



IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-FT-LED-18L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13248
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/07/22
[TEST DATE] 02/09/22
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] XCN4-PT-FT-LED-18L-30
[OTHER] TEST PROCEDURE: IESNA LM-79-19
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLORTEMP] 3000

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18792
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	149.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	13052
Maximum Candela Angle	40H 70V
Maximum Candela (<90 Degrees Vertical)	13052
Maximum Candela Angle (<90 Degrees Vertical)	40H 70V
Maximum Candela At 90 Degrees Vertical	84 (0.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3008 (16.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	892.0	N.A.	4.7
FM - Front-Medium (30-60)	5996.7	N.A.	31.9
FH - Front-High (60-80)	6803.5	N.A.	36.2
FVH - Front-Very High (80-90)	310.8	N.A.	1.7
BL - Back-Low (0-30)	833.8	N.A.	4.4
BM - Back-Medium (30-60)	2652.3	N.A.	14.1
BH - Back-High (60-80)	1172.5	N.A.	6.2
BVH - Back-Very High (80-90)	96.0	N.A.	0.5
UL - Uplight-Low (90-100)	10.3	N.A.	0.1
UH - Uplight-High (100-180)	24.4	N.A.	0.1
Total	18792.3	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	1519	1519	1519	1519	1519	1519	1519	1519	1519	1519
2.5	1504	1505	1511	1506	1500	1488	1480	1489	1486	1483
5.0	1389	1372	1373	1377	1423	1439	1484	1498	1499	1480
7.5	1289	1256	1265	1279	1305	1315	1324	1379	1522	1498
10.0	1299	1277	1300	1312	1322	1313	1334	1366	1445	1629
12.5	1338	1335	1345	1338	1361	1388	1431	1419	1484	1656
15.0	1466	1451	1476	1455	1438	1463	1483	1576	1581	1777
17.5	1686	1628	1646	1599	1629	1616	1628	1704	1796	1905
20.0	2072	2040	1915	1802	1849	1859	1863	1884	1979	2082
22.5	2390	2356	2298	2227	2097	2104	2117	2124	2178	2249
25.0	2824	2843	2694	2583	2487	2490	2380	2387	2401	2460
27.5	3139	3136	3127	3041	2829	2801	2772	2629	2610	2654
30.0	3540	3559	3478	3352	3275	3190	3096	2908	2793	2788
32.5	3766	3788	3825	3789	3601	3540	3467	3167	2981	2899
35.0	3984	4013	4063	4057	3952	3872	3796	3504	3134	2944
37.5	4218	4261	4304	4307	4231	4186	4071	3740	3312	3038
40.0	4517	4535	4575	4580	4539	4463	4367	4042	3513	3156
42.5	4830	4850	4890	4917	4873	4795	4673	4409	3746	3317
45.0	5198	5240	5265	5318	5267	5198	5061	4797	4072	3565
47.5	5615	5668	5728	5802	5769	5669	5527	5260	4479	3878
50.0	6055	6117	6207	6379	6336	6246	6077	5865	5046	4271
52.5	6484	6567	6677	6981	6985	6903	6747	6614	5627	4767
55.0	6805	6907	7113	7565	7672	7655	7575	7543	6417	5350
57.5	7105	7255	7496	8081	8462	8586	8603	8607	7246	5974
60.0	7533	7727	8044	8701	9341	9668	9761	9741	8034	6415
62.5	7972	8213	8604	9468	10425	10909	10984	10743	8622	6653
65.0	8281	8463	9051	10242	11545	12163	12127	11346	8741	6349
67.5	8011	8149	8994	10728	12388	12972	12875	11208	8087	5362
70.0	7050	7187	8197	10502	12696	13052	12766	10189	6515	3791
72.5	5060	5182	6369	8858	12077	12345	11784	8099	4237	2093
75.0	2451	2598	3772	6062	9320	9893	9157	5282	2385	1302
77.5	1148	1235	1902	3203	5493	6186	5757	3037	1524	857
80.0	611	671	1231	1937	2549	3008	2985	1861	927	521
82.5	412	455	835	1241	1464	1621	1647	941	565	287
85.0	301	338	609	834	993	864	650	390	273	166
87.5	195	217	398	387	483	318	121	131	90	73
90.0	47	67	84	48	30	22	18	16	16	16
92.5	3	3	4	6	10	12	14	16	17	16
95.0	3	2	4	6	11	13	15	16	17	16
97.5	3	2	4	6	10	12	14	15	17	16
100.0	2	2	4	5	7	8	9	11	14	14
102.5	2	2	3	5	5	6	6	8	10	11
105.0	2	2	3	5	5	5	5	6	7	8
107.5	2	2	3	4	5	5	5	5	5	6
110.0	2	2	3	4	5	5	5	5	5	5
112.5	2	2	3	4	5	5	5	5	5	5
115.0	2	2	3	4	5	5	5	5	5	5
117.5	2	2	3	4	5	5	5	5	5	5
120.0	2	2	3	5	5	5	5	5	5	5
122.5	3	3	4	5	5	5	5	5	5	5
125.0	3	3	4	5	5	5	5	5	5	5
127.5	4	4	4	5	5	5	5	5	5	6
130.0	4	4	4	5	5	5	5	5	6	6

