



IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-FT-LED-10L-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-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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10854
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	75
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7538
Maximum Candela Angle	40H 70V
Maximum Candela (<90 Degrees Vertical)	7538
Maximum Candela Angle (<90 Degrees Vertical)	40H 70V
Maximum Candela At 90 Degrees Vertical	49 (0.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1737 (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)	515.1	N.A.	4.7
FM - Front-Medium (30-60)	3463.3	N.A.	31.9
FH - Front-High (60-80)	3929.1	N.A.	36.2
FVH - Front-Very High (80-90)	179.6	N.A.	1.7
BL - Back-Low (0-30)	481.5	N.A.	4.4
BM - Back-Medium (30-60)	1531.8	N.A.	14.1
BH - Back-High (60-80)	677.1	N.A.	6.2
BVH - Back-Very High (80-90)	55.5	N.A.	0.5
UL - Uplight-Low (90-100)	6.0	N.A.	0.1
UH - Uplight-High (100-180)	14.7	N.A.	0.1
Total	10853.7	N.A.	100.0
BUG Rating	B2-U2-G2		

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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	877	877	877	877	877	877	877	877	877	877
2.5	868	869	873	869	866	859	855	860	858	856
5.0	802	792	793	796	822	831	857	865	866	855
7.5	744	725	731	738	754	760	765	797	879	865
10.0	750	737	751	757	763	758	771	789	835	941
12.5	773	771	776	773	786	801	826	819	857	957
15.0	847	838	853	840	830	845	856	910	913	1026
17.5	974	940	951	923	941	933	940	984	1037	1100
20.0	1196	1178	1106	1041	1068	1073	1076	1088	1143	1202
22.5	1380	1361	1327	1286	1211	1215	1223	1227	1258	1299
25.0	1631	1642	1556	1492	1436	1438	1374	1379	1387	1420
27.5	1813	1811	1806	1756	1634	1617	1601	1518	1507	1533
30.0	2044	2055	2008	1936	1892	1842	1788	1679	1613	1610
32.5	2175	2188	2209	2188	2080	2044	2003	1829	1721	1674
35.0	2301	2317	2346	2343	2282	2236	2192	2024	1810	1700
37.5	2436	2461	2486	2487	2444	2418	2351	2160	1913	1755
40.0	2608	2619	2642	2645	2622	2577	2522	2334	2029	1822
42.5	2790	2801	2824	2840	2814	2769	2699	2546	2164	1915
45.0	3002	3026	3040	3071	3042	3002	2923	2771	2352	2059
47.5	3243	3273	3308	3351	3332	3274	3192	3038	2587	2240
50.0	3497	3533	3585	3684	3659	3607	3510	3387	2914	2466
52.5	3745	3793	3856	4031	4034	3987	3897	3820	3250	2753
55.0	3930	3989	4108	4369	4431	4421	4375	4356	3706	3090
57.5	4103	4190	4329	4667	4887	4958	4969	4971	4185	3450
60.0	4350	4462	4646	5025	5395	5583	5637	5626	4640	3705
62.5	4604	4743	4969	5468	6021	6300	6344	6204	4979	3842
65.0	4783	4888	5227	5915	6667	7024	7004	6553	5048	3666
67.5	4627	4706	5194	6196	7154	7491	7435	6473	4671	3096
70.0	4072	4151	4734	6065	7332	7538	7372	5884	3763	2190
72.5	2922	2992	3678	5115	6975	7130	6806	4677	2447	1209
75.0	1416	1500	2178	3501	5383	5713	5288	3051	1378	752
77.5	663	713	1098	1850	3173	3572	3325	1754	880	495
80.0	353	388	711	1119	1472	1737	1724	1075	536	301
82.5	238	263	482	717	846	936	951	544	326	166
85.0	174	195	352	482	574	499	376	225	158	96
87.5	113	125	230	223	279	184	70	76	52	42
90.0	27	39	49	27	17	13	11	10	10	9
92.5	2	2	2	4	6	7	8	9	10	9
95.0	2	1	2	4	6	7	8	10	10	10
97.5	2	1	2	4	6	7	8	8	10	10
100.0	1	1	2	3	4	5	5	6	8	8
102.5	1	1	2	3	3	4	4	5	6	6
105.0	1	1	2	3	3	3	3	4	4	5
107.5	1	1	2	2	3	3	3	3	3	4
110.0	1	1	2	2	3	3	3	3	3	3
112.5	1	1	2	2	3	3	3	3	3	3
115.0	1	1	2	2	3	3	3	3	3	3
117.5	1	1	2	2	3	3	3	3	3	3
120.0	1	1	2	3	3	3	3	3	3	3
122.5	2	2	2	3	3	3	3	3	3	3
125.0	2	2	2	3	3	3	3	3	3	3
127.5	2	2	2	3	3	3	3	3	3	4
130.0	2	2	2	3	3	3	3	3	4	4

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

CANDELA TABULATION - (Cont.)

