



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-10L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11669

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUEDATE] 06/10/20

[TESTDATE] 04/01/20

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

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

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

[LUMCAT] LXM4-PT-2-LED-10L-40

[MANUFAC] LSI INDUSTRIES, INC.

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10054
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	77.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8124
Maximum Candela Angle	82.5H 65V
Maximum Candela (<90 Degrees Vertical)	8124
Maximum Candela Angle (<90 Degrees Vertical)	82.5H 65V
Maximum Candela At 90 Degrees Vertical	13 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	531 (5.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	545.0	N.A.	5.4
FM - Front-Medium (30-60)	3778.7	N.A.	37.6
FH - Front-High (60-80)	1977.0	N.A.	19.7
FVH - Front-Very High (80-90)	44.1	N.A.	0.4
BL - Back-Low (0-30)	430.0	N.A.	4.3
BM - Back-Medium (30-60)	2276.0	N.A.	22.6
BH - Back-High (60-80)	930.9	N.A.	9.3
BVH - Back-Very High (80-90)	57.1	N.A.	0.6
UL - Uplight-Low (90-100)	4.2	N.A.	0.0
UH - Uplight-High (100-180)	11.6	N.A.	0.1
Total	10054.6	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>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>82.5</u>
0.0	871	871	871	871	871	871	871	871	871	871
2.5	887	889	873	873	875	879	875	864	847	849
5.0	853	863	862	868	857	851	849	823	828	819
7.5	865	876	858	875	835	866	849	847	869	841
10.0	887	884	881	875	879	899	912	894	897	887
12.5	985	968	953	941	929	961	988	995	964	969
15.0	1033	995	1021	1036	1037	1056	1064	1092	1080	1026
17.5	1068	1042	1076	1070	1134	1156	1170	1193	1195	1160
20.0	1175	1151	1181	1165	1163	1238	1291	1297	1335	1327
22.5	1196	1225	1256	1288	1294	1332	1429	1436	1496	1492
25.0	1303	1329	1330	1360	1436	1453	1542	1592	1623	1681
27.5	1539	1500	1521	1517	1552	1615	1688	1768	1811	1870
30.0	1699	1741	1724	1719	1733	1765	1857	1932	2056	2073
32.5	2187	2114	2032	1936	1958	1973	2036	2106	2272	2269
35.0	2496	2520	2370	2335	2206	2201	2253	2337	2430	2542
37.5	3051	3042	2816	2656	2551	2533	2509	2503	2665	2747
40.0	3316	3308	3230	3071	2933	2927	2773	2778	2835	2965
42.5	3516	3504	3432	3348	3326	3248	3127	3031	2962	3119
45.0	3583	3606	3543	3504	3553	3573	3449	3318	3112	3317
47.5	3524	3544	3518	3555	3658	3813	3876	3700	3329	3573
50.0	3291	3326	3364	3426	3650	4013	4320	4190	3622	3898
52.5	2920	2917	3013	3140	3504	4056	4753	4764	4007	4346
55.0	2347	2353	2462	2667	3097	3901	5068	5450	4506	4887
57.5	1761	1761	1872	2058	2495	3460	5231	6116	5158	5564
60.0	1243	1246	1289	1416	1796	2748	5096	6698	5928	6433
62.5	869	857	869	932	1166	1894	4482	6989	6693	7344
65.0	631	622	626	658	781	1154	3509	6815	7293	8124
67.5	454	464	468	493	572	750	2415	5840	7232	7811
70.0	339	348	352	379	443	540	1469	4216	6058	5934
72.5	216	223	233	279	341	417	851	2505	3907	2967
75.0	126	137	129	165	227	317	513	1499	1939	1068
77.5	105	118	98	106	129	201	336	902	944	492
80.0	102	109	88	80	90	129	191	531	505	276
82.5	97	96	70	58	59	88	105	273	272	168
85.0	72	71	50	37	36	53	61	76	128	85
87.5	28	29	24	18	15	19	18	21	25	26
90.0	6	6	6	4	2	1	1	2	4	4
92.5	4	4	3	2	1	1	0	1	2	3
95.0	3	3	3	2	1	1	0	0	1	1
97.5	3	3	3	2	1	0	0	0	1	1
100.0	3	3	3	2	1	1	0	0	0	1
102.5	3	3	2	2	1	0	0	0	0	1
105.0	3	3	2	2	1	1	0	0	0	1
107.5	3	3	3	2	1	1	0	0	0	1
110.0	3	3	3	2	1	1	0	0	1	1
112.5	4	3	3	3	2	1	0	0	1	1
115.0	4	4	4	3	2	1	1	0	1	1
117.5	4	4	4	3	2	2	1	1	1	1
120.0	4	4	4	4	3	2	1	1	1	1
122.5	5	5	4	4	3	2	1	1	1	2
125.0	5	5	5	4	3	2	1	1	2	2
127.5	6	5	5	5	4	3	1	1	2	3
130.0	6	6	6	5	4	3	2	2	3	3