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CANDELA TABULATION - (Cont.)

132.5	5	5	5	5	5	5	5	6	6	6
135.0	5	5	5	5	5	6	6	6	6	6
137.5	6	5	5	5	6	6	6	6	6	6
140.0	6	6	6	6	6	6	6	6	6	6
142.5	6	5	5	5	6	5	6	5	6	6
145.0	3	3	4	5	5	5	5	5	5	5
147.5	1	1	2	3	4	4	4	3	3	4
150.0	1	1	2	3	4	4	3	3	3	4
152.5	1	1	2	3	4	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	4
170.0	1	1	2	3	3	3	3	3	3	4
172.5	1	1	2	3	3	3	3	3	3	4
175.0	1	1	2	3	3	3	3	3	3	4
177.5	1	1	2	3	3	3	3	3	3	4
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Angles	Horizontal Angles									
	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	1519	1519	1519	1519	1519	1519	1519	1519	1519	1519
2.5	1493	1495	1484	1491	1510	1511	1513	1531	1545	1564
5.0	1463	1450	1466	1492	1527	1557	1593	1541	1494	1498
7.5	1479	1474	1485	1507	1589	1487	1431	1422	1419	1416
10.0	1534	1500	1534	1647	1557	1484	1452	1484	1483	1487
12.5	1668	1621	1664	1738	1600	1543	1560	1558	1556	1598
15.0	1778	1750	1784	1837	1663	1679	1637	1638	1665	1698
17.5	1949	1901	1919	1952	1804	1776	1735	1773	1795	1815
20.0	2168	2110	2123	2066	1940	1881	1871	1875	1876	1940
22.5	2351	2319	2347	2189	2051	1981	1981	1972	2051	2113
25.0	2561	2493	2537	2315	2141	2094	2052	2124	2169	2259
27.5	2752	2642	2670	2385	2230	2156	2160	2221	2342	2426
30.0	2843	2749	2780	2471	2261	2234	2265	2367	2437	2547
32.5	2867	2745	2782	2445	2297	2263	2361	2417	2573	2685
35.0	2879	2737	2764	2412	2273	2315	2406	2496	2617	2726
37.5	2909	2738	2749	2357	2224	2311	2393	2476	2626	2759
40.0	2967	2760	2747	2319	2163	2277	2355	2445	2628	2810
42.5	3062	2808	2760	2251	2087	2233	2303	2404	2654	2857
45.0	3207	2899	2803	2209	2019	2167	2218	2349	2727	2707
47.5	3437	3055	2910	2186	1923	2077	2131	2286	2764	2470
50.0	3749	3268	3044	2181	1825	1994	2028	2248	2613	2270
52.5	4147	3545	3204	2190	1718	1894	1929	2225	2406	2101
55.0	4579	3814	3370	2205	1629	1795	1837	2143	2207	1947
57.5	4947	4041	3496	2197	1527	1692	1731	2010	2008	1766
60.0	5142	4149	3460	2164	1431	1591	1615	1866	1762	1605
62.5	5064	4010	3119	2072	1308	1465	1508	1683	1571	1495
65.0	4537	3445	2428	1838	1187	1339	1384	1551	1414	1406
67.5	3527	2571	1642	1489	1053	1197	1264	1447	1275	1328
70.0	2212	1576	1030	1091	895	1034	1151	1321	1148	1252
72.5	1124	838	698	790	743	878	1023	1157	1023	1154
75.0	750	530	477	574	573	707	871	973	865	969
77.5	475	323	306	393	432	552	702	713	563	595