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

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	877	877	877	877	877	877	877	877	877	877
2.5	862	864	857	861	872	873	874	884	892	903
5.0	845	837	847	862	882	899	920	890	863	865
7.5	854	852	858	871	918	859	826	821	819	818
10.0	886	866	886	951	899	857	839	857	856	859
12.5	963	936	961	1004	924	891	901	900	899	923
15.0	1027	1011	1030	1061	960	970	946	946	961	980
17.5	1126	1098	1108	1127	1042	1026	1002	1024	1037	1048
20.0	1252	1219	1226	1193	1120	1087	1081	1083	1083	1120
22.5	1358	1339	1355	1264	1184	1144	1144	1139	1184	1220
25.0	1479	1440	1465	1337	1237	1209	1185	1227	1252	1305
27.5	1589	1526	1542	1378	1288	1245	1248	1283	1353	1401
30.0	1642	1588	1605	1427	1306	1290	1308	1367	1407	1471
32.5	1655	1585	1607	1412	1326	1307	1363	1396	1486	1550
35.0	1663	1580	1596	1393	1313	1337	1389	1442	1511	1574
37.5	1680	1581	1587	1361	1285	1335	1382	1430	1517	1593
40.0	1714	1594	1586	1339	1249	1315	1360	1412	1518	1623
42.5	1769	1622	1594	1300	1205	1289	1330	1388	1533	1650
45.0	1852	1674	1619	1276	1166	1251	1281	1356	1575	1564
47.5	1985	1764	1681	1262	1110	1200	1231	1320	1596	1427
50.0	2165	1887	1758	1259	1054	1152	1171	1298	1509	1311
52.5	2395	2047	1850	1265	992	1094	1114	1285	1389	1213
55.0	2644	2203	1946	1274	941	1036	1061	1238	1275	1125
57.5	2857	2334	2019	1269	882	977	1000	1161	1159	1020
60.0	2970	2396	1998	1250	826	919	933	1078	1017	927
62.5	2925	2316	1801	1196	755	846	871	972	907	863
65.0	2620	1989	1402	1061	686	773	799	896	817	812
67.5	2037	1485	948	860	608	691	730	836	736	767
70.0	1277	910	595	630	517	597	665	763	663	723
72.5	649	484	403	456	429	507	591	668	591	667
75.0	433	306	275	332	331	408	503	562	500	559
77.5	274	186	177	227	249	319	405	412	325	343

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

CANDELA TABULATION - (Cont.)

80.0	149	108	123	164	193	248	269	222	194	231
82.5	95	71	86	119	145	142	146	164	132	164
85.0	58	38	51	78	75	78	92	95	67	104
87.5	25	11	21	29	31	35	37	36	27	44
90.0	6	3	4	4	4	4	3	3	3	4
92.5	6	3	4	4	4	4	3	2	1	0
95.0	7	3	5	5	5	4	4	3	2	1
97.5	7	4	6	6	5	5	5	4	2	1
100.0	6	4	5	5	6	5	5	4	3	2
102.5	6	4	5	5	5	5	5	4	3	2
105.0	5	4	4	5	5	5	5	4	3	2
107.5	4	3	4	4	5	4	4	3	3	2
110.0	4	3	4	4	4	4	4	3	3	2
112.5	3	3	4	4	4	4	4	3	3	2
115.0	3	3	4	4	4	4	4	3	3	2
117.5	3	4	4	4	4	4	4	4	3	2
120.0	3	4	4	4	4	4	4	4	3	2
122.5	3	4	4	4	4	4	4	4	3	2
125.0	4	4	4	4	4	4	4	4	3	2
127.5	4	4	4	4	4	4	4	4	3	2
130.0	4	4	4	4	4	4	4	3	3	2
132.5	4	4	4	4	4	4	4	3	3	2
135.0	4	4	4	4	4	4	3	3	2	2
137.5	4	4	4	4	4	4	3	3	2	2
140.0	4	4	4	4	4	4	3	2	2	1
142.5	3	4	4	4	4	3	3	2	2	1
145.0	3	3	3	3	3	2	2	1	1	0
147.5	2	2	3	3	2	2	1	0	0	0
150.0	2	2	2	2	2	2	1	0	0	0
152.5	2	2	2	2	2	2	1	0	0	0
155.0	2	2	2	2	2	1	1	0	0	0
157.5	2	2	2	2	2	1	1	0	0	0
160.0	2	2	2	2	2	1	1	0	0	0
162.5	2	2	2	2	2	1	1	0	0	0
165.0	2	2	2	2	2	1	0	0	0	0
167.5	2	2	2	2	2	1	1	0	0	0
170.0	2	2	2	2	2	1	1	0	0	0
172.5	2	2	2	2	2	1	1	0	0	0
175.0	2	2	2	2	2	1	1	0	0	0
177.5	2	2	2	2	2	1	0	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>175</u>	<u>180</u>
0.0	877	877
2.5	901	899
5.0	863	871
7.5	830	821
10.0	848	862
12.5	921	922
15.0	983	987
17.5	1065	1086
20.0	1173	1184
22.5	1264	1273
25.0	1353	1372

