



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-10L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11679
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 04/03/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-PT-FT-LED-10L-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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10067
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	77.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7068
Maximum Candela Angle	37.5H 72.5V
Maximum Candela (<90 Degrees Vertical)	7068
Maximum Candela Angle (<90 Degrees Vertical)	37.5H 72.5V
Maximum Candela At 90 Degrees Vertical	97 (1.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1927 (19.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	474.6	N.A.	4.7
FM - Front-Medium (30-60)	3025.1	N.A.	30.0
FH - Front-High (60-80)	3816.4	N.A.	37.9
FVH - Front-Very High (80-90)	207.8	N.A.	2.1
BL - Back-Low (0-30)	433.8	N.A.	4.3
BM - Back-Medium (30-60)	1425.0	N.A.	14.2
BH - Back-High (60-80)	609.1	N.A.	6.1
BVH - Back-Very High (80-90)	50.6	N.A.	0.5
UL - Uplight-Low (90-100)	7.9	N.A.	0.1
UH - Uplight-High (100-180)	16.8	N.A.	0.2
Total	10067.1	N.A.	100.0
BUG Rating	B2-U2-G2		

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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>37.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	824	824	824	824	824	824	824	824	824	824
2.5	808	816	811	808	812	813	814	826	831	823
5.0	761	759	773	789	805	802	786	764	768	763
7.5	739	748	776	747	742	741	738	760	809	799
10.0	745	742	745	727	742	750	792	807	810	812
12.5	790	786	783	739	790	785	810	835	860	885
15.0	841	830	825	843	872	869	858	896	936	960
17.5	894	883	877	903	925	950	969	959	1012	1054
20.0	1040	1035	1020	1006	1006	1009	1044	1086	1098	1147
22.5	1117	1138	1148	1154	1133	1129	1153	1205	1199	1258
25.0	1265	1253	1276	1278	1272	1293	1271	1336	1333	1360
27.5	1461	1472	1465	1401	1386	1393	1427	1440	1447	1473
30.0	1608	1610	1592	1583	1532	1506	1544	1569	1553	1545
32.5	1882	1865	1776	1694	1694	1705	1689	1690	1657	1657
35.0	2068	2066	1961	1915	1814	1808	1860	1810	1765	1737
37.5	2336	2291	2167	2078	1999	1972	1951	1928	1857	1807
40.0	2489	2466	2386	2263	2163	2143	2099	2040	1941	1876
42.5	2637	2642	2549	2440	2369	2326	2248	2203	2045	1908
45.0	2832	2828	2755	2625	2578	2548	2447	2364	2153	1970
47.5	3034	3044	2978	2876	2807	2766	2672	2571	2313	2075
50.0	3268	3272	3222	3164	3074	2997	2924	2814	2516	2216
52.5	3484	3498	3480	3436	3377	3282	3221	3121	2779	2428
55.0	3692	3702	3715	3704	3689	3580	3521	3492	3121	2704
57.5	3855	3863	3915	3951	3996	3908	3889	3955	3547	3024
60.0	4014	4012	4103	4178	4275	4227	4308	4529	4114	3419
62.5	4183	4208	4353	4431	4593	4583	4805	5219	4715	3815
65.0	4431	4453	4647	4774	5026	5120	5433	5867	5154	3933
67.5	4604	4651	4973	5248	5656	5856	6164	6298	5194	3592
70.0	4282	4343	4872	5693	6534	6731	6755	6235	4528	2655
72.5	3413	3496	4033	5225	6817	7068	6797	5366	3201	1539
75.0	1989	2073	2718	3925	5441	5825	5625	3752	1903	896
77.5	797	879	1301	2196	3441	3670	3619	2315	1169	606
80.0	409	469	782	1198	1744	1881	1927	1374	696	358
82.5	269	288	532	763	888	948	1054	702	400	204
85.0	203	220	380	515	578	579	506	311	195	114
87.5	137	150	257	290	331	313	135	104	67	51
90.0	52	58	97	50	43	42	18	9	6	6
92.5	9	8	7	6	5	5	4	4	3	4
95.0	4	4	4	5	5	5	5	4	3	3
97.5	3	3	3	4	4	4	4	4	3	3
100.0	2	3	3	3	4	4	4	3	3	3
102.5	2	2	2	3	3	3	3	3	3	3
105.0	2	2	2	3	3	3	3	3	3	3
107.5	2	2	2	3	3	3	3	3	3	3
110.0	2	2	2	3	3	3	3	3	3	3
112.5	3	3	3	3	3	3	3	3	3	3
115.0	3	3	3	3	3	3	3	3	3	4
117.5	3	3	3	3	3	3	3	3	3	4
120.0	4	4	4	3	3	3	3	3	3	4
122.5	4	4	4	4	4	4	4	3	3	4
125.0	4	4	4	4	4	4	4	4	4	4
127.5	4	4	4	4	4	4	4	4	4	4
130.0	4	5	4	4	4	4	4	4	4	5

