



IES ROAD REPORT

PHOTOMETRIC FILENAME : XCN4-PT-FT-LED-18L-50.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-50
[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] 5000

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20546
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	149.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14270
Maximum Candela Angle	40H 70V
Maximum Candela (<90 Degrees Vertical)	14270
Maximum Candela Angle (<90 Degrees Vertical)	40H 70V
Maximum Candela At 90 Degrees Vertical	92 (0.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3289 (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)	975.2	N.A.	4.7
FM - Front-Medium (30-60)	6556.3	N.A.	31.9
FH - Front-High (60-80)	7438.3	N.A.	36.2
FVH - Front-Very High (80-90)	339.8	N.A.	1.7
BL - Back-Low (0-30)	911.6	N.A.	4.4
BM - Back-Medium (30-60)	2899.8	N.A.	14.1
BH - Back-High (60-80)	1281.9	N.A.	6.2
BVH - Back-Very High (80-90)	105.0	N.A.	0.5
UL - Uplight-Low (90-100)	11.3	N.A.	0.1
UH - Uplight-High (100-180)	26.9	N.A.	0.1
Total	20546.1	N.A.	100.0
BUG Rating	B3-U2-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	40	45	55	65	75
0.0	1661	1661	1661	1661	1661	1661	1661	1661	1661	1661
2.5	1644	1645	1652	1646	1640	1627	1618	1628	1625	1621
5.0	1519	1500	1501	1506	1556	1573	1623	1638	1639	1618
7.5	1409	1373	1383	1398	1427	1438	1448	1508	1664	1638
10.0	1420	1396	1421	1434	1445	1435	1459	1493	1580	1781
12.5	1463	1460	1470	1463	1488	1517	1564	1551	1623	1811
15.0	1603	1586	1614	1591	1572	1599	1621	1723	1729	1943
17.5	1843	1780	1800	1748	1781	1767	1780	1863	1964	2083
20.0	2265	2230	2094	1970	2022	2032	2037	2060	2164	2276
22.5	2613	2576	2512	2435	2293	2300	2315	2322	2381	2459
25.0	3087	3108	2945	2824	2719	2722	2602	2610	2625	2689
27.5	3432	3429	3419	3325	3093	3062	3031	2874	2853	2902
30.0	3870	3891	3802	3665	3581	3488	3385	3179	3054	3048
32.5	4117	4142	4182	4143	3937	3870	3791	3462	3259	3169
35.0	4356	4387	4442	4436	4321	4233	4150	3831	3426	3219
37.5	4612	4659	4706	4709	4626	4577	4451	4089	3621	3322
40.0	4938	4958	5002	5007	4963	4879	4774	4419	3841	3450
42.5	5281	5303	5346	5376	5328	5242	5109	4820	4096	3626
45.0	5683	5729	5756	5814	5758	5683	5533	5245	4452	3898
47.5	6139	6197	6263	6343	6307	6198	6043	5751	4897	4240
50.0	6620	6688	6786	6974	6927	6829	6644	6412	5517	4669
52.5	7089	7180	7300	7632	7637	7547	7377	7231	6152	5212
55.0	7440	7552	7777	8271	8388	8369	8282	8247	7016	5849
57.5	7768	7932	8195	8835	9252	9387	9406	9410	7922	6531
60.0	8236	8448	8795	9513	10213	10570	10672	10650	8784	7014
62.5	8716	8979	9407	10352	11398	11927	12009	11745	9426	7274
65.0	9054	9253	9896	11198	12622	13298	13259	12405	9557	6941
67.5	8759	8909	9833	11729	13544	14182	14076	12254	8842	5862
70.0	7708	7858	8962	11482	13881	14270	13957	11140	7123	4145
72.5	5532	5665	6963	9684	13204	13497	12884	8855	4632	2288
75.0	2680	2840	4124	6628	10190	10816	10011	5775	2608	1423
77.5	1255	1350	2079	3502	6006	6763	6294	3320	1666	937
80.0	668	734	1346	2118	2787	3289	3263	2035	1014	570
82.5	450	497	913	1357	1601	1772	1801	1029	618	314
85.0	329	370	666	912	1086	945	711	426	299	182
87.5	213	237	435	423	528	348	132	143	98	80
90.0	51	73	92	52	33	24	20	18	18	17
92.5	3	3	4	7	11	13	15	17	19	17
95.0	3	2	4	7	12	14	16	18	19	18
97.5	3	2	4	7	11	13	15	16	19	18
100.0	2	2	4	6	8	9	10	12	15	15
102.5	2	2	3	5	6	7	7	9	11	12
105.0	2	2	3	5	5	6	6	7	8	9
107.5	2	2	3	4	5	5	5	6	6	7
110.0	2	2	3	4	5	5	5	5	6	6
112.5	2	2	3	4	5	5	5	5	5	6
115.0	2	2	3	4	5	5	5	5	5	6
117.5	2	2	3	4	5	5	5	5	5	6
120.0	2	2	3	5	5	5	5	5	6	6
122.5	3	3	4	5	5	5	5	6	6	6
125.0	3	3	4	5	5	5	6	6	6	6
127.5	4	4	4	5	6	6	6	6	6	7
130.0	4	4	4	5	6	6	6	6	7	7

