



IES ROAD REPORT

PHOTOMETRIC FILENAME : XCN4-PT-2-LED-10L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-13253

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/07/22

[TEST DATE] 02/10/22

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] XCN4-PT-2-LED-10L-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10240
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	75
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8275
Maximum Candela Angle	77.5H 65V
Maximum Candela (<90 Degrees Vertical)	8275
Maximum Candela Angle (<90 Degrees Vertical)	77.5H 65V
Maximum Candela At 90 Degrees Vertical	16 (0.2% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	541 (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)	587.6	N.A.	5.7
FM - Front-Medium (30-60)	3969.8	N.A.	38.8
FH - Front-High (60-80)	2030.9	N.A.	19.8
FVH - Front-Very High (80-90)	52.7	N.A.	0.5
BL - Back-Low (0-30)	516.0	N.A.	5.0
BM - Back-Medium (30-60)	2218.0	N.A.	21.7
BH - Back-High (60-80)	777.0	N.A.	7.6
BVH - Back-Very High (80-90)	77.4	N.A.	0.8
UL - Uplight-Low (90-100)	4.6	N.A.	0.0
UH - Uplight-High (100-180)	5.7	N.A.	0.1
Total	10239.7	N.A.	100.0
BUG Rating	B2-U1-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>77.5</u>
0.0	896	896	896	896	896	896	896	896	896	896
2.5	959	949	940	923	908	894	885	874	876	875
5.0	913	916	904	900	925	945	938	932	886	881
7.5	925	922	911	925	893	897	896	961	922	905
10.0	976	965	988	962	949	943	930	958	1017	995
12.5	1020	1031	1030	1016	1012	1032	994	1015	1053	1071
15.0	1115	1113	1133	1106	1078	1096	1117	1093	1156	1178
17.5	1213	1187	1208	1195	1218	1193	1217	1235	1255	1284
20.0	1350	1338	1301	1267	1306	1336	1341	1379	1402	1411
22.5	1425	1417	1415	1415	1380	1439	1473	1532	1531	1559
25.0	1583	1592	1566	1513	1530	1541	1641	1716	1743	1765
27.5	1717	1729	1718	1707	1643	1705	1771	1894	1973	2002
30.0	1925	1943	1903	1849	1852	1846	1901	2096	2213	2239
32.5	2079	2101	2115	2111	2022	2033	2072	2279	2439	2442
35.0	2320	2323	2332	2315	2255	2228	2255	2419	2630	2640
37.5	2612	2633	2618	2576	2492	2437	2415	2568	2855	2869
40.0	2959	2985	2982	2912	2811	2703	2633	2673	3077	3102
42.5	3316	3348	3358	3335	3206	3036	2883	2803	3288	3335
45.0	3593	3630	3674	3752	3647	3457	3196	2941	3500	3585
47.5	3692	3728	3826	3991	4024	3960	3659	3153	3747	3887
50.0	3580	3608	3727	3984	4228	4465	4291	3515	4090	4279
52.5	3253	3252	3397	3709	4144	4781	5006	4035	4577	4868
55.0	2718	2698	2838	3184	3747	4763	5731	4705	5167	5547
57.5	1908	1958	2081	2412	3037	4324	6179	5606	5875	6313
60.0	1220	1255	1330	1563	2100	3408	6261	6542	6620	7080
62.5	826	828	854	979	1279	2144	5821	7048	7421	7852
65.0	606	609	625	700	820	1195	4639	6928	7848	8275
67.5	457	463	479	528	621	775	3039	6036	7566	7910
70.0	351	362	366	414	491	572	1688	4429	6158	6109
72.5	254	268	263	313	389	452	913	2755	3577	3182
75.0	151	160	148	197	279	362	565	1578	1600	1286
77.5	108	123	102	120	162	261	371	923	791	616
80.0	106	120	93	91	111	170	231	541	446	353
82.5	127	129	90	69	82	121	127	310	277	228
85.0	124	125	74	50	55	78	81	108	142	125
87.5	62	60	36	21	18	29	33	37	42	43
90.0	3	3	2	2	2	3	7	13	16	16
92.5	2	2	2	2	1	2	6	13	16	16
95.0	2	2	2	2	1	2	5	12	15	15
97.5	2	1	1	2	1	2	4	10	13	13
100.0	2	1	1	2	1	1	3	7	10	11
102.5	2	1	1	1	1	1	1	4	7	7
105.0	1	1	1	1	1	1	1	2	3	4
107.5	1	1	1	1	1	0	0	0	1	1
110.0	1	1	1	1	1	0	0	0	0	0
112.5	1	1	1	1	1	0	0	0	0	0
115.0	2	1	1	1	1	0	0	0	0	0
117.5	2	1	1	1	1	0	0	0	0	0
120.0	2	2	1	1	1	0	0	0	0	0
122.5	2	2	2	2	1	1	0	0	0	0
125.0	2	2	2	2	1	1	0	0	0	0
127.5	2	2	2	2	1	1	0	0	0	0
130.0	3	3	2	2	1	1	1	0	0	0