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CANDELA TABULATION - (Cont.)

80.0	259	187	213	284	335	429	466	384	336	400
82.5	165	123	148	207	252	245	252	284	228	284
85.0	101	65	88	135	130	135	159	164	115	180
87.5	43	18	37	49	53	60	64	63	47	76
90.0	11	5	6	7	6	6	5	5	5	6
92.5	11	5	7	7	7	6	5	4	2	0
95.0	12	5	8	8	8	7	6	5	3	1
97.5	12	6	10	10	9	9	8	6	4	2
100.0	11	6	9	9	10	9	8	7	5	3
102.5	10	6	8	9	9	9	8	7	5	4
105.0	8	6	7	8	8	8	8	6	5	4
107.5	7	5	7	7	8	7	7	5	5	4
110.0	6	5	6	7	7	7	6	5	5	3
112.5	5	5	6	7	7	7	6	5	5	3
115.0	5	5	6	7	7	7	6	5	5	4
117.5	5	6	6	7	7	7	6	6	5	4
120.0	5	6	6	7	7	7	7	6	5	4
122.5	5	6	6	7	7	7	7	6	5	4
125.0	6	6	6	7	7	7	6	6	5	4
127.5	6	6	6	7	7	7	6	6	5	4
130.0	6	6	6	7	7	7	6	5	5	4
132.5	6	6	6	7	7	7	6	5	5	4
135.0	6	6	6	7	7	6	5	5	4	3
137.5	6	6	6	7	7	6	5	5	4	3
140.0	6	6	6	7	7	6	5	4	4	2
142.5	5	6	6	6	6	5	5	4	3	2
145.0	5	5	5	5	5	4	3	2	1	0
147.5	4	4	5	5	4	3	2	0	0	0
150.0	4	4	4	4	4	3	1	0	0	0
152.5	4	4	4	4	4	3	1	0	0	0
155.0	4	4	4	4	4	2	1	0	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	4	3	2	1	0	0	0
165.0	4	4	4	4	3	2	0	0	0	0
167.5	4	4	4	4	3	2	1	0	0	0
170.0	4	4	4	4	3	2	1	0	0	0
172.5	4	4	4	4	3	2	1	0	0	0
175.0	4	4	4	4	3	2	1	0	0	0
177.5	4	4	4	4	3	1	0	0	0	0
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Horizontal Angles
Angles

	175	180
0.0	1519	1519
2.5	1560	1556
5.0	1495	1507
7.5	1438	1421
10.0	1468	1493
12.5	1594	1596
15.0	1702	1709
17.5	1845	1880
20.0	2031	2050
22.5	2188	2204
25.0	2343	2375

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CANDELA TABULATION - (Cont.)

