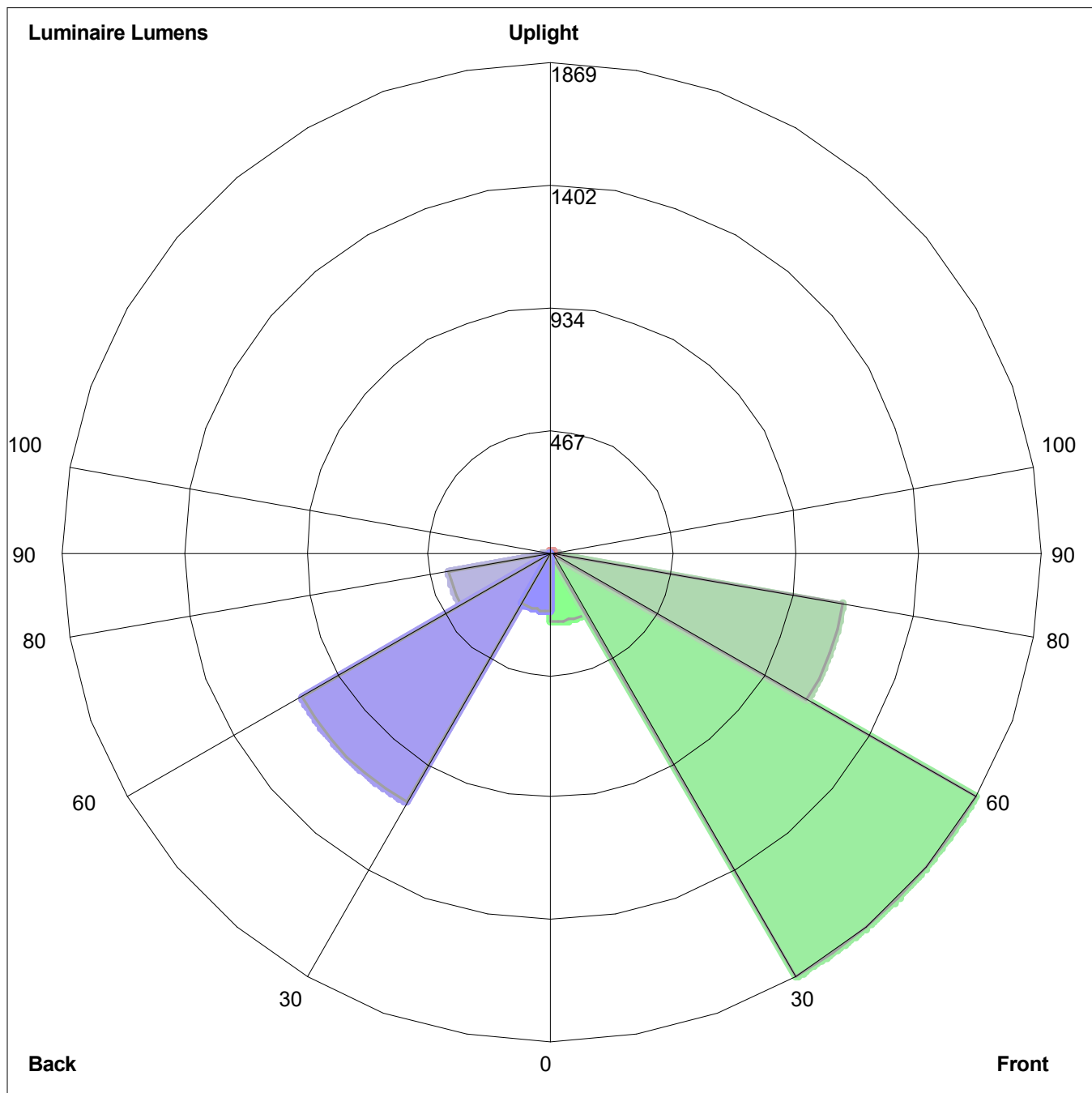


Maximum Candela = 3980 Located At Horizontal Angle = 77.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

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 ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=265.6, Medium=1868.7, High=1128.2, Very High=24.9
Back: Low=221.8, Medium=1101.9, High=396.4, Very High=30.1
Uplight: Low=1.5, High=2.7

BUG Rating : B2-U1-G1