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PHOTOMETRIC FILENAME : XCN4-PT-2-LED-10L-50.IES

CANDELA TABULATION - (Cont.)

132.5	3	3	3	2	1	1	1	0	0	0
135.0	4	3	3	2	2	1	1	0	0	0
137.5	4	4	3	3	2	1	1	1	0	0
140.0	4	4	3	3	2	1	1	1	0	0
142.5	4	4	3	2	2	1	1	1	0	0
145.0	2	2	1	1	1	0	0	0	0	0
147.5	1	1	1	0	0	0	0	0	0	0
150.0	1	1	1	0	0	0	0	0	0	0
152.5	1	1	1	0	0	0	0	0	0	0
155.0	1	1	0	0	0	0	0	0	0	0
157.5	1	1	0	0	0	0	0	0	0	0
160.0	1	1	0	0	0	0	0	0	0	0
162.5	1	1	0	0	0	0	0	0	0	0
165.0	1	1	0	0	0	0	0	0	0	0
167.5	1	1	0	0	0	0	0	0	0	0
170.0	1	1	1	1	0	0	0	0	0	0
172.5	1	1	1	1	0	0	0	0	0	0
175.0	1	1	1	1	0	0	0	0	0	0
177.5	1	1	1	1	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	896	896	896	896	896	896	896	896	896	896
2.5	880	879	877	870	867	859	867	880	883	887
5.0	875	845	842	852	858	853	881	844	811	797
7.5	871	870	854	854	872	806	758	744	758	740
10.0	920	886	878	921	843	781	752	744	743	764
12.5	1021	962	964	956	848	789	794	775	783	805
15.0	1107	1045	1037	1012	869	847	820	834	864	910
17.5	1219	1165	1133	1054	933	886	897	957	999	1061
20.0	1367	1301	1271	1121	992	953	1000	1088	1132	1222
22.5	1523	1469	1396	1180	1045	1043	1129	1223	1389	1491
25.0	1742	1635	1583	1276	1125	1155	1255	1448	1593	1756
27.5	1958	1837	1804	1383	1223	1275	1464	1644	1894	2041
30.0	2194	2050	1991	1479	1334	1415	1631	1893	2080	2248
32.5	2379	2211	2123	1572	1447	1550	1812	2041	2300	2442
35.0	2585	2386	2269	1650	1554	1714	1934	2179	2392	2490
37.5	2811	2575	2425	1737	1638	1787	2000	2227	2388	2455
40.0	3049	2776	2588	1832	1704	1844	2021	2215	2301	2326
42.5	3317	2994	2770	1918	1777	1878	1986	2118	2143	2115
45.0	3601	3242	2952	2015	1815	1863	1920	1969	1942	1874
47.5	3945	3519	3145	2107	1838	1825	1822	1803	1711	1645
50.0	4390	3869	3354	2190	1858	1764	1702	1633	1526	1463
52.5	4966	4244	3575	2270	1867	1676	1565	1506	1382	1328
55.0	5623	4658	3759	2327	1830	1558	1455	1398	1245	1189
57.5	6322	5050	3868	2336	1760	1418	1343	1284	1082	1027
60.0	6971	5327	3829	2245	1640	1251	1195	1129	919	876
62.5	7368	5316	3530	2007	1437	1056	1017	957	762	716
65.0	7298	4846	2857	1621	1171	841	817	779	621	574
67.5	6305	3782	1959	1155	889	656	654	622	508	497
70.0	4342	2365	1199	778	662	527	540	504	451	457
72.5	1860	1150	752	546	508	436	457	438	413	419
75.0	699	545	498	407	407	375	395	391	363	338
77.5	374	331	348	331	328	327	344	301	233	191

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CANDELA TABULATION - (Cont.)