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

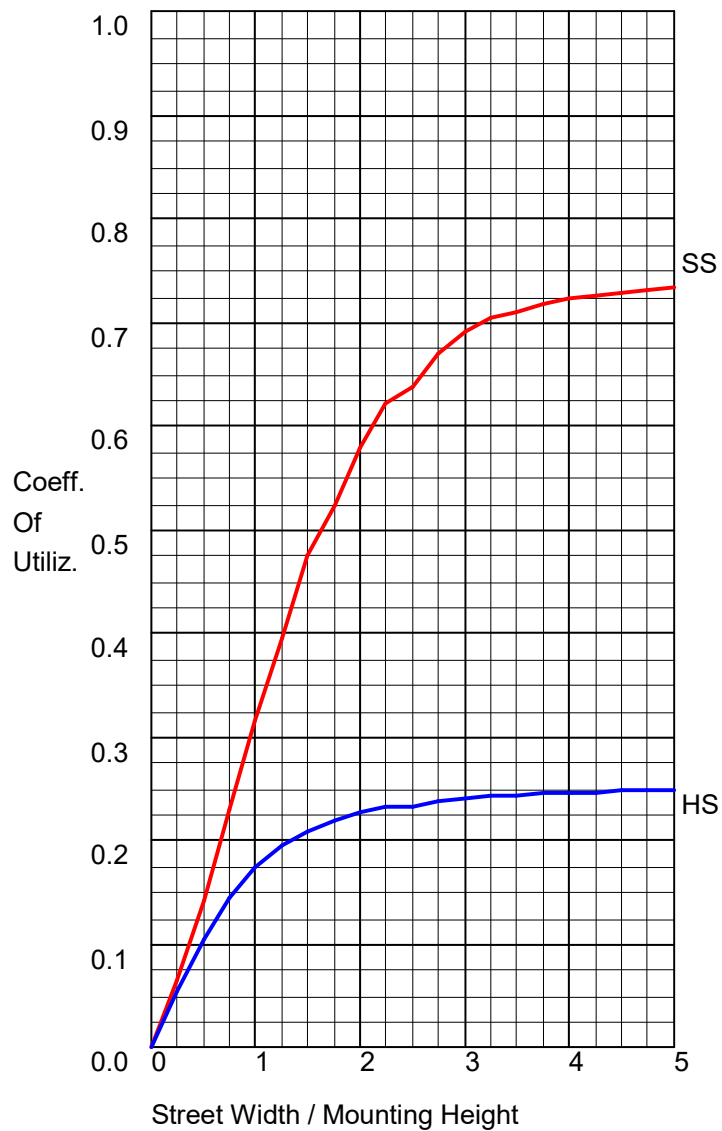
27.5	1436	1437
30.0	1525	1528
32.5	1562	1558
35.0	1575	1569
37.5	1592	1582
40.0	1604	1588
42.5	1514	1481
45.0	1371	1343
47.5	1271	1250
50.0	1191	1172
52.5	1112	1094
55.0	1034	1015
57.5	929	910
60.0	852	827
62.5	796	768
65.0	761	732
67.5	741	709
70.0	726	694
72.5	703	676
75.0	616	591
77.5	431	431
80.0	369	394
82.5	300	326
85.0	214	243
87.5	122	153
90.0	11	15
92.5	0	0
95.0	0	0
97.5	0	0
100.0	1	1
102.5	1	1
105.0	2	1
107.5	1	1
110.0	1	1
112.5	1	1
115.0	2	2
117.5	2	2
120.0	2	2
122.5	2	2
125.0	2	2
127.5	2	2
130.0	2	2
132.5	2	2
135.0	2	2
137.5	1	1
140.0	1	1
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-FT-LED-10L-50.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	1	1