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PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-10L-40.IES

CANDELA TABULATION - (Cont.)

132.5	5	5	5	5	4	4	4	4	4	5
135.0	4	4	4	4	4	4	4	3	4	4
137.5	2	2	2	3	3	3	3	3	3	4
140.0	1	1	1	2	2	2	2	2	2	2
142.5	1	1	1	2	2	2	2	2	2	2
145.0	1	1	1	2	2	2	2	2	2	2
147.5	1	1	1	2	2	2	2	2	2	2
150.0	1	1	1	2	2	2	2	2	2	2
152.5	0	0	1	2	2	2	1	1	2	2
155.0	0	1	1	2	2	2	2	1	2	2
157.5	1	1	1	2	2	2	2	1	2	2
160.0	0	0	1	2	1	2	1	1	1	2
162.5	1	1	1	2	1	1	1	1	1	2
165.0	1	0	1	2	1	1	1	1	1	2
167.5	0	0	1	1	1	1	1	1	1	2
170.0	1	1	1	2	2	2	1	1	1	2
172.5	1	0	1	1	2	2	2	1	1	2
175.0	0	0	1	2	2	2	2	1	2	2
177.5	0	1	1	2	2	2	2	1	2	2
180.0	1	1	1	1	1	1	1	1	1	1

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	824	824	824	824	824	824	824	824	824	824
2.5	825	834	829	826	824	830	841	841	833	816
5.0	768	765	757	780	790	793	807	808	799	773
7.5	804	808	807	839	801	751	716	741	732	755
10.0	807	815	803	833	762	771	749	748	728	759
12.5	882	884	905	864	805	770	773	827	816	871
15.0	958	966	946	896	815	845	864	912	920	910
17.5	1048	1036	1028	962	872	926	967	968	958	968
20.0	1185	1156	1135	988	929	993	990	1021	1034	1020
22.5	1306	1278	1273	1093	1046	1063	1067	1054	1045	1070
25.0	1437	1422	1375	1149	1182	1145	1083	1077	1087	1107
27.5	1525	1503	1473	1257	1275	1189	1130	1119	1152	1158
30.0	1615	1601	1559	1340	1339	1270	1182	1164	1154	1180
32.5	1659	1645	1592	1408	1399	1318	1242	1184	1186	1237
35.0	1724	1700	1647	1495	1436	1358	1287	1211	1205	1247
37.5	1776	1755	1693	1529	1449	1371	1292	1243	1207	1279
40.0	1790	1750	1681	1550	1454	1374	1303	1245	1224	1290
42.5	1800	1748	1664	1512	1406	1359	1283	1255	1234	1261
45.0	1836	1745	1656	1466	1347	1311	1249	1221	1242	1165
47.5	1886	1784	1667	1422	1277	1255	1196	1185	1175	1081
50.0	1979	1846	1699	1384	1205	1194	1144	1151	1078	1003
52.5	2110	1947	1783	1361	1128	1126	1083	1102	990	927
55.0	2309	2084	1883	1355	1052	1050	1015	1031	906	844
57.5	2555	2262	2011	1369	979	983	956	950	818	745
60.0	2814	2449	2110	1395	909	915	890	857	721	667
62.5	2962	2481	2016	1376	833	843	821	771	638	598
65.0	2883	2264	1659	1262	754	765	737	701	562	539
67.5	2370	1747	1140	1039	668	680	669	642	508	505
70.0	1409	1066	692	744	571	597	609	594	461	475
72.5	728	544	445	528	465	507	543	528	405	408
75.0	484	347	288	373	360	408	455	415	275	278
77.5	310	219	196	258	272	314	325	271	214	229

