



IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-18L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11682
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/03/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-FT-LED-18L-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	19244
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	13147
Maximum Candela Angle	40H 70V
Maximum Candela (<90 Degrees Vertical)	13147
Maximum Candela Angle (<90 Degrees Vertical)	40H 70V
Maximum Candela At 90 Degrees Vertical	173 (0.9% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3132 (16.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	898.1	N.A.	4.7
FM - Front-Medium (30-60)	6265.4	N.A.	32.6
FH - Front-High (60-80)	6909.6	N.A.	35.9
FVH - Front-Very High (80-90)	348.9	N.A.	1.8
BL - Back-Low (0-30)	805.3	N.A.	4.2
BM - Back-Medium (30-60)	2756.9	N.A.	14.3
BH - Back-High (60-80)	1121.4	N.A.	5.8
BVH - Back-Very High (80-90)	92.8	N.A.	0.5
UL - Uplight-Low (90-100)	14.5	N.A.	0.1
UH - Uplight-High (100-180)	31.1	N.A.	0.2
Total	19244.0	N.A.	100.0
BUG Rating	B3-U2-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>40</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>
0.0	1518	1518	1518	1518	1518	1518	1518	1518	1518	1518
2.5	1519	1516	1498	1490	1499	1500	1506	1529	1537	1527
5.0	1385	1420	1443	1461	1497	1493	1442	1423	1408	1410
7.5	1350	1380	1442	1371	1382	1358	1371	1387	1501	1481
10.0	1343	1360	1388	1318	1374	1413	1458	1495	1505	1523
12.5	1361	1457	1421	1378	1460	1455	1496	1542	1582	1624
15.0	1440	1544	1519	1560	1623	1568	1579	1678	1720	1779
17.5	1573	1660	1604	1669	1726	1777	1793	1785	1879	1992
20.0	1866	1909	1895	1849	1905	1909	1953	2029	2054	2156
22.5	2138	2112	2157	2184	2179	2121	2197	2305	2281	2400
25.0	2425	2350	2420	2426	2435	2526	2488	2609	2578	2546
27.5	2729	2850	2841	2706	2692	2836	2878	2855	2829	2811
30.0	3109	3048	3010	3041	3035	3028	3137	3123	3096	3057
32.5	3613	3656	3379	3261	3384	3426	3345	3441	3367	3265
35.0	4043	3963	3823	3666	3606	3674	3720	3729	3576	3459
37.5	4523	4456	4227	3967	4040	3962	4003	3982	3805	3621
40.0	4813	4805	4648	4506	4332	4347	4387	4263	4051	3828
42.5	5120	5114	4986	4963	4798	4691	4704	4633	4325	3993
45.0	5479	5497	5384	5263	5172	5158	5119	5019	4637	4260
47.5	5889	5916	5804	5675	5549	5572	5507	5473	5109	4655
50.0	6393	6368	6266	6165	6031	6070	6065	6133	5773	5092
52.5	6852	6840	6800	6714	6627	6664	6771	7023	6490	5598
55.0	7314	7310	7360	7306	7324	7405	7661	7949	7295	6198
57.5	7808	7849	7939	7956	8134	8331	8715	8955	8163	6721
60.0	8400	8468	8657	8753	9285	9438	9876	10028	8903	7011
62.5	8996	9079	9392	9752	10593	10682	11148	10944	9321	6927
65.0	9442	9540	10069	10734	11990	12052	12296	11457	9180	6343
67.5	9060	9088	10031	11259	13016	13115	12865	11288	8294	5019
70.0	7382	7581	8792	10767	12980	13147	12583	10143	6543	3177
72.5	5093	5332	6622	8831	11541	11866	11118	7917	4166	1845
75.0	2473	2681	3783	5930	8686	9102	8371	5126	2405	1236
77.5	1203	1289	1984	3180	5120	5782	5358	3104	1583	841
80.0	692	742	1358	2011	2590	3132	3020	1933	1028	550
82.5	509	541	959	1340	1523	1668	1678	1061	647	341
85.0	392	412	734	959	1104	982	747	509	334	194
87.5	262	290	529	521	634	439	191	200	119	86
90.0	64	96	173	97	82	46	31	14	9	9
92.5	22	20	29	17	9	10	9	7	6	6
95.0	6	6	7	8	8	9	8	7	6	6
97.5	5	6	6	7	7	8	8	6	6	6
100.0	5	5	5	6	6	7	7	6	6	6
102.5	4	4	5	5	6	6	6	6	6	6
105.0	4	4	4	5	5	6	6	5	5	6
107.5	4	4	4	5	5	6	6	5	5	6
110.0	5	5	5	5	6	6	6	5	6	6
112.5	5	5	5	5	6	6	6	5	6	6
115.0	5	5	5	6	6	6	6	5	6	7
117.5	6	6	6	6	6	6	6	6	6	7
120.0	7	7	6	6	7	7	7	6	6	7
122.5	7	7	7	7	7	7	7	6	7	8
125.0	8	8	8	7	7	7	7	7	7	8
127.5	8	8	8	8	8	8	7	7	7	8
130.0	9	9	8	8	8	8	8	7	8	9