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CANDELA TABULATION - (Cont.)

132.5	6	6	6	5	4	3	2	1	3	3
135.0	5	5	5	4	3	3	1	1	2	2
137.5	2	2	2	1	1	1	0	0	0	1
140.0	1	1	0	0	0	0	0	0	0	0
142.5	1	0	0	0	0	0	0	0	0	0
145.0	1	1	0	0	0	0	0	0	0	0
147.5	1	1	0	0	0	0	0	0	0	0
150.0	1	0	0	0	0	0	0	0	0	0
152.5	1	0	0	0	0	0	0	0	0	0
155.0	1	1	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	1	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	1	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	1	0	0	0	0	0	0	0	0	0
175.0	1	0	0	0	0	0	0	0	0	0
177.5	1	1	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	871	871	871	871	871	871	871	871	871	871
2.5	851	863	856	858	864	853	854	856	862	866
5.0	821	831	820	780	811	813	818	808	809	791
7.5	826	838	842	831	820	791	740	748	757	763
10.0	895	869	845	853	805	787	749	742	706	725
12.5	934	947	921	904	845	782	755	768	742	762
15.0	1041	1028	1003	941	860	832	794	796	778	752
17.5	1140	1118	1083	1010	911	867	852	817	800	784
20.0	1291	1253	1210	1079	965	911	857	853	851	850
22.5	1460	1403	1368	1201	1059	981	913	890	910	955
25.0	1639	1591	1533	1347	1208	1029	944	959	1004	1076
27.5	1857	1801	1741	1543	1342	1086	1024	1069	1162	1235
30.0	2046	2032	1925	1681	1462	1182	1150	1206	1293	1385
32.5	2308	2252	2128	1866	1568	1326	1318	1359	1487	1635
35.0	2527	2514	2390	2071	1652	1464	1501	1556	1678	1823
37.5	2769	2755	2622	2279	1812	1626	1657	1746	1816	2013
40.0	2985	2962	2838	2485	1932	1799	1838	1899	1964	2099
42.5	3172	3150	3019	2612	2039	1945	1950	1999	1991	2063
45.0	3380	3387	3211	2700	2105	2008	1976	1976	1919	1927
47.5	3652	3651	3465	2768	2163	2008	1924	1870	1772	1730
50.0	3988	3985	3738	2822	2187	1966	1814	1693	1554	1499
52.5	4394	4385	4030	2859	2177	1873	1663	1503	1330	1274
55.0	4931	4874	4364	2877	2148	1768	1504	1328	1160	1098
57.5	5634	5517	4680	2872	2104	1646	1357	1186	1029	981
60.0	6494	6134	4939	2829	2029	1532	1250	1079	915	870
62.5	7316	6622	4985	2678	1907	1398	1131	985	793	735
65.0	7857	6565	4587	2315	1670	1225	984	852	644	576
67.5	7271	5551	3591	1720	1317	960	787	678	484	426
70.0	5295	3712	2300	1122	899	692	590	501	357	318
72.5	2617	1797	1208	736	627	497	436	369	262	223
75.0	878	680	595	491	440	374	329	259	174	151
77.5	408	332	355	351	328	291	235	173	131	122

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CANDELA TABULATION - (Cont.)