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CANDELA TABULATION - (Cont.)

132.5	5	5	5	6	6	6	6	7	7	7
135.0	6	6	5	6	6	7	7	7	7	7
137.5	7	6	6	6	7	7	7	7	7	7
140.0	7	7	7	7	7	7	7	7	7	7
142.5	7	6	6	6	7	6	7	6	7	7
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**

	85	90	95	105	115	125	135	145	155	165
0.0	1661	1661	1661	1661	1661	1661	1661	1661	1661	1661
2.5	1632	1635	1623	1630	1651	1652	1654	1674	1689	1710
5.0	1599	1585	1603	1631	1670	1702	1742	1685	1633	1638
7.5	1617	1612	1624	1648	1737	1626	1564	1555	1551	1548
10.0	1677	1640	1677	1801	1702	1622	1588	1623	1621	1626
12.5	1824	1772	1819	1900	1749	1687	1706	1703	1701	1747
15.0	1944	1913	1950	2008	1818	1836	1790	1791	1820	1856
17.5	2131	2078	2098	2134	1972	1942	1897	1938	1963	1984
20.0	2370	2307	2321	2259	2121	2057	2046	2050	2051	2121
22.5	2570	2535	2566	2393	2242	2166	2166	2156	2242	2310
25.0	2800	2726	2774	2531	2341	2289	2244	2322	2371	2470
27.5	3009	2889	2919	2608	2438	2357	2362	2428	2561	2652
30.0	3108	3006	3039	2702	2472	2443	2476	2588	2664	2785
32.5	3134	3001	3042	2673	2511	2474	2581	2643	2813	2935
35.0	3148	2992	3022	2637	2485	2531	2630	2729	2861	2980
37.5	3180	2993	3005	2577	2432	2527	2616	2707	2871	3016
40.0	3244	3017	3003	2535	2365	2490	2575	2673	2873	3072
42.5	3348	3070	3018	2461	2282	2441	2518	2628	2902	3124
45.0	3506	3170	3065	2415	2207	2369	2425	2568	2982	2960
47.5	3758	3340	3182	2390	2102	2271	2330	2499	3022	2701
50.0	4099	3573	3328	2384	1995	2180	2217	2458	2857	2482
52.5	4534	3876	3503	2394	1878	2071	2109	2433	2630	2297
55.0	5006	4170	3684	2411	1781	1962	2008	2343	2413	2129
57.5	5409	4418	3822	2402	1670	1850	1893	2198	2195	1931
60.0	5622	4536	3783	2366	1564	1739	1766	2040	1926	1755
62.5	5537	4384	3410	2265	1430	1602	1649	1840	1718	1634
65.0	4960	3766	2655	2009	1298	1464	1513	1696	1546	1537
67.5	3856	2811	1795	1628	1151	1309	1382	1582	1394	1452
70.0	2418	1723	1126	1193	979	1131	1258	1444	1255	1369
72.5	1229	916	763	864	812	960	1119	1265	1119	1262
75.0	820	580	521	628	627	773	952	1064	946	1059
77.5	519	353	335	430	472	603	767	780	616	650

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CANDELA TABULATION - (Cont.)