80.0	252	211	218	275	274	277	233	160	202	183
82.5	164	113	119	220	224	173	121	129	246	249
85.0	93	57	65	153	128	89	93	133	266	262
87.5	35	18	27	48	36	42	53	96	188	204
90.0	14	2	10	7	4	2	1	1	1	1
92.5	14	2	10	7	5	2	1	1	1	1
95.0	14	2	11	8	5	2	2	1	1	1
97.5	13	2	10	7	5	2	2	1	1	1
100.0	10	2	8	6	4	2	1	1	1	1
102.5	7	1	6	5	3	2	1	1	1	1
105.0	4	1	4	3	3	2	1	1	1	1
107.5	2	1	2	2	2	2	1	1	1	1
110.0	1	0	1	2	2	2	1	1	1	1
112.5	0	0	1	2	2	1	1	1	1	1
115.0	0	0	1	1	2	2	1	1	1	1
117.5	0	0	1	1	2	2	1	1	1	1
120.0	0	0	1	1	2	2	2	1	1	1
122.5	0	0	1	1	2	2	2	1	1	1
125.0	0	1	1	1	2	2	2	2	1	1
127.5	0	1	1	2	2	2	2	2	1	1
130.0	0	1	1	2	2	2	2	2	2	2
132.5	0	1	1	2	2	2	2	2	2	2
135.0	0	1	1	2	2	2	2	2	2	2
137.5	0	1	1	2	2	2	2	2	2	2
140.0	0	1	1	1	2	2	2	2	2	2
142.5	0	0	1	1	2	2	2	2	2	2
145.0	0	0	0	1	1	2	2	2	1	1
147.5	0	0	0	0	1	1	1	1	1	0
150.0	0	0	0	0	1	1	1	1	1	0
152.5	0	0	0	0	0	1	1	1	1	0
155.0	0	0	0	0	0	1	1	1	0	0
157.5	0	0	0	0	0	1	1	1	0	0
160.0	0	0	0	0	0	0	1	1	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	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
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	896	896
2.5	887	889
5.0	810	797
7.5	736	735
10.0	740	753
12.5	812	805
15.0	917	931
17.5	1063	1102
20.0	1313	1336
22.5	1551	1581
25.0	1873	1876

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CANDELA TABULATION - (Cont.)

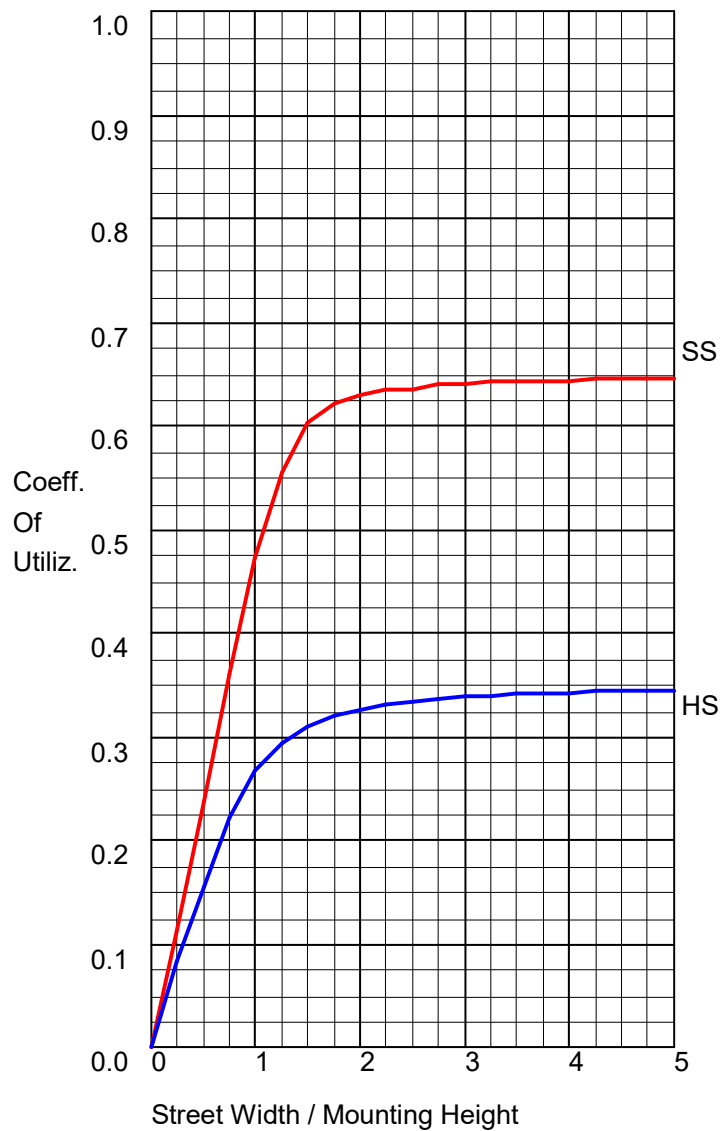
27.5	2111	2135
30.0	2368	2360
32.5	2477	2473
35.0	2505	2499
37.5	2442	2432
40.0	2289	2276
42.5	2071	2058
45.0	1822	1808
47.5	1597	1586
50.0	1429	1418
52.5	1295	1285
55.0	1142	1138
57.5	989	986
60.0	839	822
62.5	680	676
65.0	572	577
67.5	526	541
70.0	503	529
72.5	469	509
75.0	358	393
77.5	203	237
80.0	204	229
82.5	272	280
85.0	276	280
87.5	170	210
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	0	0
110.0	0	0
112.5	0	0
115.0	0	0
117.5	0	0
120.0	0	0
122.5	1	0
125.0	1	0
127.5	1	1
130.0	1	1
132.5	1	1
135.0	1	1
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	0	0