80.0	245	211	217	258	259	211	158	138	121	127
82.5	142	125	122	199	192	135	120	129	165	173
85.0	74	66	68	120	92	90	98	133	176	148
87.5	26	23	25	33	35	39	42	60	74	54
90.0	4	4	5	7	11	13	12	10	4	5
92.5	2	3	4	6	10	12	11	9	3	4
95.0	2	2	4	6	9	10	10	7	3	4
97.5	1	1	3	5	7	8	7	5	2	4
100.0	1	1	3	5	6	6	5	4	2	3
102.5	1	1	2	4	5	4	4	3	2	3
105.0	1	1	2	3	4	3	3	3	2	3
107.5	1	1	2	3	4	3	3	2	2	3
110.0	1	1	2	3	3	3	3	3	2	3
112.5	1	1	2	3	4	3	3	3	3	4
115.0	1	2	2	3	4	4	4	3	3	4
117.5	2	2	2	3	4	4	4	3	3	4
120.0	2	2	3	3	4	4	4	4	4	4
122.5	2	3	3	4	4	4	4	4	4	5
125.0	3	3	4	4	4	4	4	5	5	5
127.5	3	4	4	4	4	4	4	5	5	6
130.0	3	4	4	5	5	4	5	5	6	6
132.5	3	4	4	4	5	5	4	5	6	7
135.0	2	3	3	4	4	4	4	5	5	6
137.5	1	1	2	2	2	3	3	3	4	4
140.0	0	0	0	1	1	1	2	2	2	3
142.5	0	0	0	0	1	1	2	2	2	2
145.0	0	0	0	0	1	1	2	2	2	2
147.5	0	0	0	0	1	1	2	2	2	2
150.0	0	0	0	0	1	1	2	2	2	2
152.5	0	0	0	0	1	1	2	2	2	2
155.0	0	0	0	0	1	1	2	2	2	2
157.5	0	0	0	0	1	1	2	2	2	2
160.0	0	0	0	0	1	1	2	2	2	2
162.5	0	0	0	0	1	1	1	2	2	1
165.0	0	0	0	0	1	1	1	2	1	1
167.5	0	0	0	0	1	1	1	2	1	1
170.0	0	0	0	0	0	1	1	2	1	1
172.5	0	0	0	0	0	1	1	1	1	1
175.0	0	0	0	0	0	1	1	1	1	1
177.5	0	0	0	0	0	1	1	1	1	1
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	871	871
2.5	870	864
5.0	802	800
7.5	766	783
10.0	730	739
12.5	761	784
15.0	779	805
17.5	822	830
20.0	904	886
22.5	973	997
25.0	1103	1114

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CANDELA TABULATION - (Cont.)