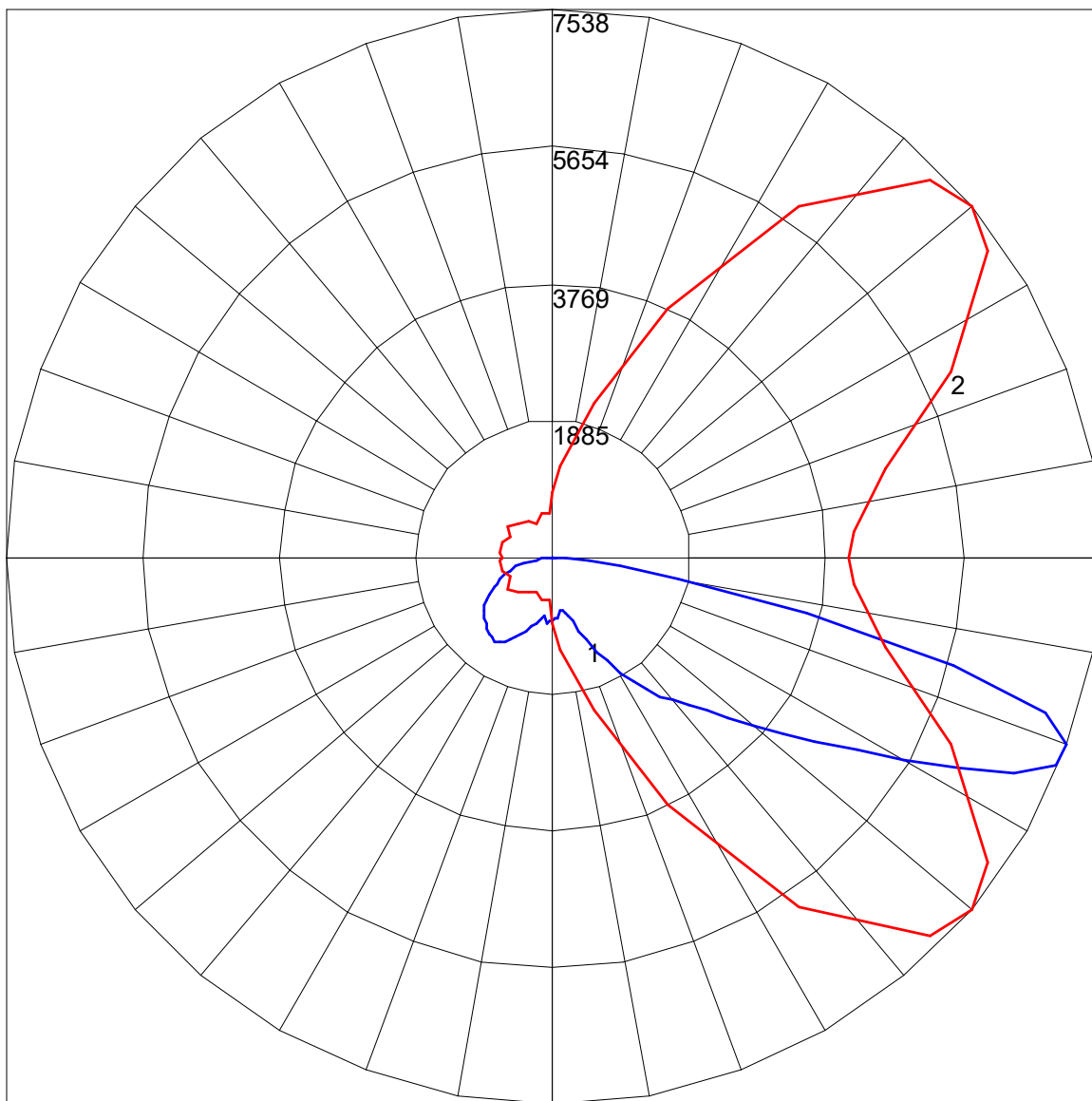
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