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-10L-40.IES

CANDELA TABULATION - (Cont.)

80.0	164	127	139	189	208	217	213	207	170	181
82.5	104	84	98	137	143	136	153	157	118	131
85.0	64	48	59	84	83	84	101	94	59	83
87.5	28	17	25	39	39	41	35	36	23	35
90.0	5	4	9	12	14	13	10	6	2	1
92.5	4	3	9	12	13	12	10	6	2	2
95.0	4	4	8	12	13	12	9	7	3	2
97.5	4	3	7	10	11	10	8	6	3	3
100.0	3	3	5	8	9	9	8	6	4	3
102.5	3	4	5	6	7	7	7	6	4	3
105.0	3	4	5	5	6	6	6	5	4	3
107.5	3	4	4	5	5	5	5	4	3	3
110.0	4	4	5	5	5	5	5	4	4	3
112.5	4	4	5	5	5	5	5	5	4	4
115.0	4	5	5	5	6	6	5	5	4	4
117.5	4	5	5	5	6	6	6	5	5	4
120.0	4	5	5	5	6	6	6	5	5	4
122.5	5	5	5	5	6	6	6	6	5	4
125.0	5	5	5	6	6	6	6	5	5	4
127.5	5	5	5	5	5	5	5	5	5	4
130.0	5	5	5	5	5	5	5	5	4	4
132.5	5	5	5	5	5	5	5	5	4	4
135.0	5	5	5	5	5	4	4	3	3	3
137.5	4	4	4	4	4	3	3	2	2	1
140.0	3	3	3	3	3	2	2	1	1	0
142.5	3	3	3	3	2	2	1	1	0	0
145.0	3	3	3	3	2	2	1	1	0	0
147.5	2	3	3	3	2	1	1	0	0	0
150.0	2	3	3	2	2	2	1	0	0	0
152.5	2	2	2	2	2	1	1	0	0	0
155.0	2	2	2	2	2	1	1	0	0	0
157.5	2	2	2	2	2	1	1	0	0	0
160.0	2	2	2	2	2	1	0	0	0	0
162.5	2	2	2	2	2	1	0	0	0	0
165.0	2	2	2	2	2	1	0	0	0	0
167.5	2	2	2	2	1	1	0	0	0	0
170.0	2	2	2	2	2	1	0	0	0	0
172.5	2	2	2	2	2	1	0	0	0	0
175.0	2	2	2	2	2	1	0	0	0	0
177.5	2	2	2	2	2	1	0	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	824	824
2.5	812	814
5.0	768	777
7.5	751	761
10.0	789	792
12.5	884	891
15.0	948	969
17.5	1003	1007
20.0	1057	1049
22.5	1068	1093
25.0	1128	1143

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PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-10L-40.IES

CANDELA TABULATION - (Cont.)