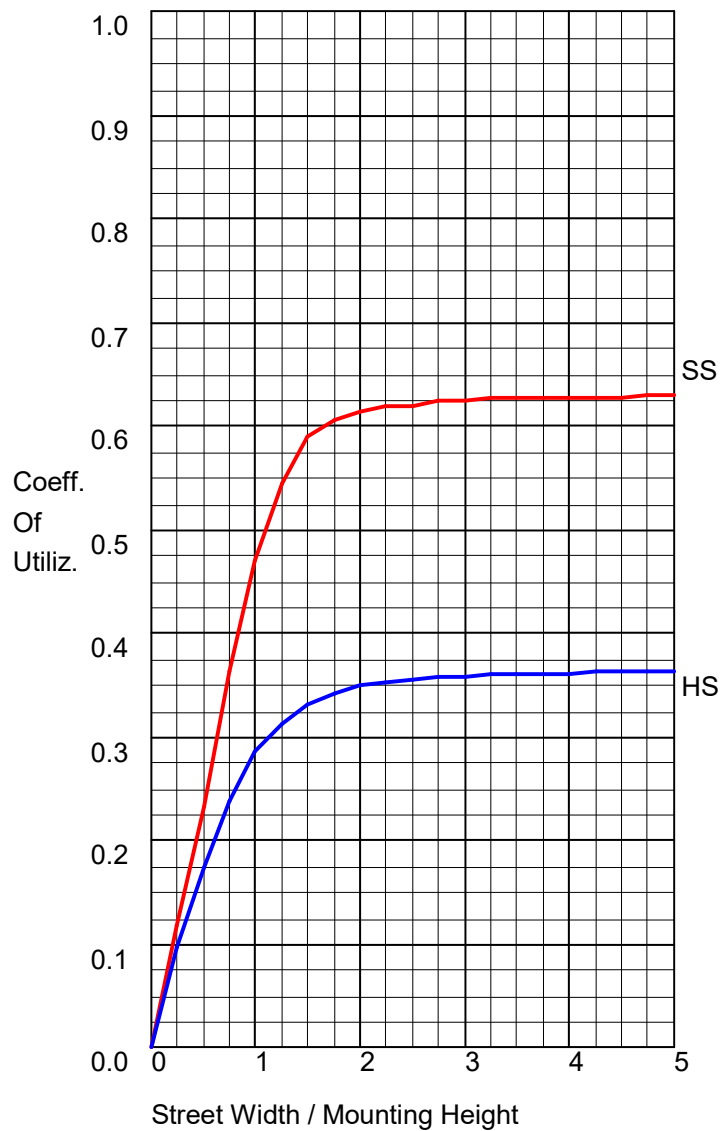
27.5	1263	1283
30.0	1437	1467
32.5	1698	1699
35.0	1897	1897
37.5	2111	2107
40.0	2157	2147
42.5	2109	2095
45.0	1946	1946
47.5	1729	1701
50.0	1471	1463
52.5	1247	1243
55.0	1080	1071
57.5	972	965
60.0	856	844
62.5	714	700
65.0	551	535
67.5	405	387
70.0	310	300
72.5	223	219
75.0	174	173
77.5	148	149
80.0	155	159
82.5	196	199
85.0	154	161
87.5	47	38
90.0	4	4
92.5	4	3
95.0	4	3
97.5	3	3
100.0	3	3
102.5	3	3
105.0	3	3
107.5	3	3
110.0	3	3
112.5	3	4
115.0	4	4
117.5	4	4
120.0	4	4
122.5	5	5
125.0	5	5
127.5	5	5
130.0	6	6
132.5	6	6
135.0	6	6
137.5	4	4
140.0	3	3
142.5	2	2
145.0	2	2
147.5	2	2
150.0	2	2
152.5	2	2
155.0	2	2
157.5	2	2
160.0	1	1
162.5	1	1
165.0	1	1

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CANDELA TABULATION - (Cont.)

