



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-10L-50.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-50
[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	10538
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	77.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7399
Maximum Candela Angle	37.5H 72.5V
Maximum Candela (<90 Degrees Vertical)	7399
Maximum Candela Angle (<90 Degrees Vertical)	37.5H 72.5V
Maximum Candela At 90 Degrees Vertical	102 (1.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2017 (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)	496.9	N.A.	4.7
FM - Front-Medium (30-60)	3167.0	N.A.	30.1
FH - Front-High (60-80)	3995.3	N.A.	37.9
FVH - Front-Very High (80-90)	217.6	N.A.	2.1
BL - Back-Low (0-30)	454.1	N.A.	4.3
BM - Back-Medium (30-60)	1491.8	N.A.	14.2
BH - Back-High (60-80)	637.7	N.A.	6.1
BVH - Back-Very High (80-90)	53.0	N.A.	0.5
UL - Uplight-Low (90-100)	8.2	N.A.	0.1
UH - Uplight-High (100-180)	16.8	N.A.	0.2
Total	10538.4	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	863	863	863	863	863	863	863	863	863	863
2.5	846	854	849	846	850	851	852	865	870	862
5.0	797	795	809	826	843	840	823	800	804	799
7.5	774	783	812	782	777	776	773	796	847	836
10.0	780	777	780	761	777	785	829	845	848	850
12.5	827	823	820	774	827	822	848	874	900	927
15.0	880	869	864	883	913	910	898	938	980	1005
17.5	936	924	918	945	968	995	1014	1004	1059	1103
20.0	1089	1084	1068	1053	1053	1056	1093	1137	1149	1201
22.5	1169	1191	1202	1208	1186	1182	1207	1262	1255	1317
25.0	1324	1312	1336	1338	1332	1354	1331	1399	1396	1424
27.5	1530	1541	1534	1467	1451	1458	1494	1508	1515	1542
30.0	1683	1686	1667	1657	1604	1577	1616	1643	1626	1617
32.5	1970	1952	1859	1773	1773	1785	1768	1769	1735	1735
35.0	2165	2163	2053	2005	1899	1893	1947	1895	1848	1818
37.5	2446	2398	2269	2175	2093	2064	2043	2018	1944	1892
40.0	2606	2582	2498	2369	2264	2244	2197	2136	2032	1964
42.5	2761	2766	2669	2554	2480	2435	2353	2306	2141	1997
45.0	2965	2961	2884	2748	2699	2668	2562	2475	2254	2062
47.5	3176	3187	3118	3011	2939	2896	2797	2692	2421	2172
50.0	3421	3425	3373	3312	3218	3138	3061	2946	2634	2320
52.5	3647	3662	3643	3597	3535	3436	3372	3267	2909	2542
55.0	3865	3876	3889	3878	3862	3748	3686	3656	3267	2831
57.5	4036	4044	4099	4136	4183	4091	4071	4140	3713	3166
60.0	4202	4200	4295	4374	4475	4425	4510	4741	4307	3579
62.5	4379	4405	4557	4639	4808	4798	5030	5464	4936	3994
65.0	4639	4662	4865	4998	5262	5360	5688	6142	5396	4117
67.5	4820	4869	5206	5494	5921	6131	6453	6593	5438	3760
70.0	4483	4547	5100	5960	6840	7047	7072	6527	4740	2780
72.5	3573	3660	4222	5470	7137	7399	7116	5618	3351	1611
75.0	2082	2170	2845	4109	5696	6098	5889	3928	1992	938
77.5	834	920	1362	2299	3602	3842	3789	2424	1224	634
80.0	428	491	819	1254	1826	1969	2017	1438	729	375
82.5	282	302	557	799	930	992	1103	735	419	214
85.0	213	230	398	539	605	606	530	326	204	119
87.5	143	157	269	304	347	328	141	109	70	53
90.0	54	61	102	52	45	44	19	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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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	863	863	863	863	863	863	863	863	863	863
2.5	864	873	868	865	863	869	880	880	872	854
5.0	804	801	793	817	827	830	845	846	836	809
7.5	842	846	845	878	839	786	750	776	766	790
10.0	845	853	841	872	798	807	784	783	762	795
12.5	923	925	947	905	843	806	809	866	854	912
15.0	1003	1011	990	938	853	885	905	955	963	953
17.5	1097	1085	1076	1007	913	969	1012	1013	1003	1013
20.0	1241	1210	1188	1034	973	1040	1036	1069	1082	1068
22.5	1367	1338	1333	1144	1095	1113	1117	1103	1094	1120
25.0	1504	1489	1439	1203	1237	1199	1134	1128	1138	1159
27.5	1597	1573	1542	1316	1335	1245	1183	1171	1206	1212
30.0	1691	1676	1632	1403	1402	1330	1237	1219	1208	1235
32.5	1737	1722	1667	1474	1465	1380	1300	1240	1242	1295
35.0	1805	1780	1724	1565	1503	1422	1347	1268	1262	1305
37.5	1859	1837	1772	1601	1517	1435	1353	1301	1264	1339
40.0	1874	1832	1760	1623	1522	1438	1364	1303	1281	1351
42.5	1884	1830	1742	1583	1472	1423	1343	1314	1292	1320
45.0	1922	1827	1734	1535	1410	1372	1308	1278	1300	1220
47.5	1974	1868	1745	1489	1337	1314	1252	1241	1230	1132
50.0	2072	1933	1779	1449	1262	1250	1198	1205	1129	1050
52.5	2209	2038	1867	1425	1181	1179	1134	1154	1036	970
55.0	2417	2182	1971	1419	1101	1099	1063	1079	948	884
57.5	2675	2368	2105	1433	1025	1029	1001	995	856	780
60.0	2946	2564	2209	1460	952	958	932	897	755	698
62.5	3101	2597	2111	1441	872	883	860	807	668	626
65.0	3018	2370	1737	1321	789	801	772	734	588	564
67.5	2481	1829	1193	1088	699	712	700	672	532	529
70.0	1475	1116	724	779	598	625	638	622	483	497
72.5	762	570	466	553	487	531	568	553	424	427
75.0	507	363	302	390	377	427	476	434	288	291
77.5	325	229	205	270	285	329	340	284	224	240