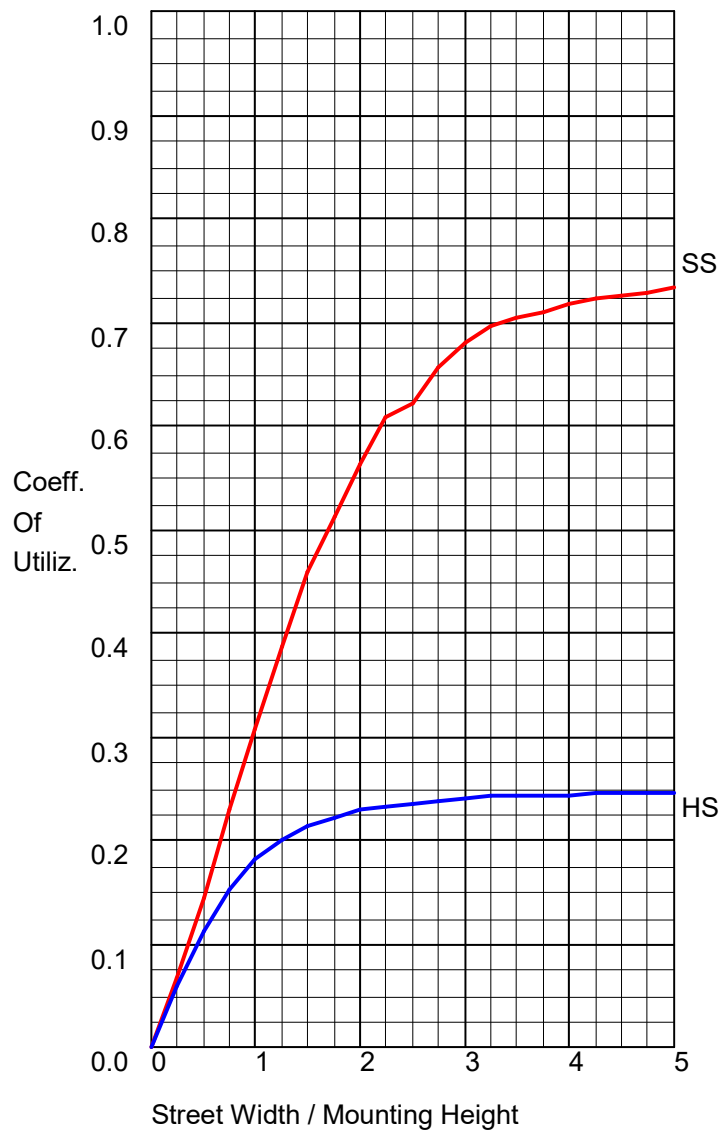
27.5	1164	1172
30.0	1196	1215
32.5	1250	1256
35.0	1272	1261
37.5	1310	1301
40.0	1303	1289
42.5	1208	1193
45.0	1119	1106
47.5	1044	1032
50.0	974	964
52.5	903	890
55.0	822	808
57.5	722	714
60.0	644	636
62.5	577	565
65.0	533	524
67.5	513	503
70.0	496	485
72.5	430	418
75.0	335	332
77.5	311	321
80.0	259	282
82.5	206	230
85.0	142	165
87.5	75	89
90.0	0	0
92.5	0	0
95.0	1	1
97.5	2	2
100.0	2	2
102.5	3	3
105.0	3	3
107.5	3	3
110.0	3	3
112.5	3	3
115.0	3	3
117.5	3	3
120.0	3	3
122.5	3	3
125.0	3	3
127.5	3	3
130.0	3	3
132.5	3	3
135.0	2	2
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
PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-10L-40.IES

