



IES ROAD REPORT

PHOTOMETRIC FILENAME : XCN4-PT-2-LED-10L-40.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
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] XCN4-PT-2-LED-10L-40
[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] 4000

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10157
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	75
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8208
Maximum Candela Angle	77.5H 65V
Maximum Candela (<90 Degrees Vertical)	8208
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	537 (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)	582.9	N.A.	5.7
FM - Front-Medium (30-60)	3937.7	N.A.	38.8
FH - Front-High (60-80)	2014.5	N.A.	19.8
FVH - Front-Very High (80-90)	52.3	N.A.	0.5
BL - Back-Low (0-30)	511.8	N.A.	5.0
BM - Back-Medium (30-60)	2200.0	N.A.	21.7
BH - Back-High (60-80)	770.7	N.A.	7.6
BVH - Back-Very High (80-90)	76.8	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	10157.0	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	889	889	889	889	889	889	889	889	889	889
2.5	951	941	932	916	901	887	878	867	869	868
5.0	906	909	897	893	918	937	930	924	879	874
7.5	918	915	904	918	886	890	889	953	915	898
10.0	968	957	980	954	941	935	922	950	1009	987
12.5	1012	1023	1022	1008	1004	1024	986	1007	1044	1062
15.0	1106	1104	1124	1097	1069	1087	1108	1084	1147	1168
17.5	1203	1177	1198	1185	1208	1183	1207	1225	1245	1274
20.0	1339	1327	1290	1257	1295	1325	1330	1368	1391	1400
22.5	1413	1406	1404	1404	1369	1427	1461	1520	1519	1546
25.0	1570	1579	1553	1501	1518	1529	1628	1702	1729	1751
27.5	1703	1715	1704	1693	1630	1691	1757	1879	1957	1986
30.0	1909	1927	1888	1834	1837	1831	1886	2079	2195	2221
32.5	2062	2084	2098	2094	2006	2017	2055	2261	2419	2422
35.0	2301	2304	2313	2296	2237	2210	2237	2399	2609	2619
37.5	2591	2612	2597	2555	2472	2417	2395	2547	2832	2846
40.0	2935	2961	2958	2888	2788	2681	2612	2651	3052	3077
42.5	3289	3321	3331	3308	3180	3011	2860	2780	3261	3308
45.0	3564	3601	3644	3722	3618	3429	3170	2917	3472	3556
47.5	3662	3698	3795	3959	3991	3928	3629	3128	3717	3856
50.0	3551	3579	3697	3952	4194	4429	4256	3487	4057	4244
52.5	3227	3226	3370	3679	4110	4742	4966	4002	4540	4829
55.0	2696	2676	2815	3158	3717	4724	5685	4667	5125	5502
57.5	1893	1942	2064	2392	3012	4289	6129	5561	5827	6262
60.0	1210	1245	1319	1550	2083	3380	6210	6489	6566	7023
62.5	819	821	847	971	1269	2127	5774	6991	7361	7789
65.0	601	604	620	694	813	1185	4601	6872	7785	8208
67.5	453	459	475	524	616	769	3014	5987	7505	7846
70.0	348	359	363	411	487	567	1674	4393	6108	6060
72.5	252	266	261	310	386	448	906	2733	3548	3156
75.0	150	159	147	195	277	359	560	1565	1587	1276
77.5	107	122	101	119	161	259	368	916	785	611
80.0	105	119	92	90	110	169	229	537	442	350
82.5	126	128	89	68	81	120	126	307	275	226
85.0	123	124	73	50	55	77	80	107	141	124
87.5	61	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-40.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	889	889	889	889	889	889	889	889	889	889
2.5	873	872	870	863	860	852	860	873	876	880
5.0	868	838	835	845	851	846	874	837	804	791
7.5	864	863	847	847	865	799	752	738	752	734
10.0	913	879	871	914	836	775	746	738	737	758
12.5	1013	954	956	948	841	783	788	769	777	798
15.0	1098	1037	1029	1004	862	840	813	827	857	903
17.5	1209	1156	1124	1045	925	879	890	949	991	1052
20.0	1356	1290	1261	1112	984	945	992	1079	1123	1212
22.5	1511	1457	1385	1170	1037	1035	1120	1213	1378	1479
25.0	1728	1622	1570	1266	1116	1146	1245	1436	1580	1742
27.5	1942	1822	1789	1372	1213	1265	1452	1631	1879	2024
30.0	2176	2033	1975	1467	1323	1404	1618	1878	2063	2230
32.5	2360	2193	2106	1559	1435	1537	1797	2024	2281	2422
35.0	2564	2367	2251	1637	1541	1700	1918	2161	2373	2470
37.5	2788	2554	2405	1723	1625	1773	1984	2209	2369	2435
40.0	3024	2754	2567	1817	1690	1829	2005	2197	2282	2307
42.5	3290	2970	2748	1902	1763	1863	1970	2101	2126	2098
45.0	3572	3216	2928	1999	1800	1848	1904	1953	1926	1859
47.5	3913	3491	3120	2090	1823	1810	1807	1788	1697	1632
50.0	4355	3838	3327	2172	1843	1750	1688	1620	1514	1451
52.5	4926	4210	3546	2252	1852	1662	1552	1494	1371	1317
55.0	5578	4620	3729	2308	1815	1545	1443	1387	1235	1179
57.5	6271	5009	3837	2317	1746	1407	1332	1274	1073	1019
60.0	6915	5284	3798	2227	1627	1241	1185	1120	912	869
62.5	7308	5273	3501	1991	1425	1047	1009	949	756	710
65.0	7239	4807	2834	1608	1162	834	810	773	616	569
67.5	6254	3751	1943	1146	882	651	649	617	504	493
70.0	4307	2346	1189	772	657	523	536	500	447	453
72.5	1845	1141	746	542	504	432	453	434	410	416
75.0	693	541	494	404	404	372	392	388	360	335
77.5	371	328	345	328	325	324	341	299	231	189