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CANDELA TABULATION - (Cont.)

132.5	9	9	9	8	8	8	8	7	8	9
135.0	8	8	7	7	7	8	7	7	7	8
137.5	4	4	4	5	6	6	6	5	6	7
140.0	1	1	3	3	4	4	4	4	4	5
142.5	1	1	3	3	4	4	4	4	4	5
145.0	1	1	2	3	4	4	4	4	4	4
147.5	1	1	2	3	4	4	4	3	4	4
150.0	1	1	2	3	3	3	3	3	4	4
152.5	1	1	2	3	3	3	3	3	3	4
155.0	1	1	2	3	3	3	3	3	3	4
157.5	1	1	2	3	3	3	3	3	3	4
160.0	1	1	2	3	3	3	3	3	3	3
162.5	1	1	2	3	3	3	3	3	3	3
165.0	1	1	2	3	3	3	3	3	3	3
167.5	1	1	2	3	3	3	3	3	3	3
170.0	1	1	2	3	3	3	3	3	3	3
172.5	1	1	2	3	3	3	3	3	3	3
175.0	1	1	2	3	3	3	3	3	3	3
177.5	1	1	2	3	3	3	3	3	3	3
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Angles **Horizontal Angles**

	85	90	95	105	115	125	135	145	155	165
0.0	1518	1518	1518	1518	1518	1518	1518	1518	1518	1518
2.5	1518	1520	1529	1522	1517	1530	1541	1538	1530	1489
5.0	1413	1400	1394	1435	1441	1452	1474	1474	1470	1430
7.5	1472	1473	1478	1530	1457	1389	1330	1369	1375	1394
10.0	1487	1507	1478	1507	1400	1419	1400	1403	1370	1419
12.5	1622	1601	1633	1565	1473	1454	1439	1553	1540	1611
15.0	1743	1762	1712	1611	1507	1561	1603	1686	1722	1678
17.5	1939	1880	1866	1740	1610	1706	1795	1790	1792	1783
20.0	2113	2118	2071	1811	1724	1858	1841	1899	1891	1890
22.5	2436	2314	2272	2015	1916	1991	1973	1972	1942	1998
25.0	2623	2609	2526	2123	2212	2129	2035	1994	2053	2083
27.5	2876	2737	2732	2297	2376	2213	2111	2118	2147	2195
30.0	3035	2922	2880	2455	2488	2367	2201	2180	2168	2231
32.5	3154	3081	2971	2611	2631	2476	2322	2247	2268	2347
35.0	3343	3197	3103	2773	2683	2554	2473	2293	2385	2431
37.5	3472	3367	3217	2851	2718	2608	2480	2410	2387	2532
40.0	3575	3410	3224	2903	2734	2604	2482	2401	2441	2568
42.5	3669	3472	3240	2838	2646	2579	2447	2412	2419	2456
45.0	3884	3595	3299	2791	2536	2487	2384	2342	2396	2284
47.5	4152	3772	3420	2754	2411	2377	2267	2271	2281	2104
50.0	4443	3946	3560	2731	2268	2250	2153	2215	2130	1965
52.5	4788	4202	3727	2716	2112	2112	2041	2128	1961	1831
55.0	5189	4495	3911	2721	1963	1982	1927	1994	1794	1687
57.5	5380	4661	3988	2671	1815	1857	1805	1844	1623	1494
60.0	5371	4643	3805	2568	1663	1720	1691	1689	1435	1364
62.5	5048	4251	3260	2380	1508	1567	1558	1537	1297	1260
65.0	4269	3413	2392	2043	1339	1405	1415	1422	1173	1175
67.5	3011	2314	1549	1572	1159	1236	1274	1297	1067	1092
70.0	1799	1375	997	1143	979	1052	1138	1155	966	1006
72.5	1025	804	696	832	784	876	991	1001	853	875
75.0	715	535	484	605	616	714	837	825	668	638
77.5	478	348	347	450	486	581	646	575	417	406