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CANDELA TABULATION - (Cont.)

80.0	172	133	146	198	218	227	223	217	178	189
82.5	109	88	103	143	150	142	160	164	124	137
85.0	67	50	62	88	87	88	106	98	62	87
87.5	29	18	26	41	41	43	37	38	24	37
90.0	5	4	9	13	15	14	10	6	2	1
92.5	4	3	9	13	14	13	10	6	2	2
95.0	4	4	8	13	14	13	9	7	3	2
97.5	4	3	7	10	12	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	863	863
2.5	850	852
5.0	804	813
7.5	786	797
10.0	826	829
12.5	925	933
15.0	992	1014
17.5	1050	1054
20.0	1107	1098
22.5	1118	1144
25.0	1181	1197

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CANDELA TABULATION - (Cont.)

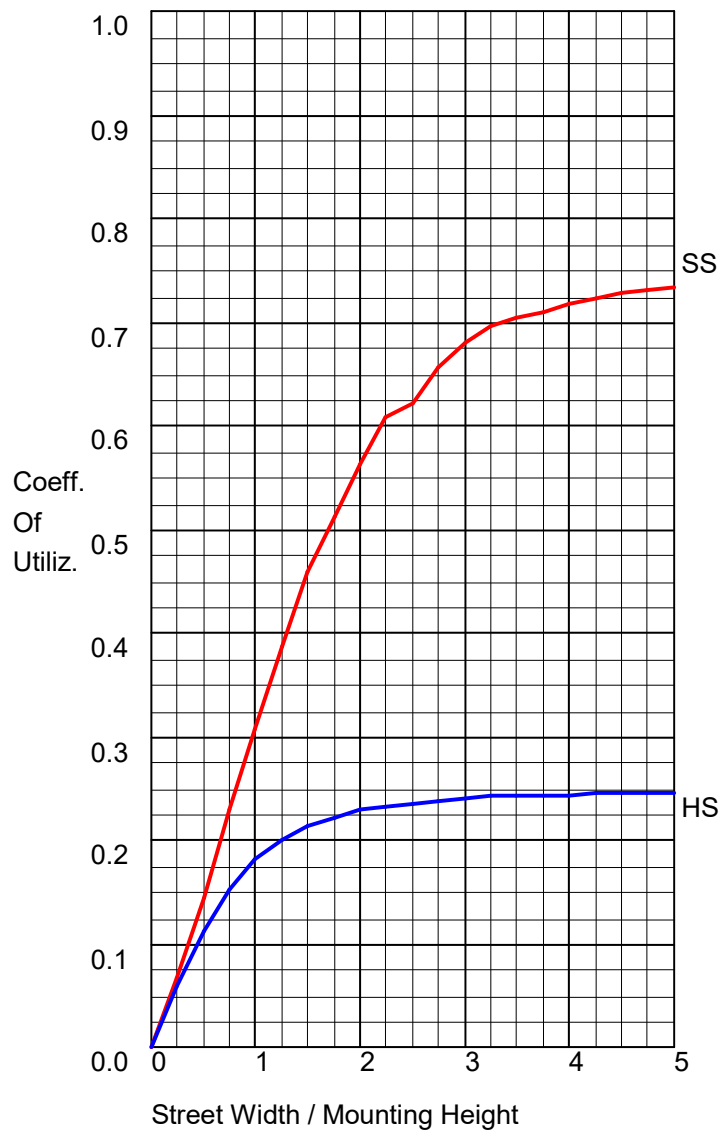
27.5	1219	1227
30.0	1252	1272
32.5	1309	1315
35.0	1332	1320
37.5	1371	1362
40.0	1364	1349
42.5	1265	1249
45.0	1171	1158
47.5	1093	1080
50.0	1020	1009
52.5	945	932
55.0	861	846
57.5	756	747
60.0	674	666
62.5	604	591
65.0	558	549
67.5	537	527
70.0	519	508
72.5	450	438
75.0	351	348
77.5	326	336
80.0	271	295
82.5	216	241
85.0	149	173
87.5	79	93
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