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

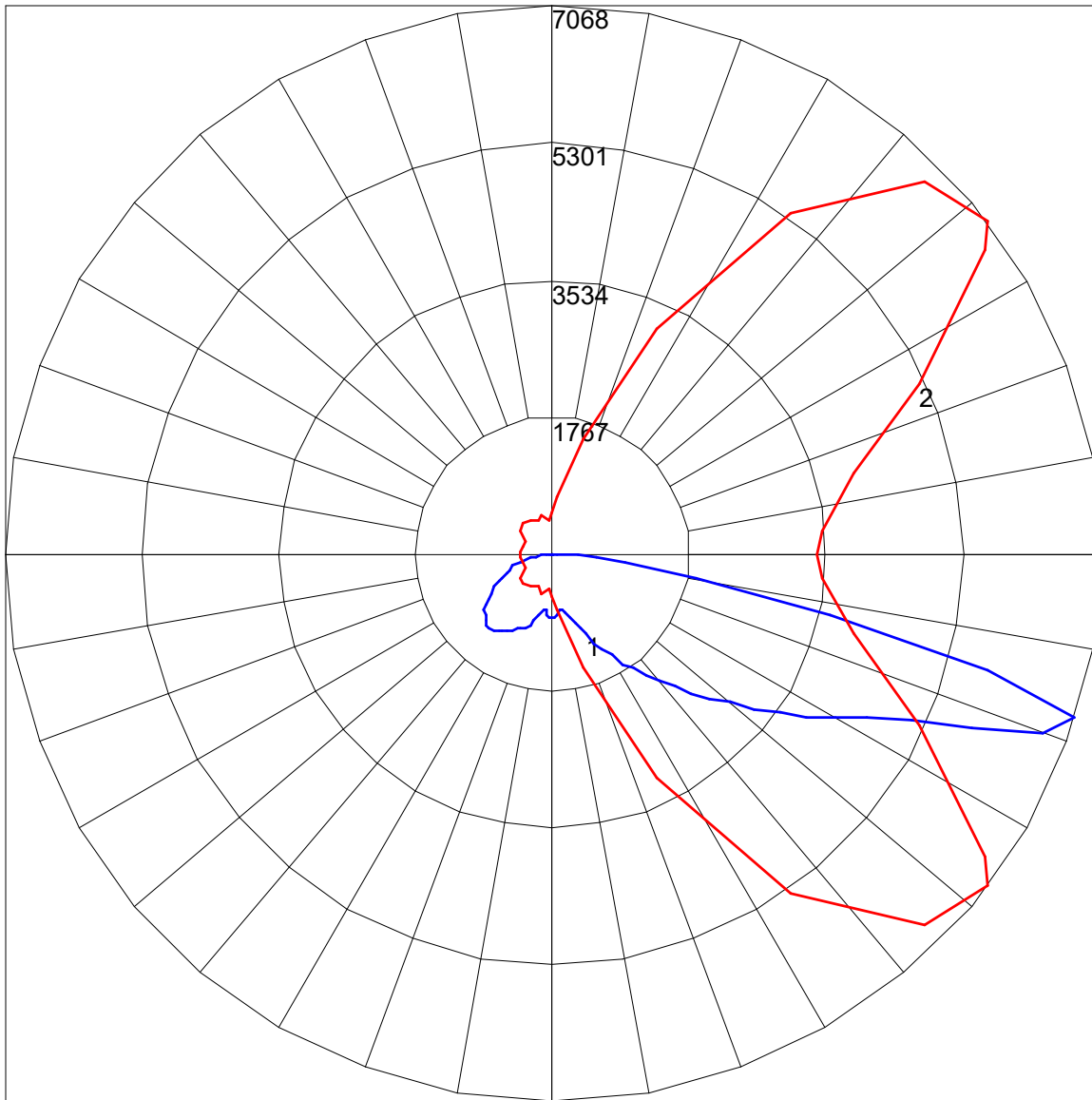
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