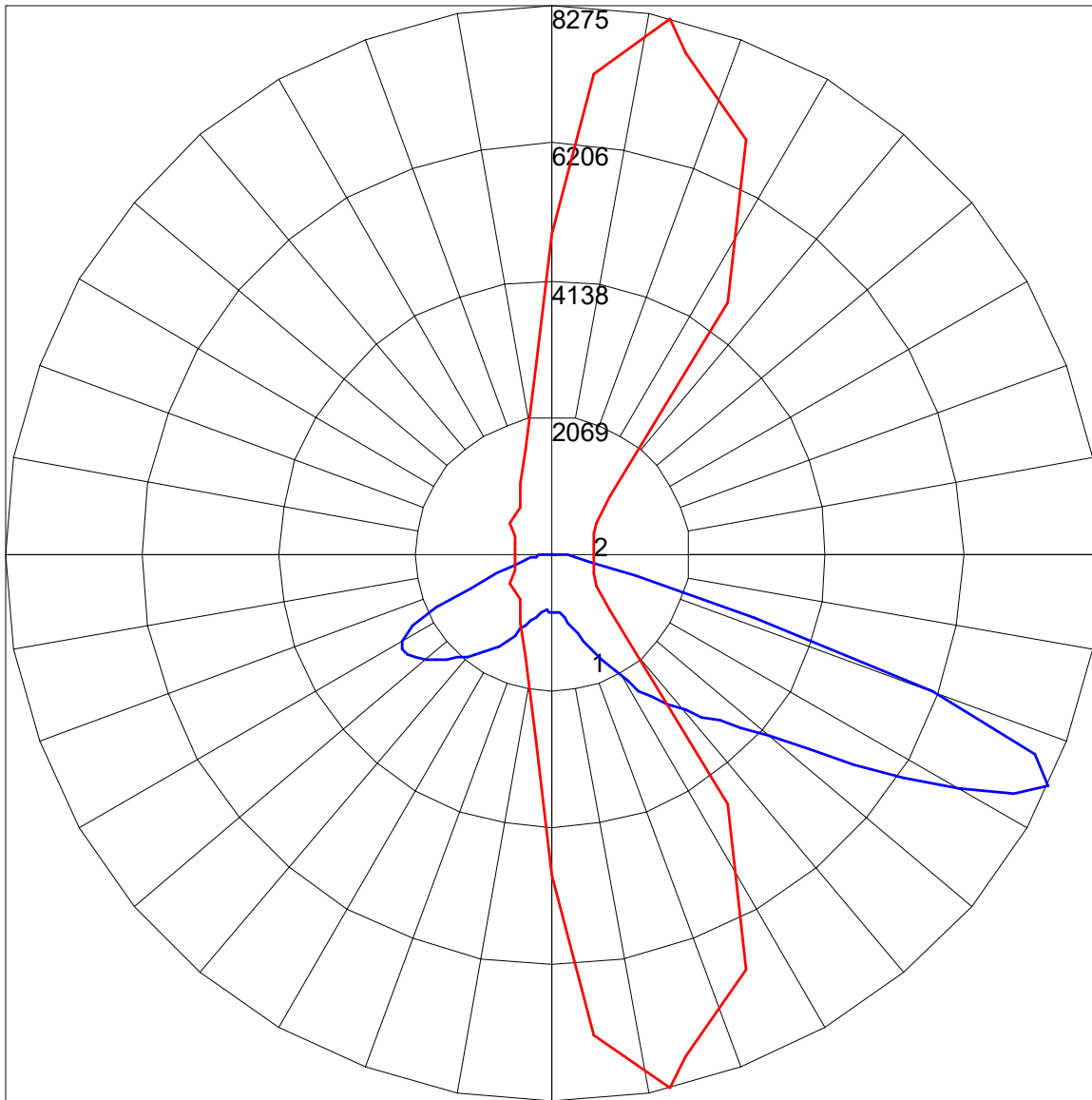
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