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CANDELA TABULATION - (Cont.)

80.0	272	209	257	341	388	445	411	367	301	315
82.5	182	140	184	256	296	267	268	269	206	229
85.0	107	75	108	172	165	163	174	151	104	149
87.5	42	23	49	76	79	78	67	62	43	60
90.0	6	7	18	24	25	22	17	10	4	2
92.5	4	7	16	22	25	22	17	10	3	3
95.0	4	8	16	21	23	20	16	12	4	4
97.5	5	9	13	18	20	18	15	12	6	5
100.0	5	8	10	14	16	16	14	10	6	6
102.5	6	8	9	10	13	14	12	10	7	6
105.0	6	7	8	9	10	12	10	9	7	6
107.5	6	7	8	9	9	9	9	8	6	6
110.0	7	8	8	9	9	9	9	8	7	6
112.5	7	8	8	9	9	9	9	8	7	6
115.0	7	8	9	9	9	9	9	9	7	7
117.5	8	8	9	9	9	10	10	9	8	7
120.0	8	9	9	9	10	10	10	10	9	7
122.5	9	9	9	10	10	10	12	10	9	8
125.0	9	9	10	10	10	10	12	10	9	8
127.5	9	10	10	10	10	10	10	10	9	8
130.0	10	10	10	10	10	10	10	9	9	8
132.5	10	10	10	10	10	9	9	9	8	7
135.0	9	9	9	9	9	8	7	7	6	6
137.5	7	7	8	7	7	6	5	4	3	2
140.0	5	6	6	6	5	4	3	2	1	1
142.5	5	5	5	5	4	3	3	2	1	0
145.0	5	5	5	5	4	3	2	1	0	0
147.5	5	5	5	4	4	3	2	1	0	0
150.0	4	5	5	4	4	3	2	1	0	0
152.5	4	4	4	4	3	2	2	1	0	0
155.0	4	4	4	4	3	2	1	1	0	0
157.5	4	4	4	4	3	2	1	0	0	0
160.0	4	4	4	4	3	2	1	0	0	0
162.5	4	4	4	3	3	2	1	0	0	0
165.0	4	4	4	3	3	2	1	0	0	0
167.5	4	4	4	3	3	2	1	0	0	0
170.0	4	4	4	3	3	2	1	0	0	0
172.5	4	4	4	3	3	2	1	0	0	0
175.0	4	4	4	3	3	2	1	0	0	0
177.5	4	4	4	3	3	2	1	0	0	0
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Horizontal Angles
Angles

	175	180
0.0	1518	1518
2.5	1490	1493
5.0	1419	1444
7.5	1409	1438
10.0	1459	1491
12.5	1635	1679
15.0	1768	1841
17.5	1864	1926
20.0	1970	2013
22.5	1990	2137
25.0	2112	2220

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CANDELA TABULATION - (Cont.)