167.5	1	1
170.0	1	1
172.5	1	1
175.0	1	1
177.5	1	1
180.0	0	0

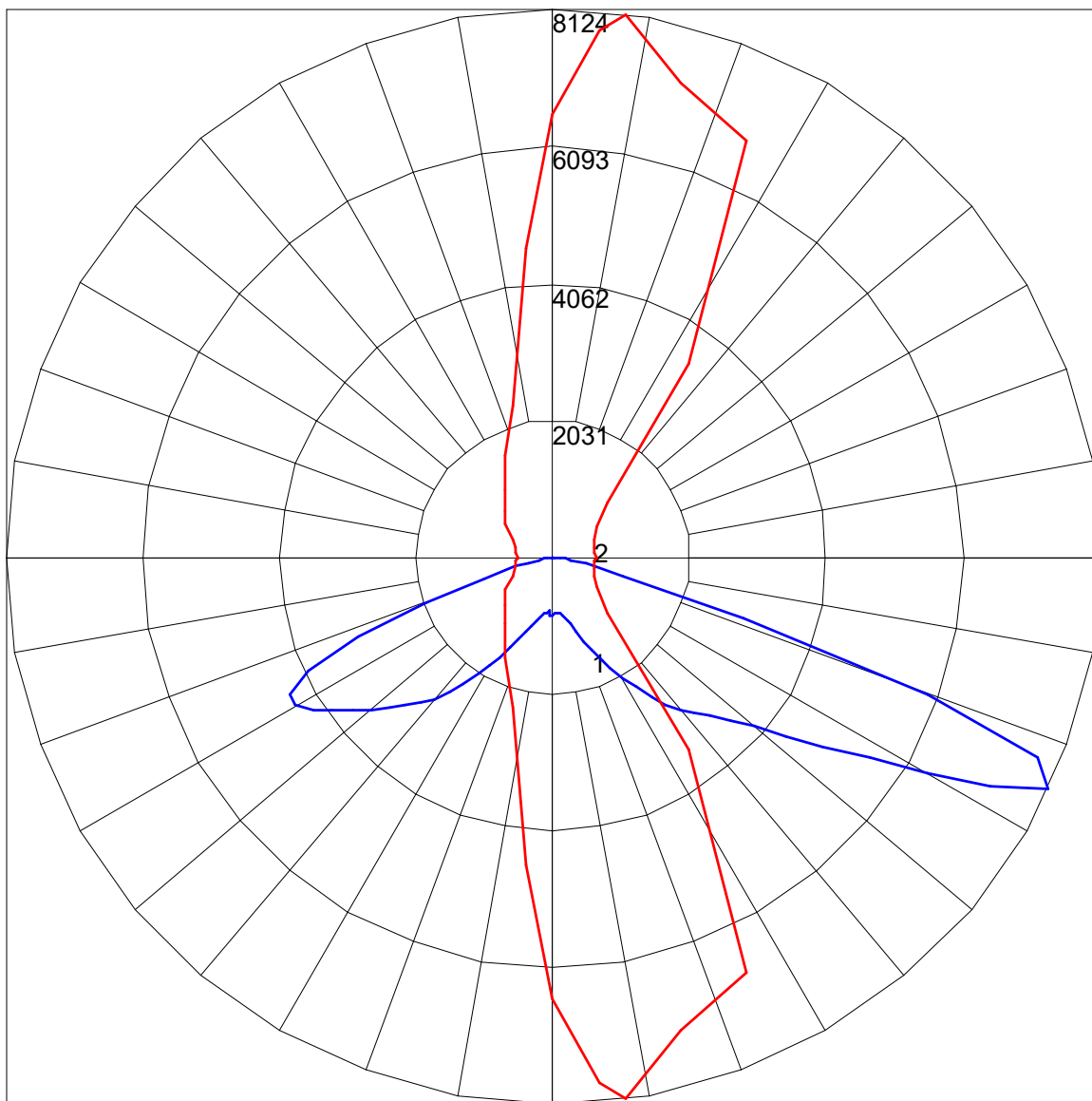
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