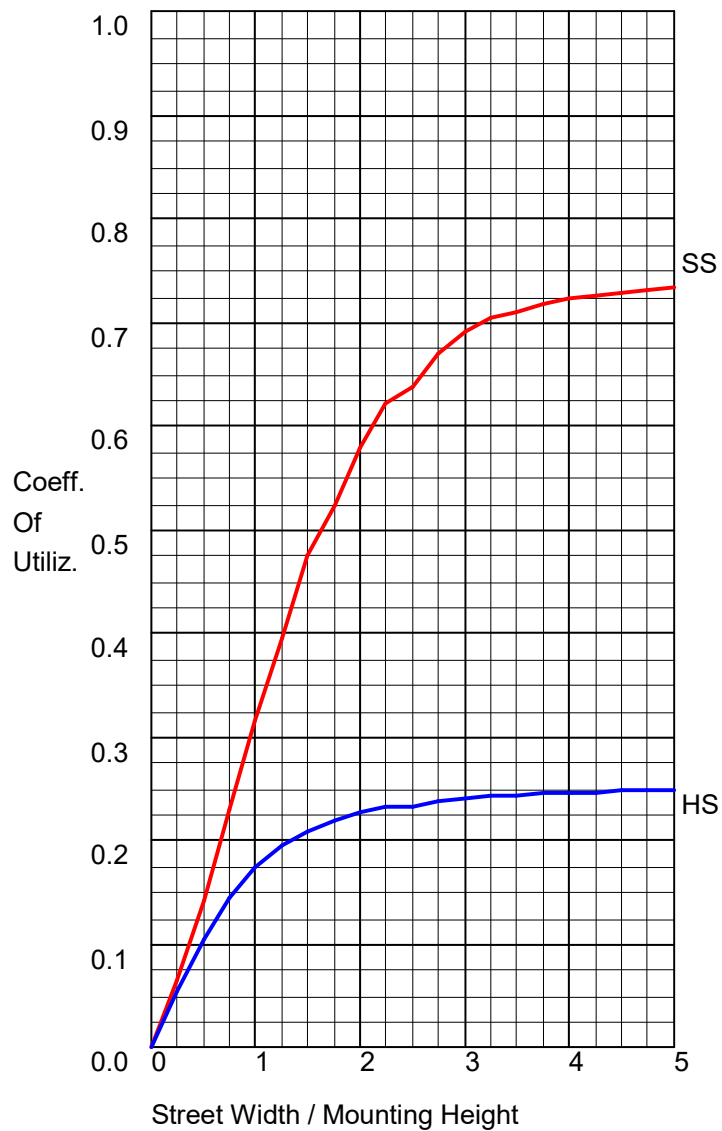
27.5	2486	2489
30.0	2641	2646
32.5	2705	2697
35.0	2727	2717
37.5	2756	2739
40.0	2777	2750
42.5	2622	2564
45.0	2374	2326
47.5	2201	2165
50.0	2062	2030
52.5	1926	1895
55.0	1790	1757
57.5	1609	1575
60.0	1474	1432
62.5	1377	1329
65.0	1317	1267
67.5	1283	1228
70.0	1258	1202
72.5	1216	1171
75.0	1066	1023
77.5	745	746
80.0	639	681
82.5	519	565
85.0	370	421
87.5	211	265
90.0	19	26
92.5	0	0
95.0	0	0
97.5	0	0
100.0	1	1
102.5	2	2
105.0	3	2
107.5	2	2
110.0	2	2
112.5	2	2
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	3	3
137.5	2	2
140.0	2	2
142.5	1	1
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	2	2