80.0	283	204	233	310	366	469	510	420	367	437
82.5	180	134	162	226	275	268	276	311	249	311
85.0	110	71	96	148	142	148	174	179	126	197
87.5	47	20	40	54	58	66	70	69	51	83
90.0	12	5	7	8	7	7	6	5	6	7
92.5	12	5	8	8	8	7	6	4	2	0
95.0	13	6	9	9	9	8	7	5	3	1
97.5	13	7	11	11	10	10	9	7	4	2
100.0	12	7	10	10	11	10	9	8	5	3
102.5	11	7	9	10	10	10	9	8	6	4
105.0	9	7	8	9	9	9	9	7	6	4
107.5	8	6	8	8	9	8	8	6	5	4
110.0	7	6	7	8	8	8	7	6	5	3
112.5	6	6	7	8	8	8	7	6	5	3
115.0	6	6	7	8	8	8	7	6	5	4
117.5	6	7	7	8	8	8	7	7	6	4
120.0	6	7	7	8	8	8	8	7	6	4
122.5	6	7	7	8	8	8	8	7	6	4
125.0	7	7	7	8	8	8	7	7	6	4
127.5	7	7	7	8	8	8	7	7	5	4
130.0	7	7	7	8	8	8	7	6	5	4
132.5	7	7	7	8	8	8	7	6	5	4
135.0	7	7	7	8	8	7	6	5	4	3
137.5	7	7	7	8	8	7	6	5	4	3
140.0	7	7	7	8	8	7	6	4	4	2
142.5	6	7	7	7	7	6	5	4	3	2
145.0	5	5	6	6	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	1661	1661
2.5	1706	1701
5.0	1634	1648
7.5	1572	1554
10.0	1605	1632
12.5	1743	1745
15.0	1861	1868
17.5	2017	2055
20.0	2221	2241
22.5	2392	2410
25.0	2562	2597

IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-FT-LED-18L-50.IES

CANDELA TABULATION - (Cont.)

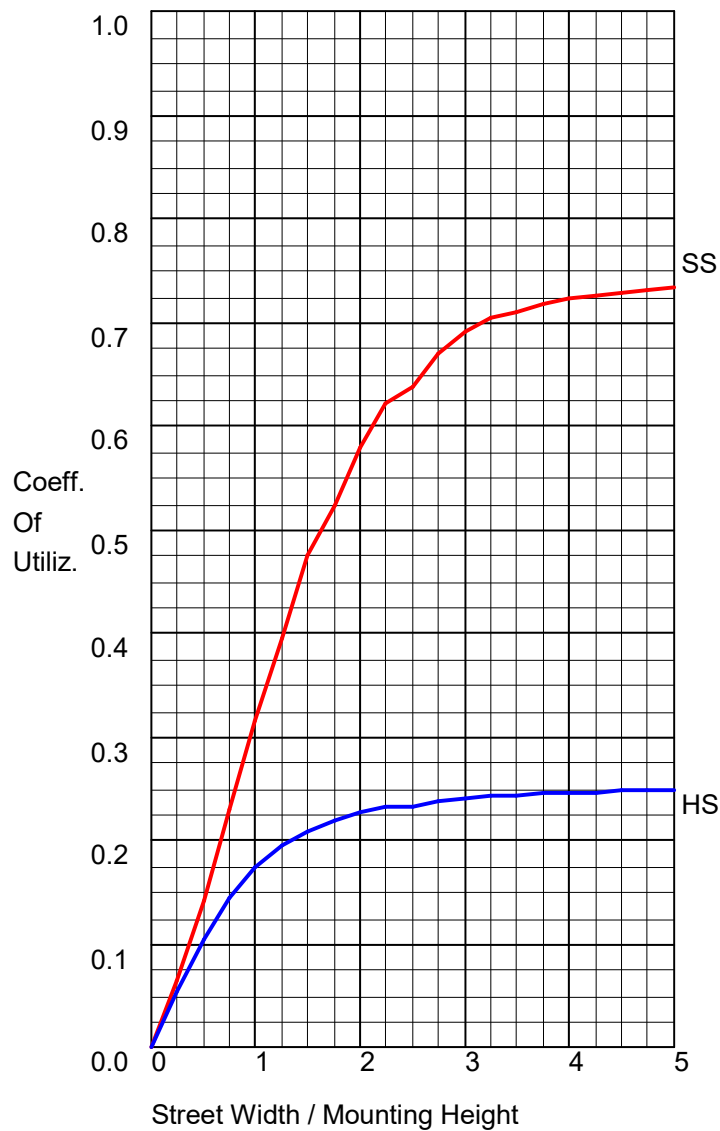
27.5	2718	2721
30.0	2887	2893
32.5	2957	2949
35.0	2981	2970
37.5	3013	2995
40.0	3036	3007
42.5	2867	2803
45.0	2595	2543
47.5	2406	2367
50.0	2254	2219
52.5	2106	2072
55.0	1957	1921
57.5	1759	1722
60.0	1612	1566
62.5	1506	1453
65.0	1440	1385
67.5	1403	1343
70.0	1375	1314
72.5	1330	1280
75.0	1166	1119
77.5	815	816
80.0	699	745
82.5	567	618
85.0	405	460
87.5	231	290
90.0	21	28
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