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PHOTOMETRIC FILENAME : XCN4-PT-2-LED-10L-40.IES

CANDELA TABULATION - (Cont.)

80.0	250	209	216	273	272	275	231	159	200	182
82.5	163	112	118	218	222	172	120	128	244	247
85.0	92	57	64	152	127	88	92	132	264	260
87.5	35	18	27	48	36	42	53	95	186	202
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	889	889
2.5	880	882
5.0	803	791
7.5	730	729
10.0	734	747
12.5	805	798
15.0	910	923
17.5	1054	1093
20.0	1302	1325
22.5	1538	1568
25.0	1858	1861

IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-2-LED-10L-40.IES

CANDELA TABULATION - (Cont.)

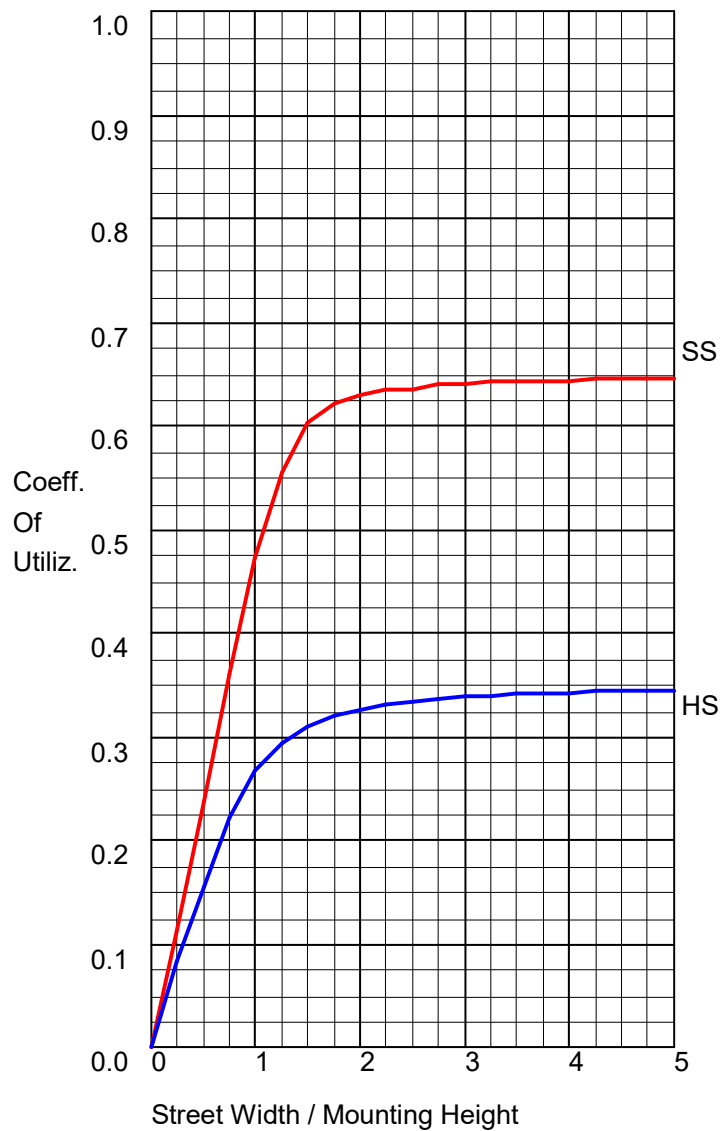
27.5	2094	2118
30.0	2349	2341
32.5	2457	2453
35.0	2485	2479
37.5	2422	2412
40.0	2270	2258
42.5	2054	2041
45.0	1807	1793
47.5	1584	1573
50.0	1417	1407
52.5	1285	1275
55.0	1133	1129
57.5	981	978
60.0	832	815
62.5	675	671
65.0	567	572
67.5	522	537
70.0	499	525
72.5	465	505
75.0	355	390
77.5	201	235
80.0	202	227
82.5	270	278
85.0	274	278
87.5	169	208
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

IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-2-LED-10L-40.IES

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

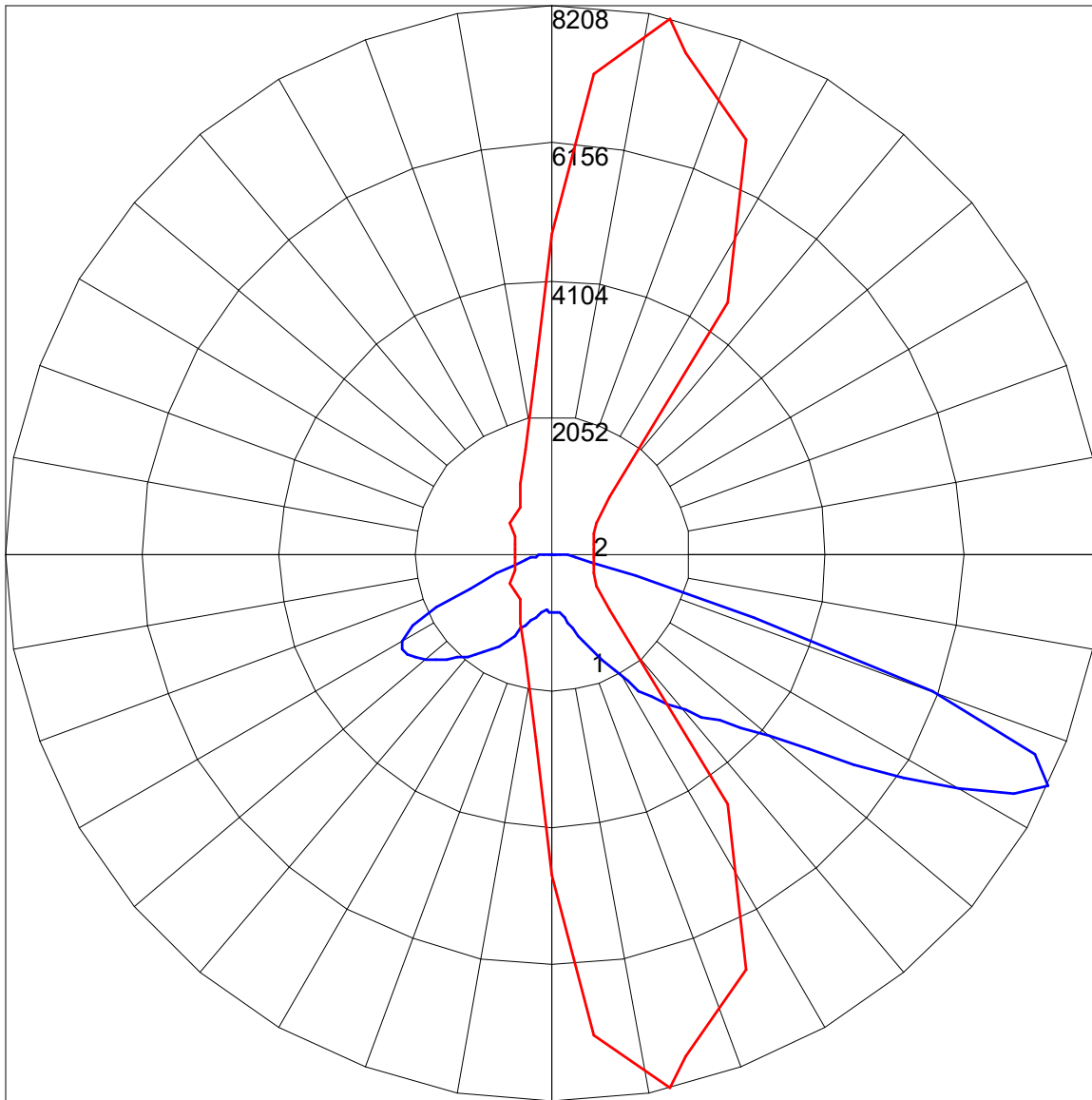
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