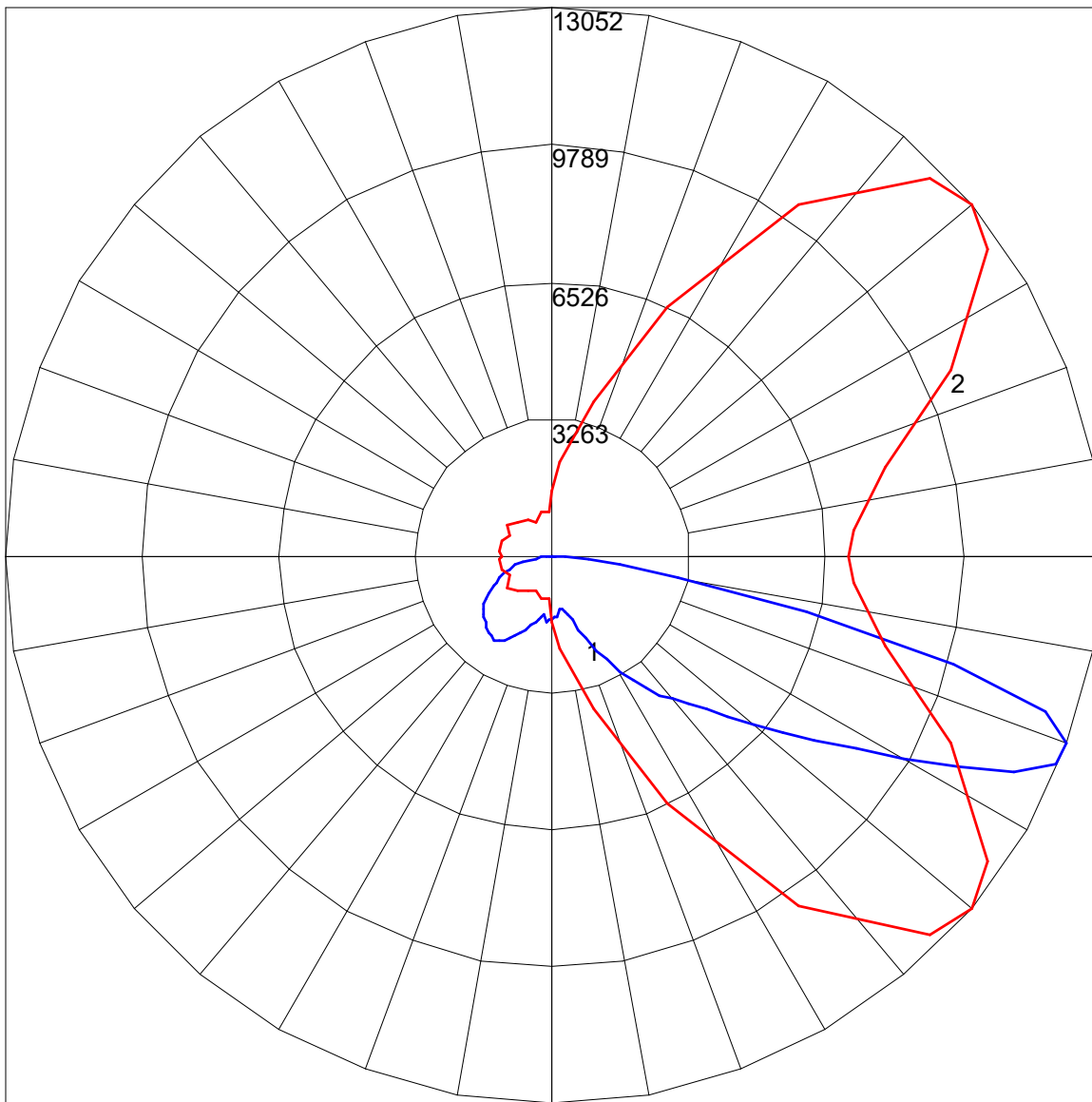
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