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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

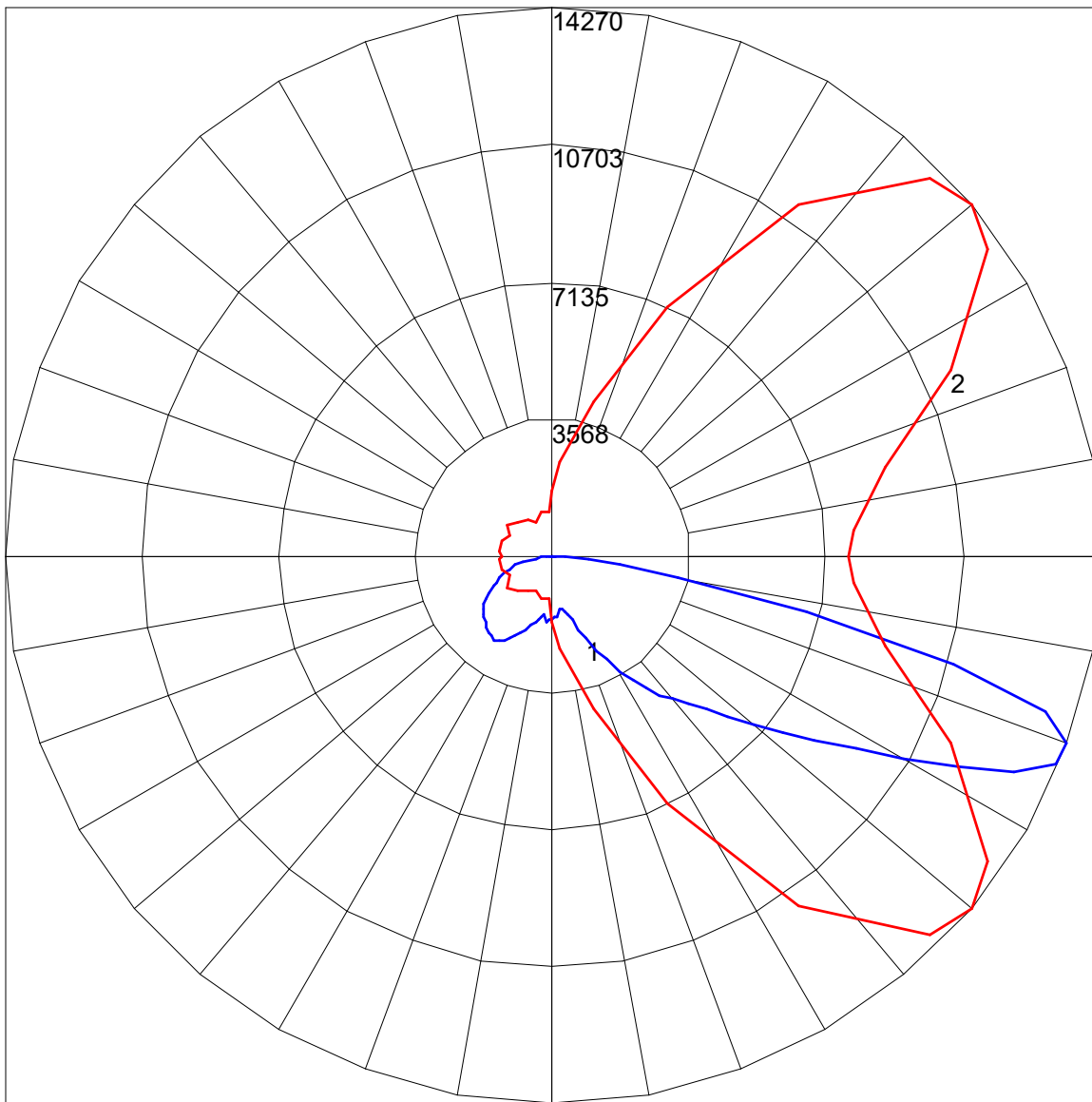
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