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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

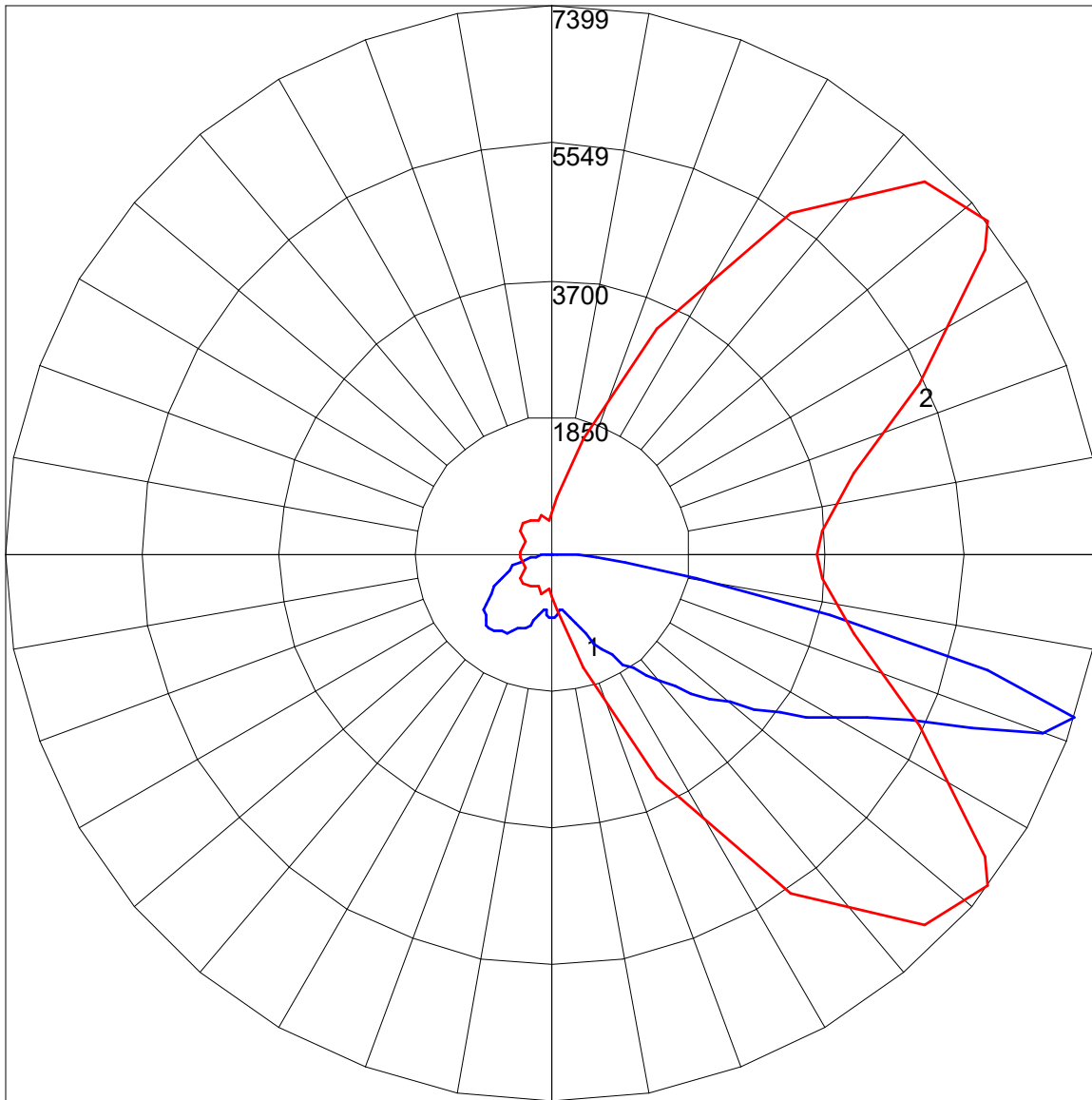
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