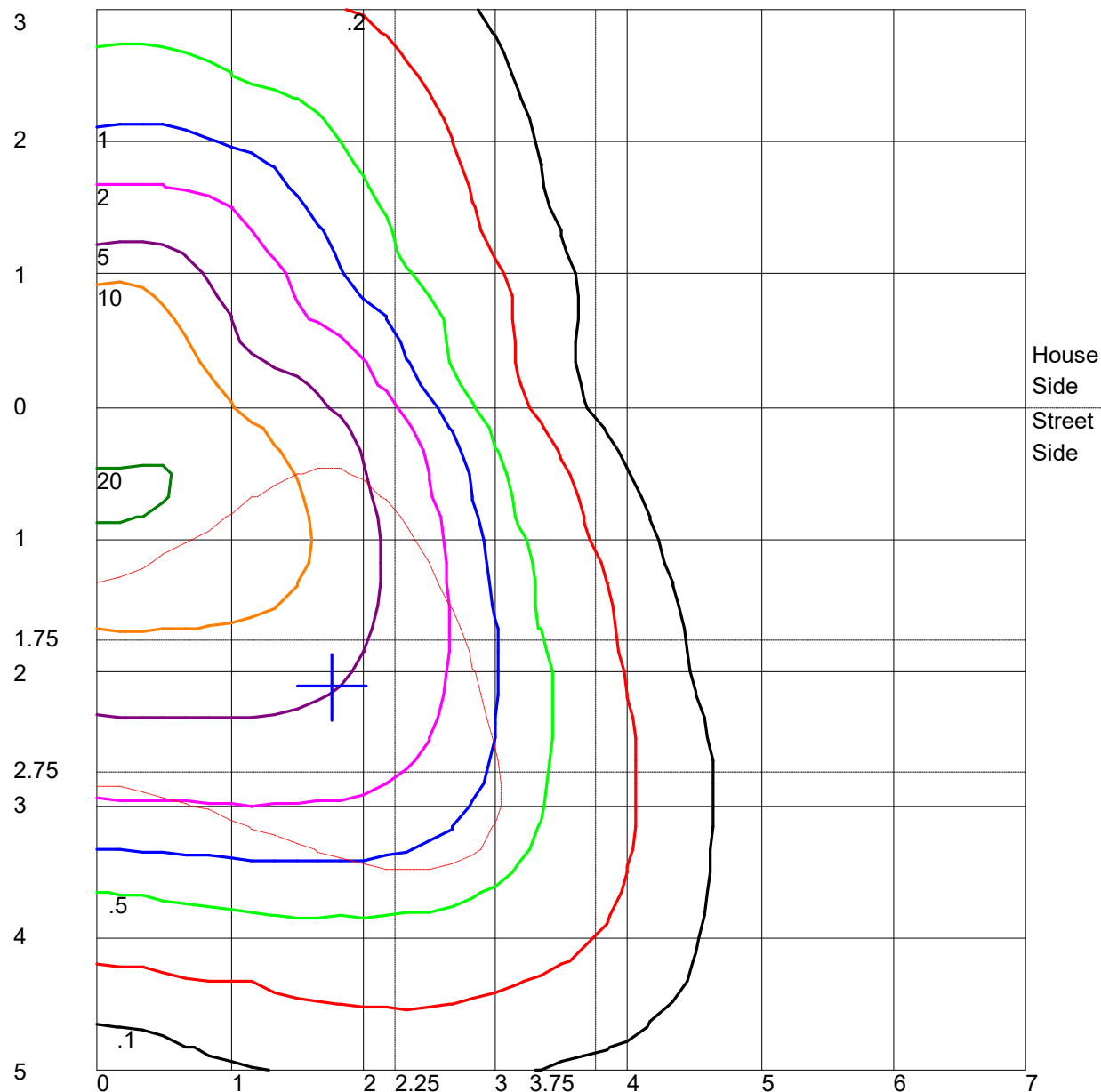
	Lumens	Percent Of Luminaire
Downward Street Side	14003.0	74.5
Downward House Side	4754.6	25.3
Downward Total	18757.6	99.8
Upward Street Side	19.4	0.1
Upward House Side	15.3	0.1
Upward Total	34.7	0.2
Total Flux	18792.3	100.0