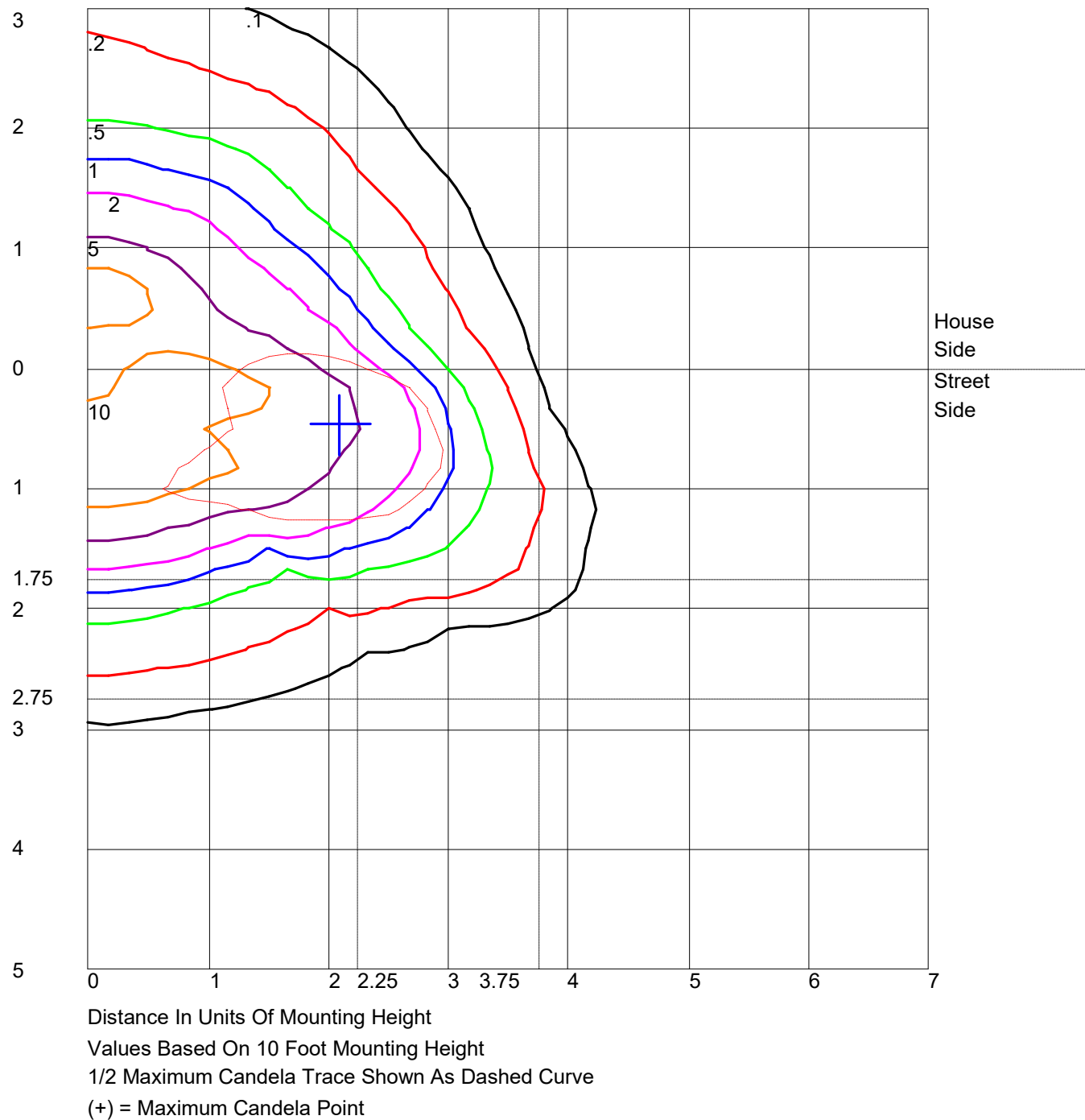
	Lumens	Percent Of Luminaire
Downward Street Side	6587.3	64.9
Downward House Side	3559.3	35.0
Downward Total	10146.6	99.9
Upward Street Side	5.5	0.1
Upward House Side	4.9	0.0
Upward Total	10.4	0.1
Total Flux	10157.0	100.0