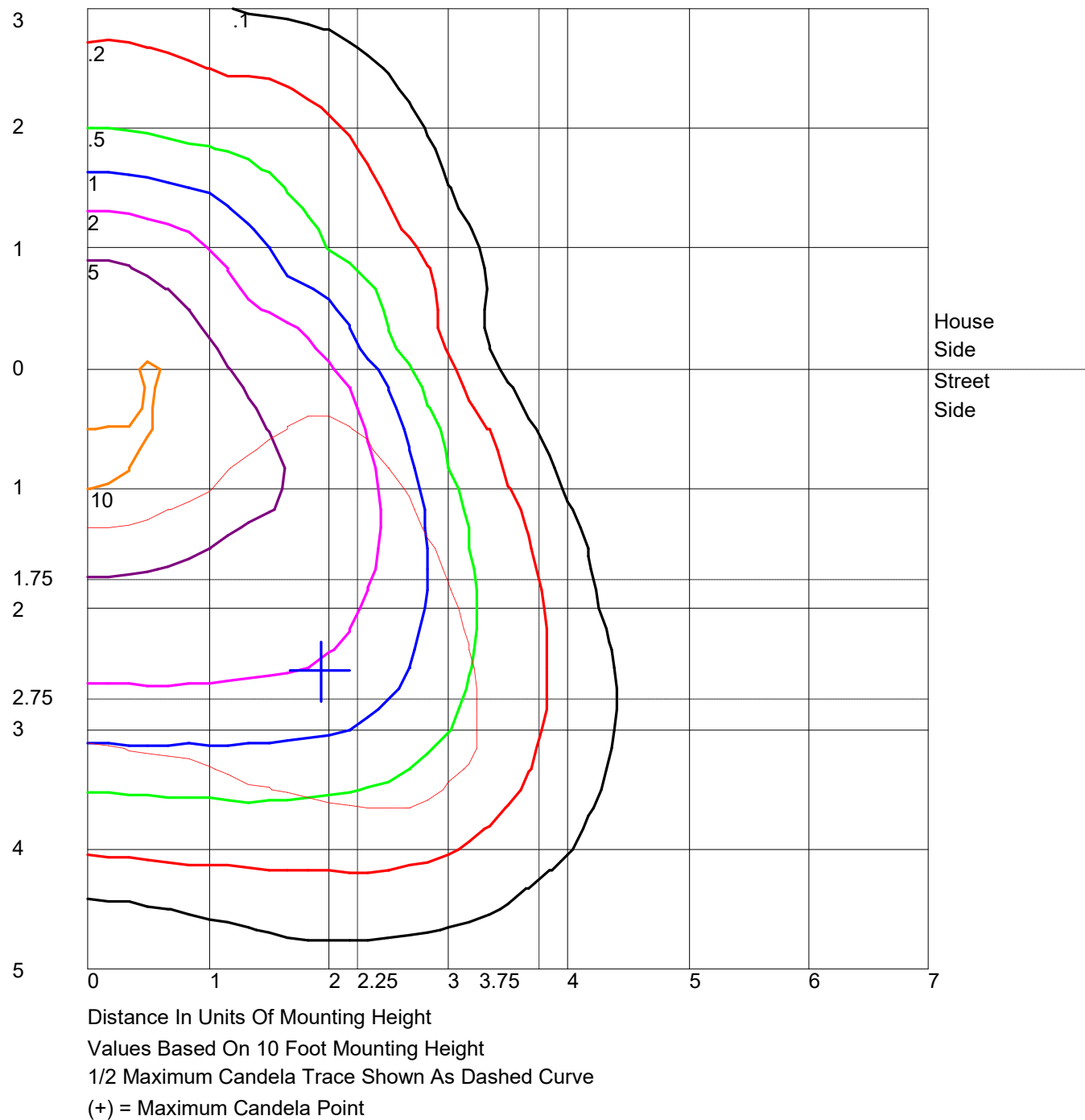
	Lumens	Percent Of Luminaire
Downward Street Side	7523.9	74.7
Downward House Side	2518.5	25.0
Downward Total	10042.4	99.8
Upward Street Side	11.7	0.1
Upward House Side	13.0	0.1
Upward Total	24.7	0.2
Total Flux	10067.1	100.0