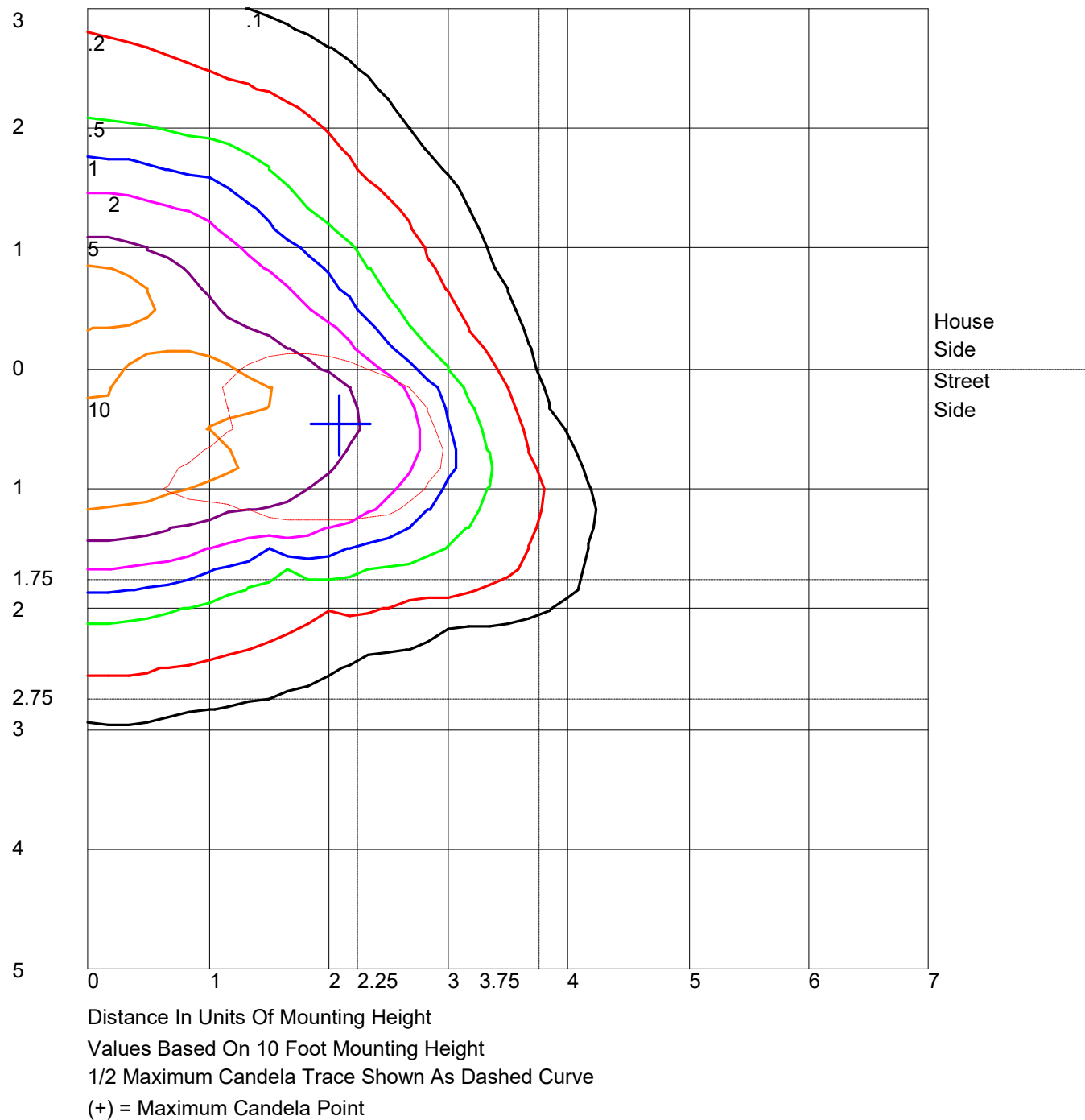
	Lumens	Percent Of Luminaire
Downward Street Side	6641.0	64.9
Downward House Side	3588.3	35.0
Downward Total	10229.3	99.9
Upward Street Side	5.5	0.1
Upward House Side	4.9	0.0
Upward Total	10.4	0.1
Total Flux	10239.7	100.0