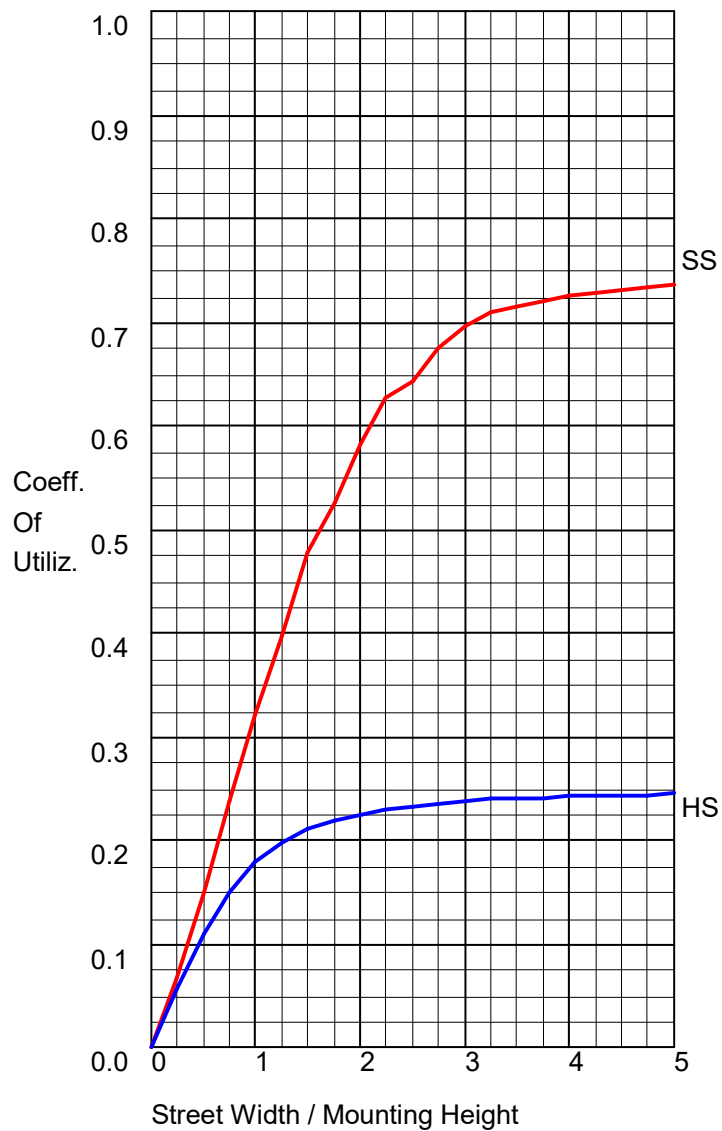
27.5	2186	2366
30.0	2256	2431
32.5	2405	2546
35.0	2447	2618
37.5	2563	2739
40.0	2513	2666
42.5	2331	2464
45.0	2175	2298
47.5	2037	2155
50.0	1909	1999
52.5	1778	1851
55.0	1624	1688
57.5	1460	1509
60.0	1352	1388
62.5	1270	1300
65.0	1210	1237
67.5	1159	1187
70.0	1106	1130
72.5	1006	1025
75.0	760	780
77.5	589	629
80.0	484	536
82.5	374	414
85.0	251	284
87.5	121	155
90.0	0	0
92.5	0	0
95.0	2	2
97.5	3	3
100.0	4	4
102.5	5	5
105.0	5	5
107.5	5	5
110.0	5	5
112.5	5	5
115.0	5	5
117.5	5	5
120.0	6	6
122.5	6	6
125.0	6	6
127.5	6	6
130.0	6	6
132.5	6	6
135.0	4	4
137.5	1	1
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	2	2