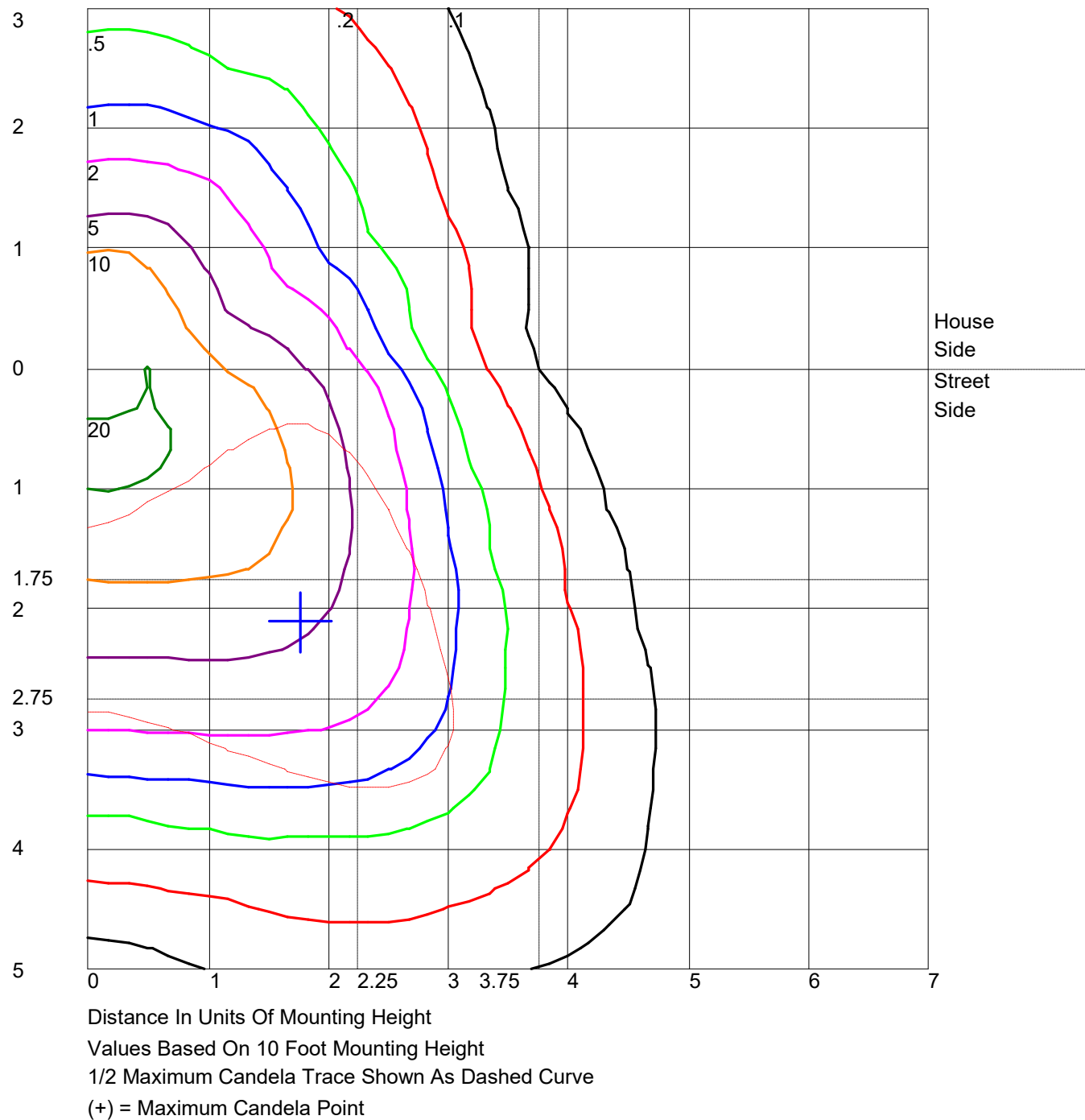
	Lumens	Percent Of Luminaire
Downward Street Side	15309.7	74.5
Downward House Side	5198.4	25.3
Downward Total	20508.1	99.8
Upward Street Side	21.2	0.1
Upward House Side	17.1	0.1
Upward Total	38.3	0.2
Total Flux	20546.4	100.0