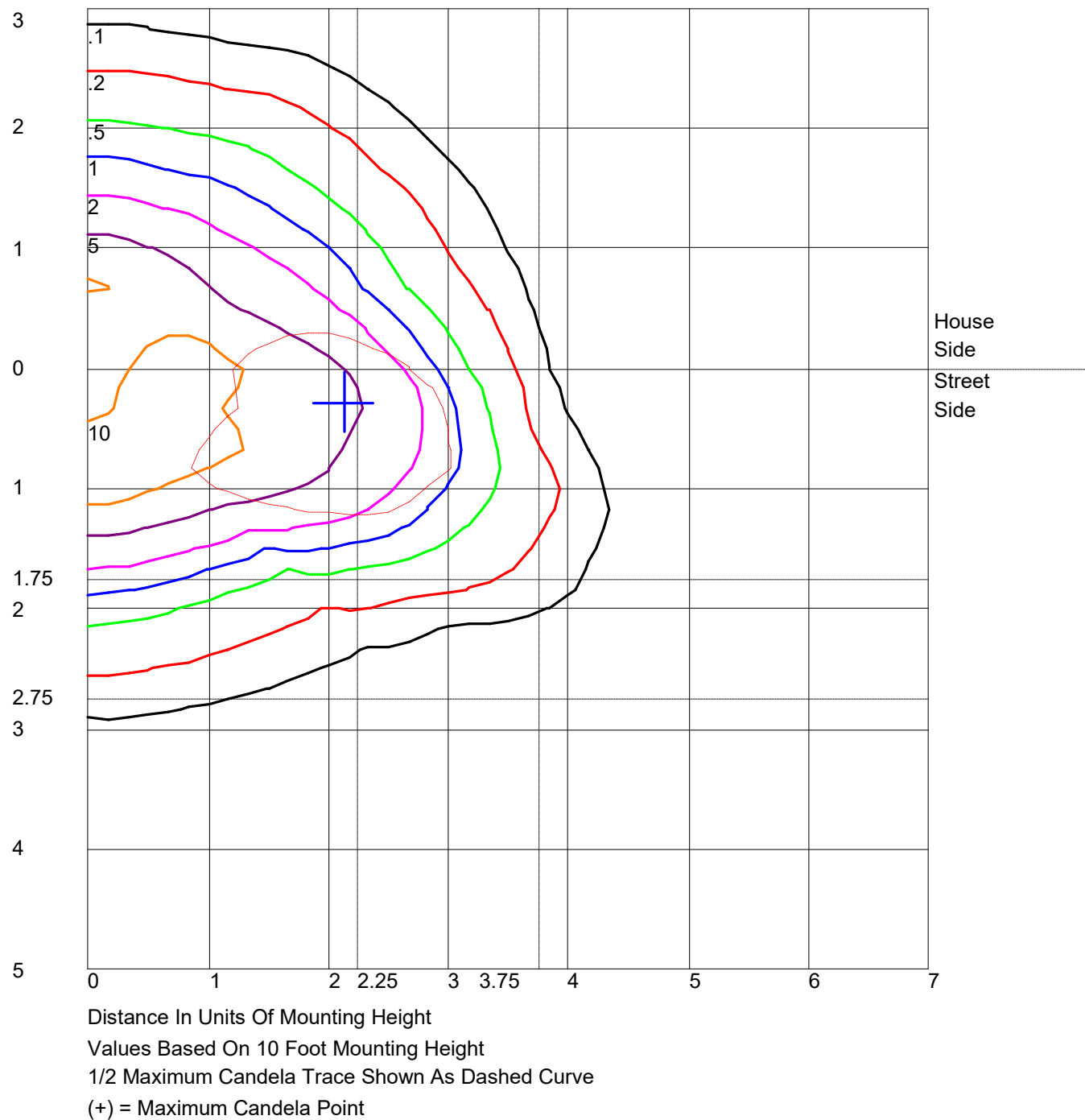
	Lumens	Percent Of Luminaire
Downward Street Side	6344.7	63.1
Downward House Side	3693.9	36.7
Downward Total	10038.6	99.8
Upward Street Side	4.8	0.0
Upward House Side	11.0	0.1
Upward Total	15.8	0.2
Total Flux	10054.4	100.0