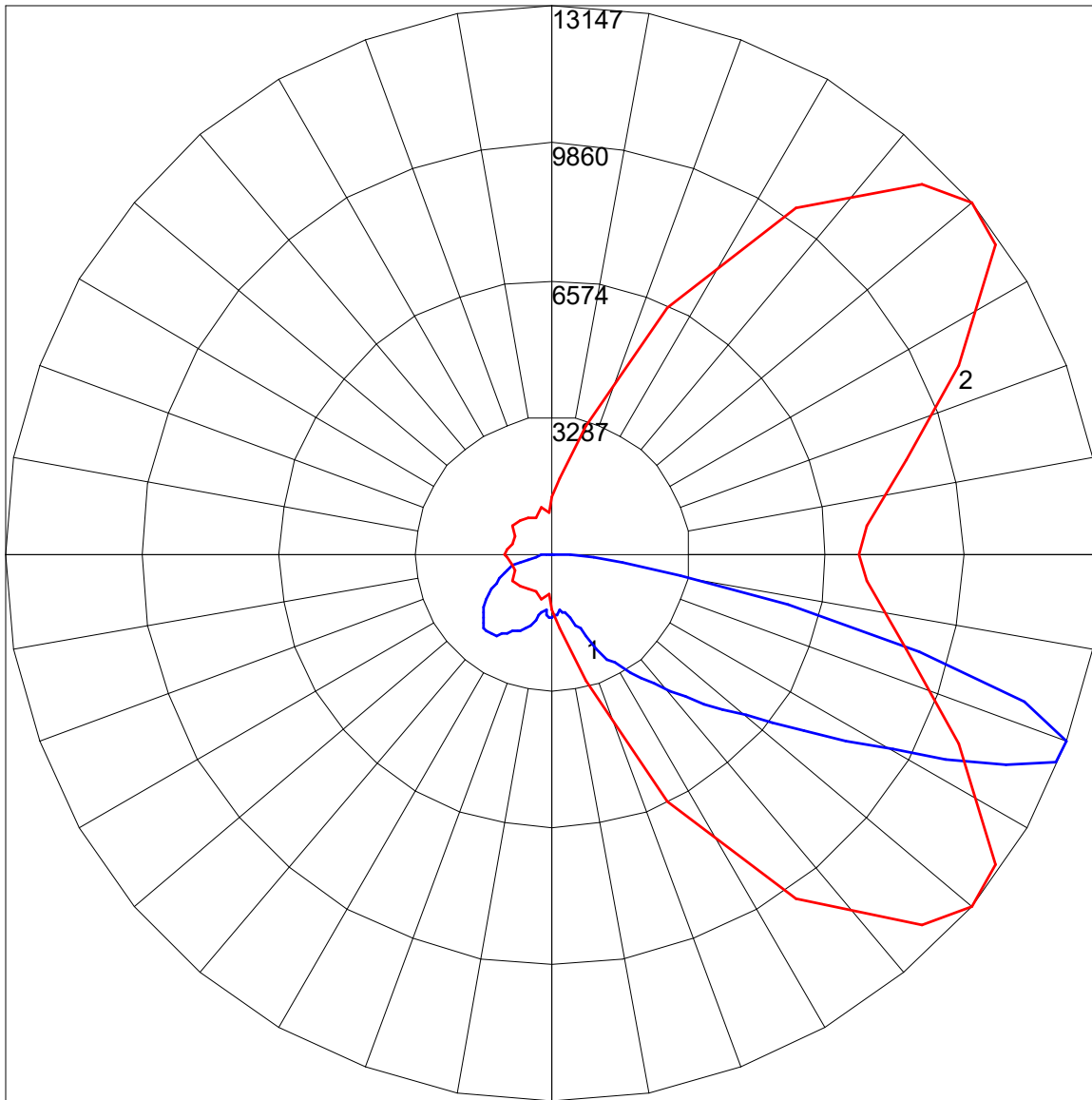
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