POLAR GRAPH

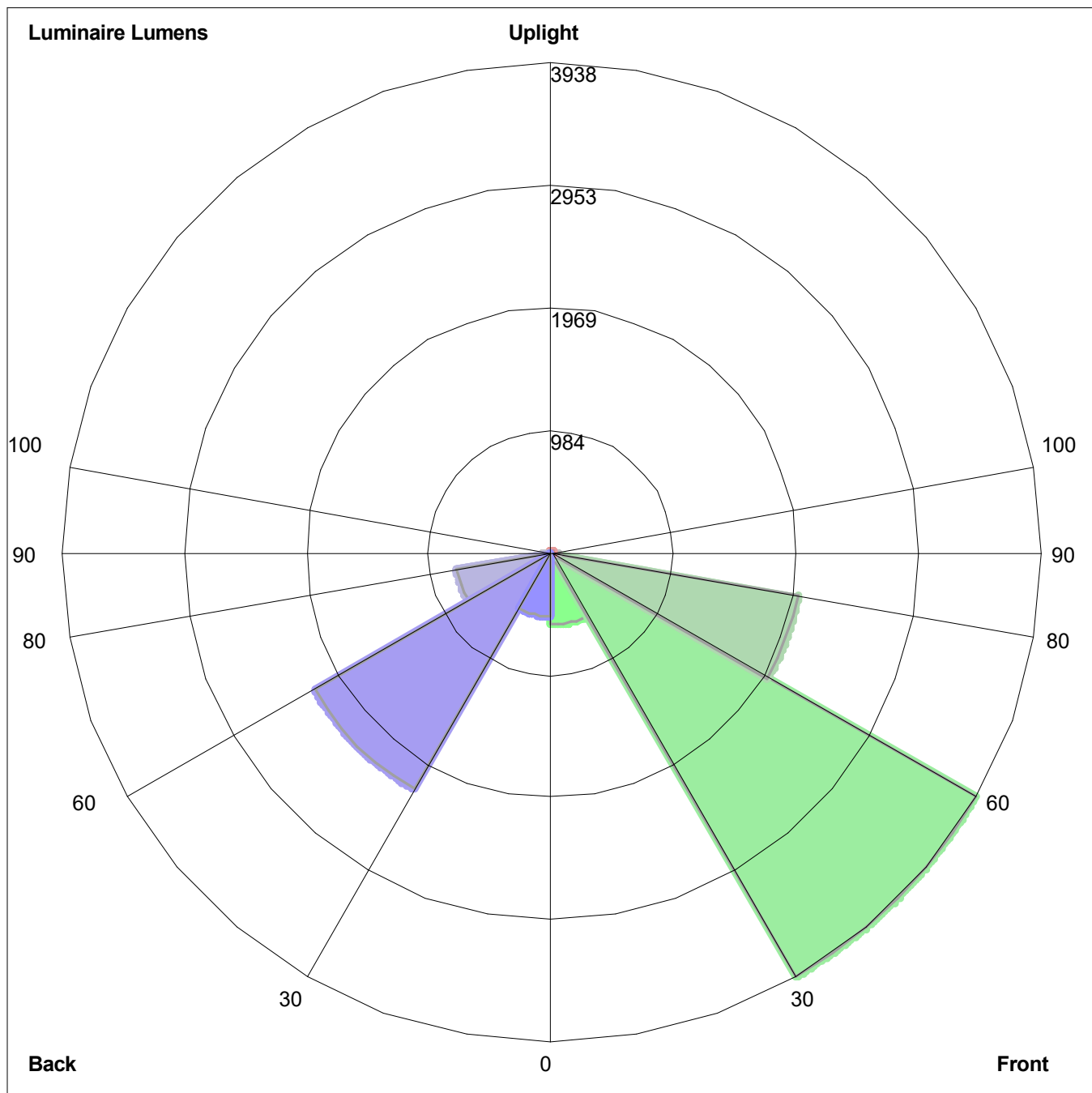


Maximum Candela = 8208 Located At Horizontal Angle = 77.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=582.9, Medium=3937.7, High=2014.5, Very High=52.3
Back: Low=511.8, Medium= 2200.0, High=770.7, Very High=76.8
Uplight: Low=4.6, High=5.7

BUG Rating : B2-U1-G2