POLAR GRAPH

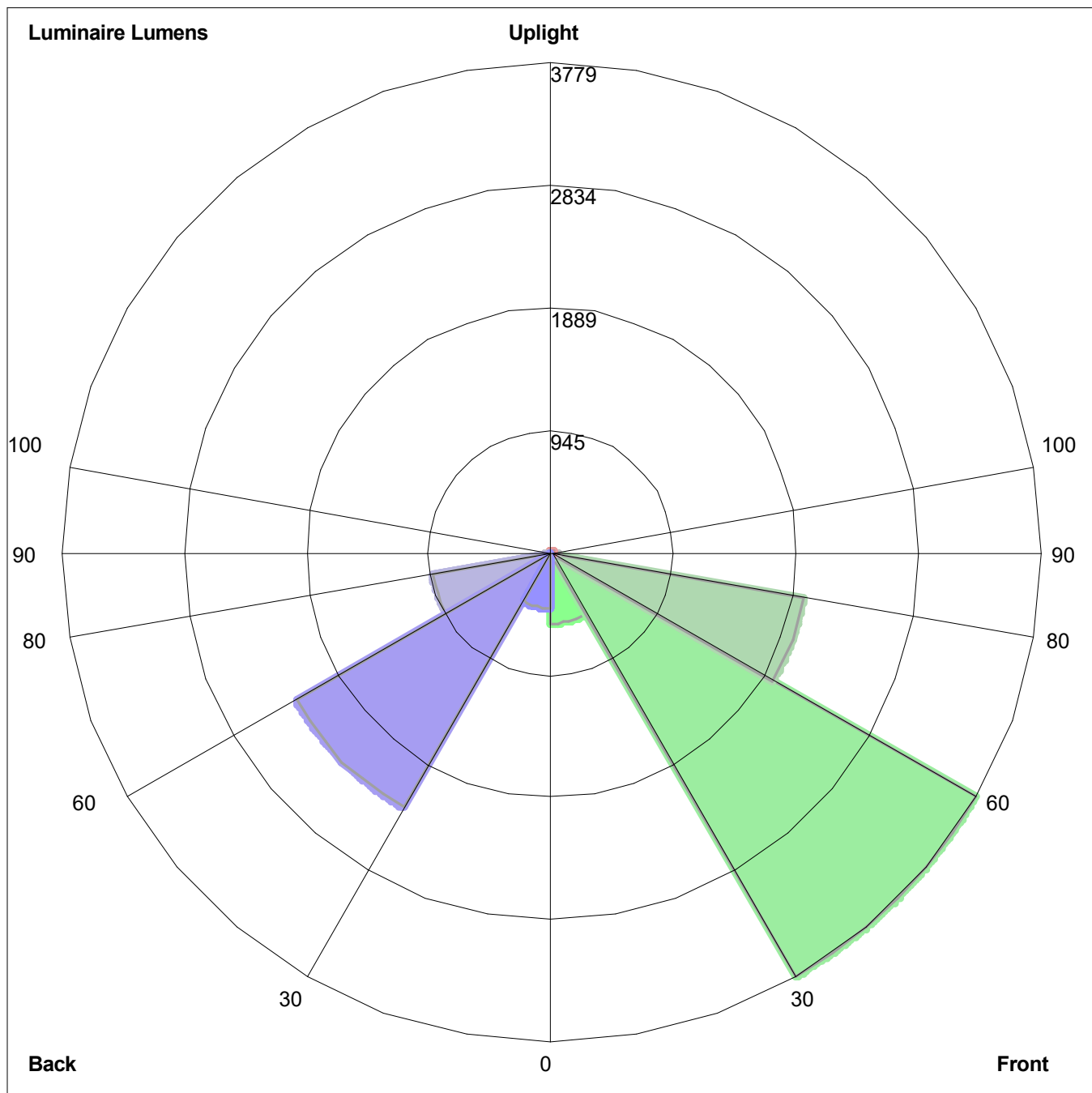


Maximum Candela = 8124 Located At Horizontal Angle = 82.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=545.0, Medium=3778.7, High= 1977.0, Very High=44.1
Back: Low=430.0, Medium= 2276.0, High=930.9, Very High=57.1
Uplight: Low=4.2, High=11.6

BUG Rating : B2-U2-G2