POLAR GRAPH

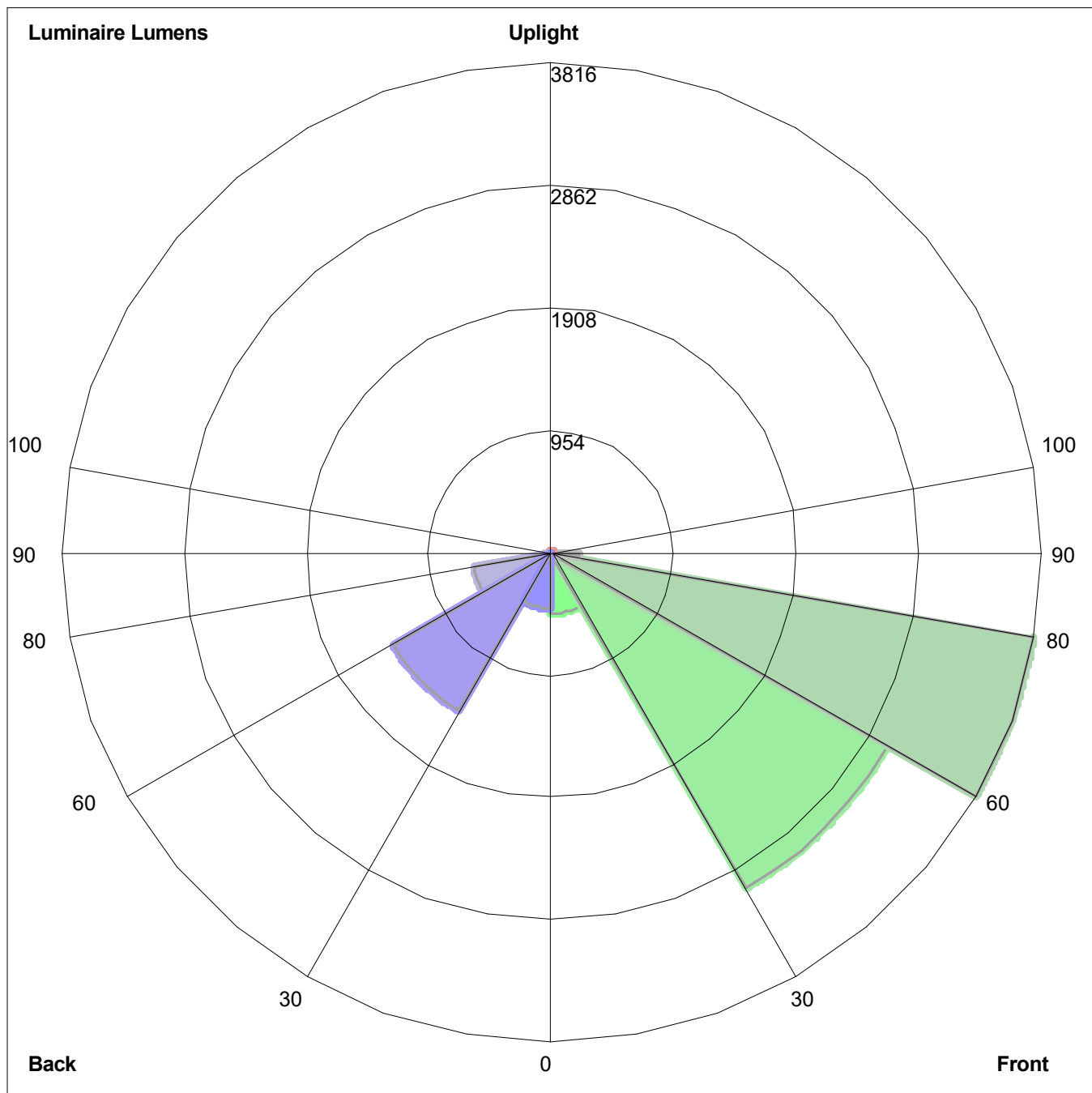


Maximum Candela = 7068 Located At Horizontal Angle = 37.5, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (37.5 - 217.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=474.6, Medium=3025.1, High=3816.4, Very High=207.8
Back: Low=433.8, Medium= 1425.0, High=609.1, Very High=50.6
Uplight: Low=7.9, High=16.8

BUG Rating : B2-U2-G2