POLAR GRAPH

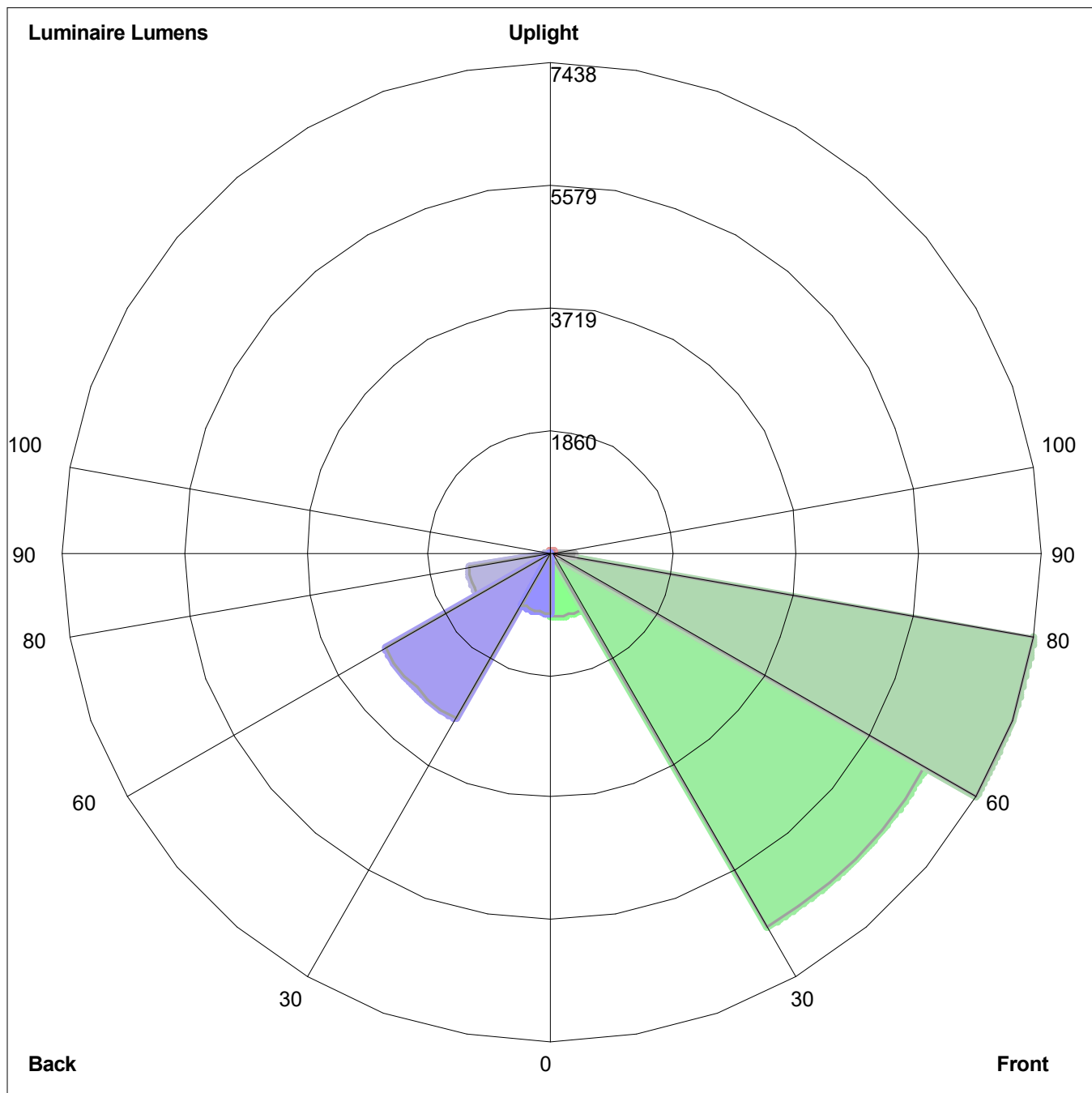


Maximum Candela = 14270 Located At Horizontal Angle = 40, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=975.2, Medium=6556.3, High=7438.3, Very High=339.8
Back: Low=911.6, Medium=2899.8, High=1281.9, Very High=105.0
Uplight: Low=11.3, High=26.9

BUG Rating : B3-U2-G3