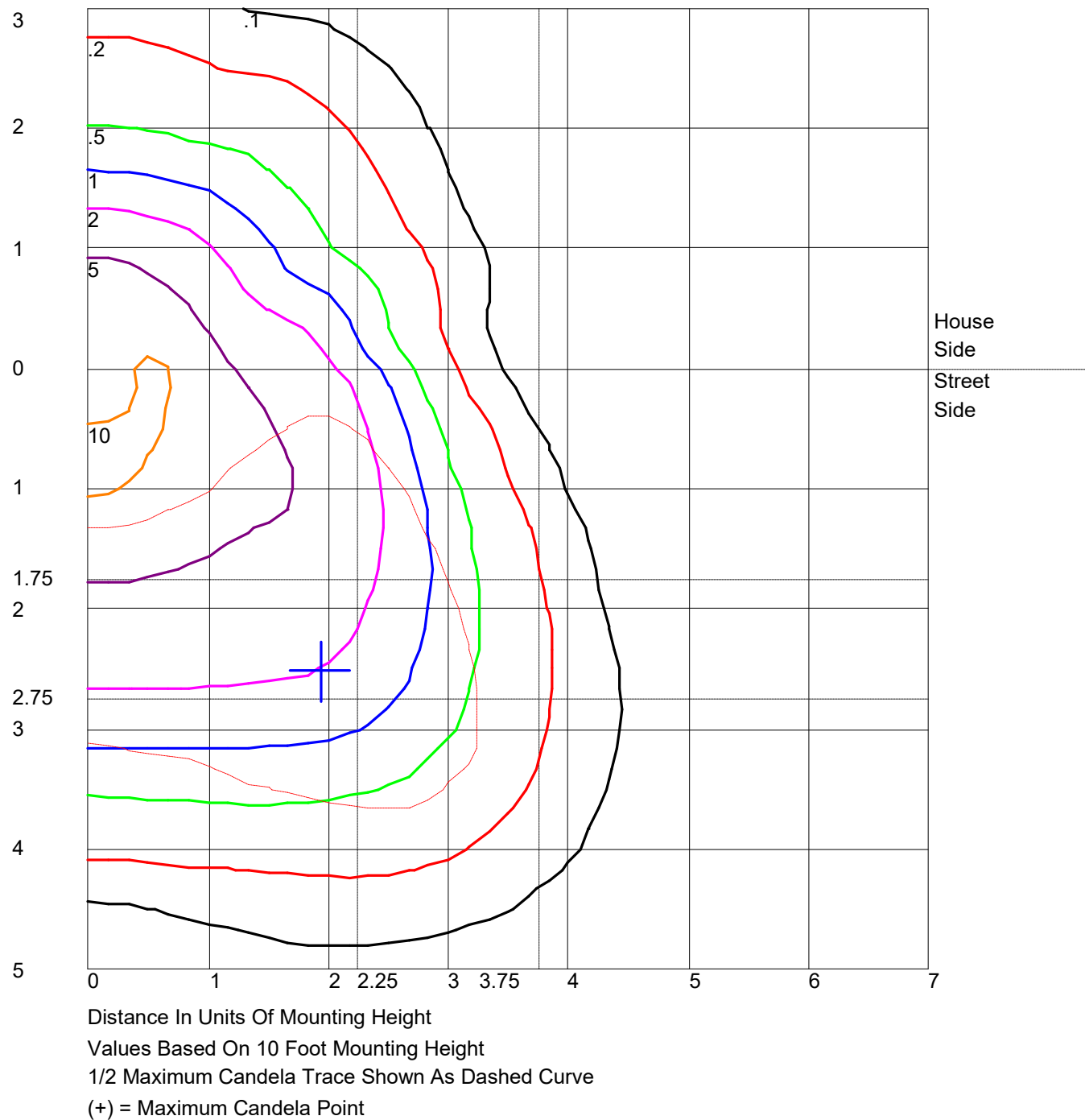
	Lumens	Percent Of Luminaire
Downward Street Side	7876.7	74.7
Downward House Side	2636.7	25.0
Downward Total	10513.4	99.8
Upward Street Side	11.8	0.1
Upward House Side	13.2	0.1
Upward Total	25.0	0.2
Total Flux	10538.4	100.0