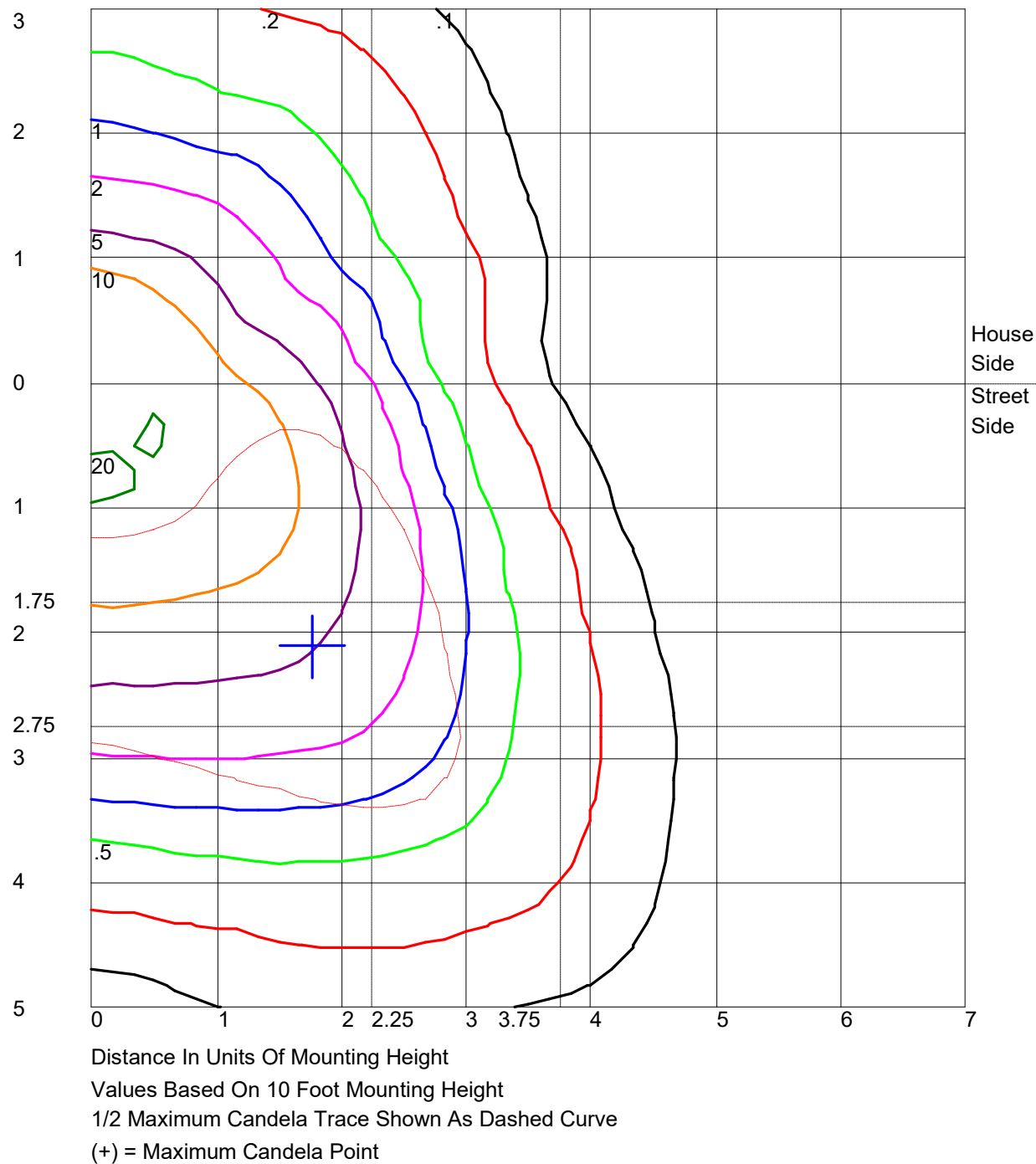
	Lumens	Percent Of Luminaire
Downward Street Side	14422.1	74.9
Downward House Side	4776.3	24.8
Downward Total	19198.4	99.8
Upward Street Side	21.9	0.1
Upward House Side	23.6	0.1
Upward Total	45.5	0.2
Total Flux	19243.9	100.0