POLAR GRAPH

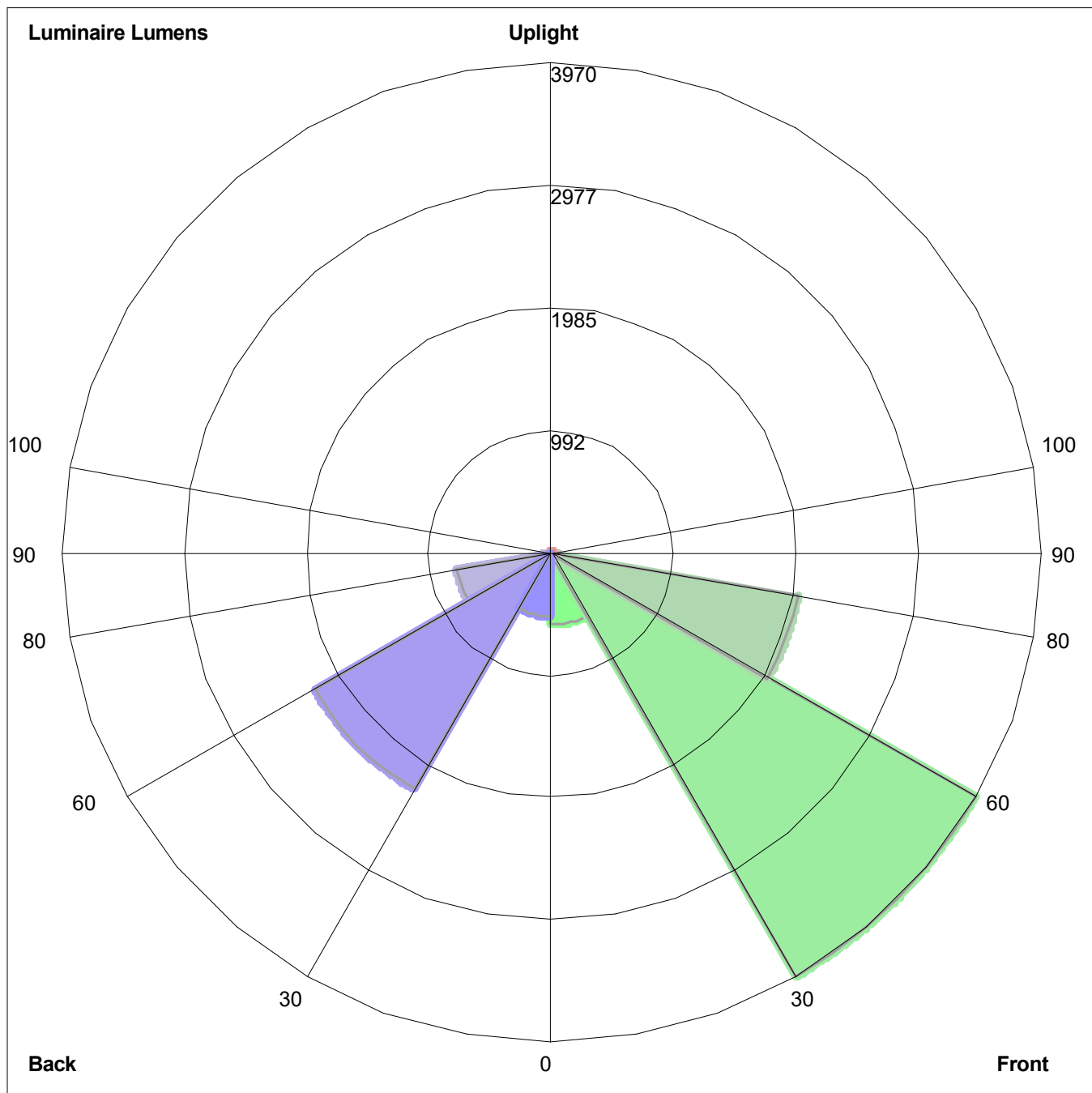


Maximum Candela = 8275 Located At Horizontal Angle = 77.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=587.6, Medium=3969.8, High=2030.9, Very High=52.7
Back: Low=516.0, Medium= 2218.0, High=777.0, Very High=77.4
Uplight: Low=4.6, High=5.7

BUG Rating : B2-U1-G2