POLAR GRAPH

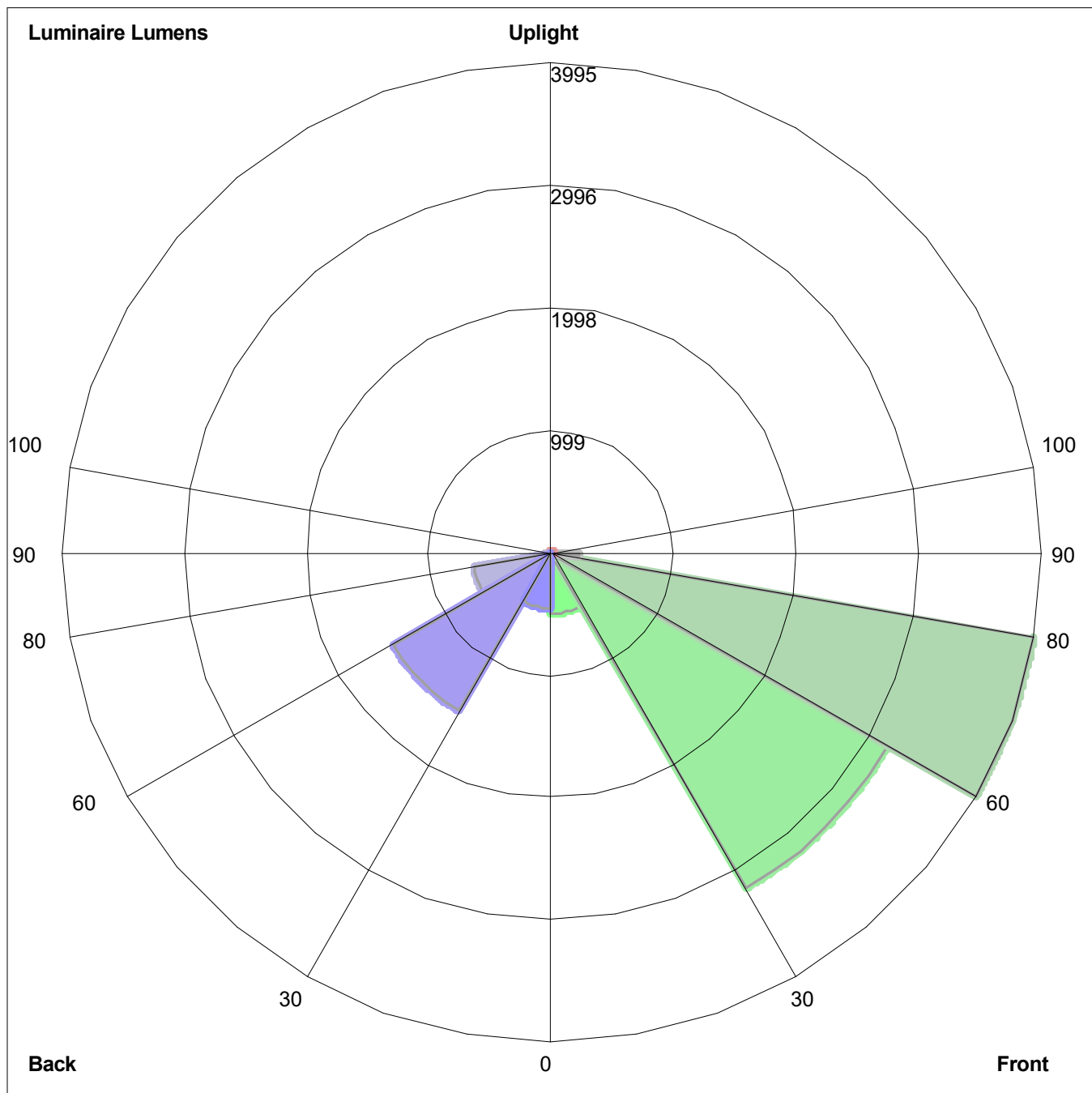


Maximum Candela = 7399 Located At Horizontal Angle = 37.5, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (37.5 - 217.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=496.9, Medium= 3167.0, High=3995.3, Very High=217.6
Back: Low=454.1, Medium=1491.8, High=637.7, Very High=53.0
Uplight: Low=8.2, High=16.8

BUG Rating : B2-U2-G2