POLAR GRAPH

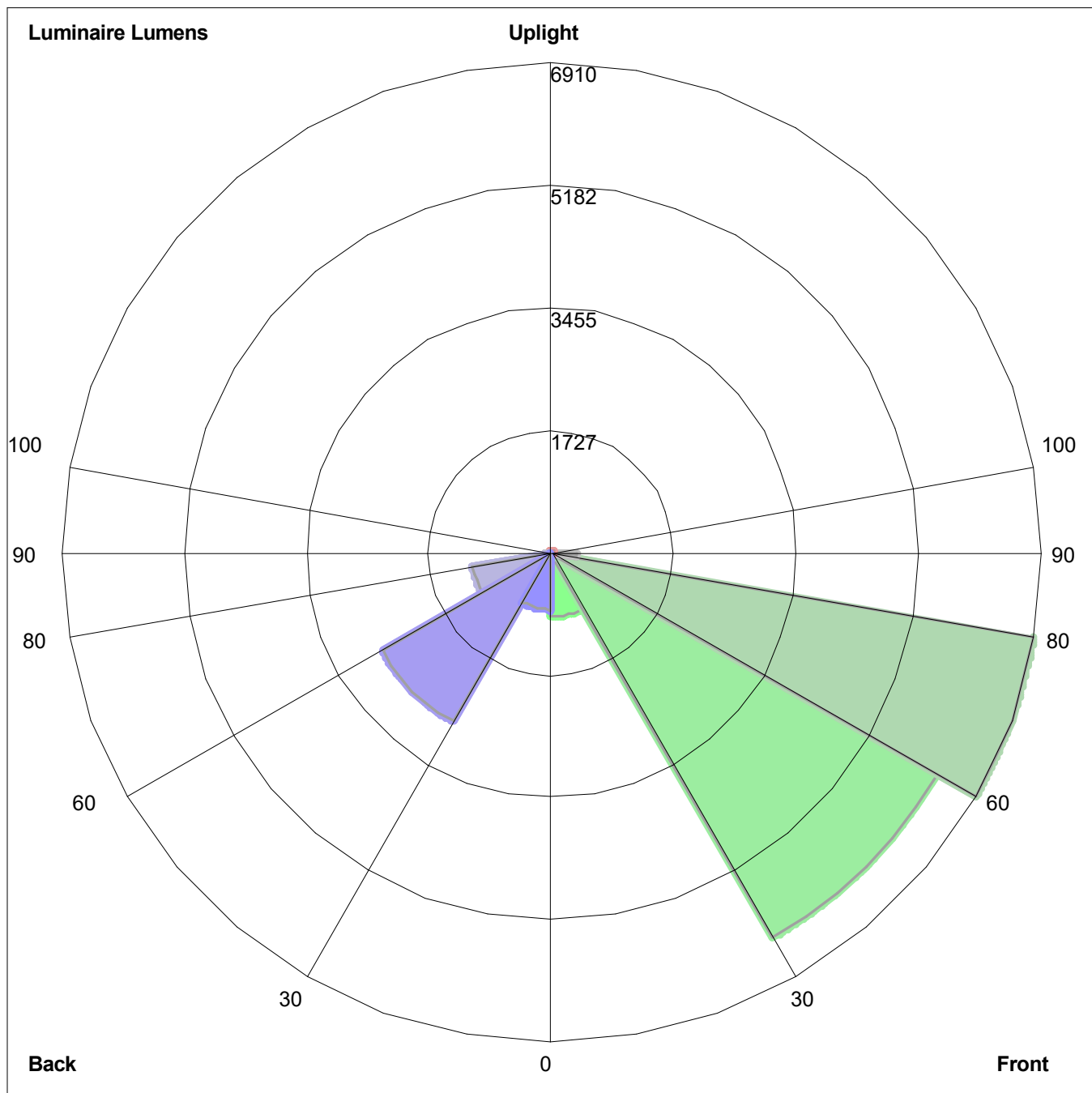


Maximum Candela = 13147 Located At Horizontal Angle = 40, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=898.1, Medium=6265.4, High=6909.6, Very High=348.9
Back: Low=805.3, Medium=2756.9, High=1121.4, Very High=92.8
Uplight: Low=14.5, High=31.1

BUG Rating : B3-U2-G3