POLAR GRAPH

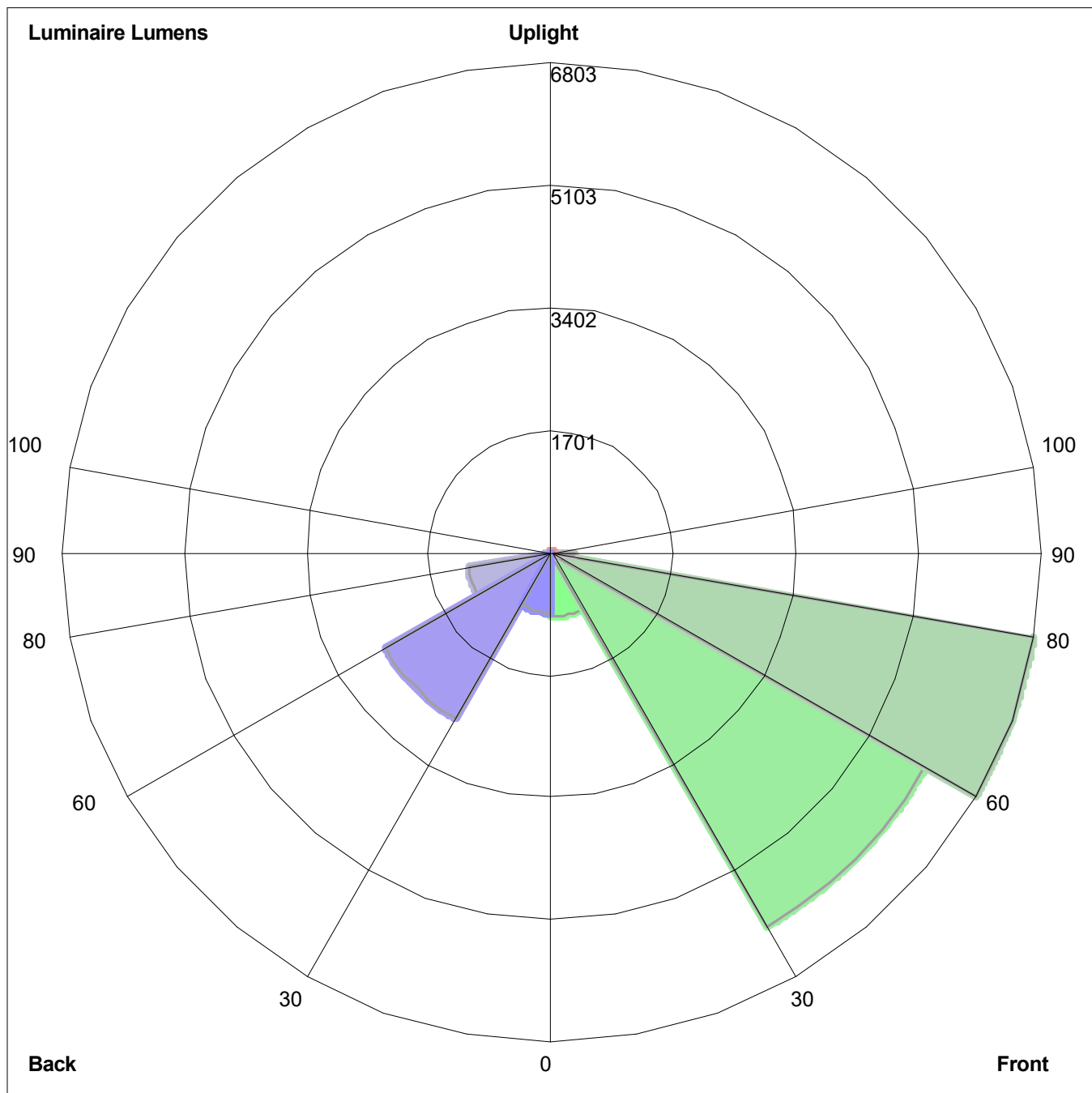


Maximum Candela = 13052 Located At Horizontal Angle = 40, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=892.0, Medium=5996.7, High=6803.5, Very High=310.8
Back: Low=833.8, Medium=2652.3, High=1172.5, Very High=96.0
Uplight: Low=10.3, High=24.4

BUG Rating : B3-U2-G3