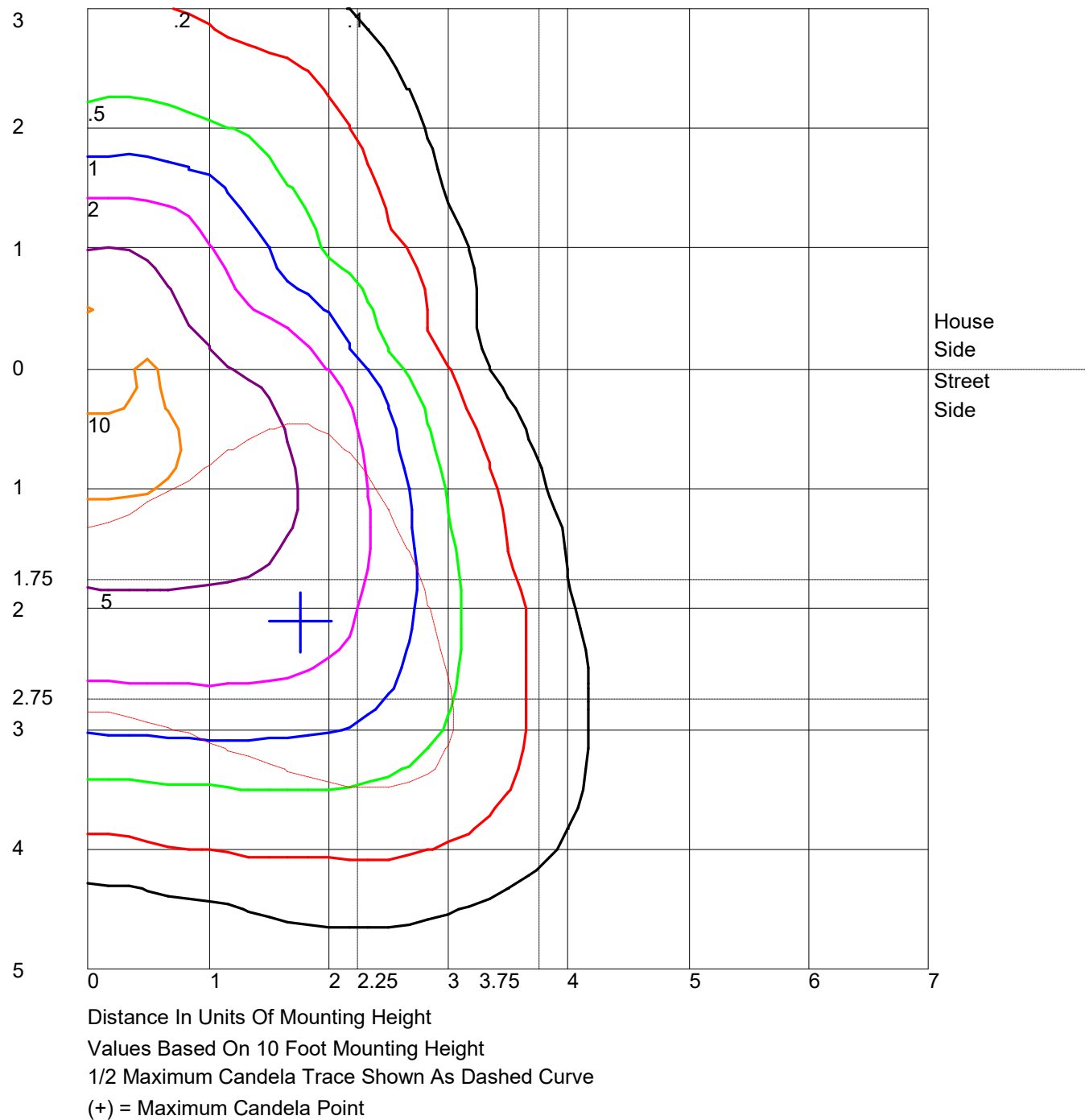
	Lumens	Percent Of Luminaire
Downward Street Side	8087.1	74.5
Downward House Side	2745.9	25.3
Downward Total	10833.0	99.8
Upward Street Side	11.6	0.1
Upward House Side	9.2	0.1
Upward Total	20.8	0.2
Total Flux	10853.8	100.0

POLAR GRAPH

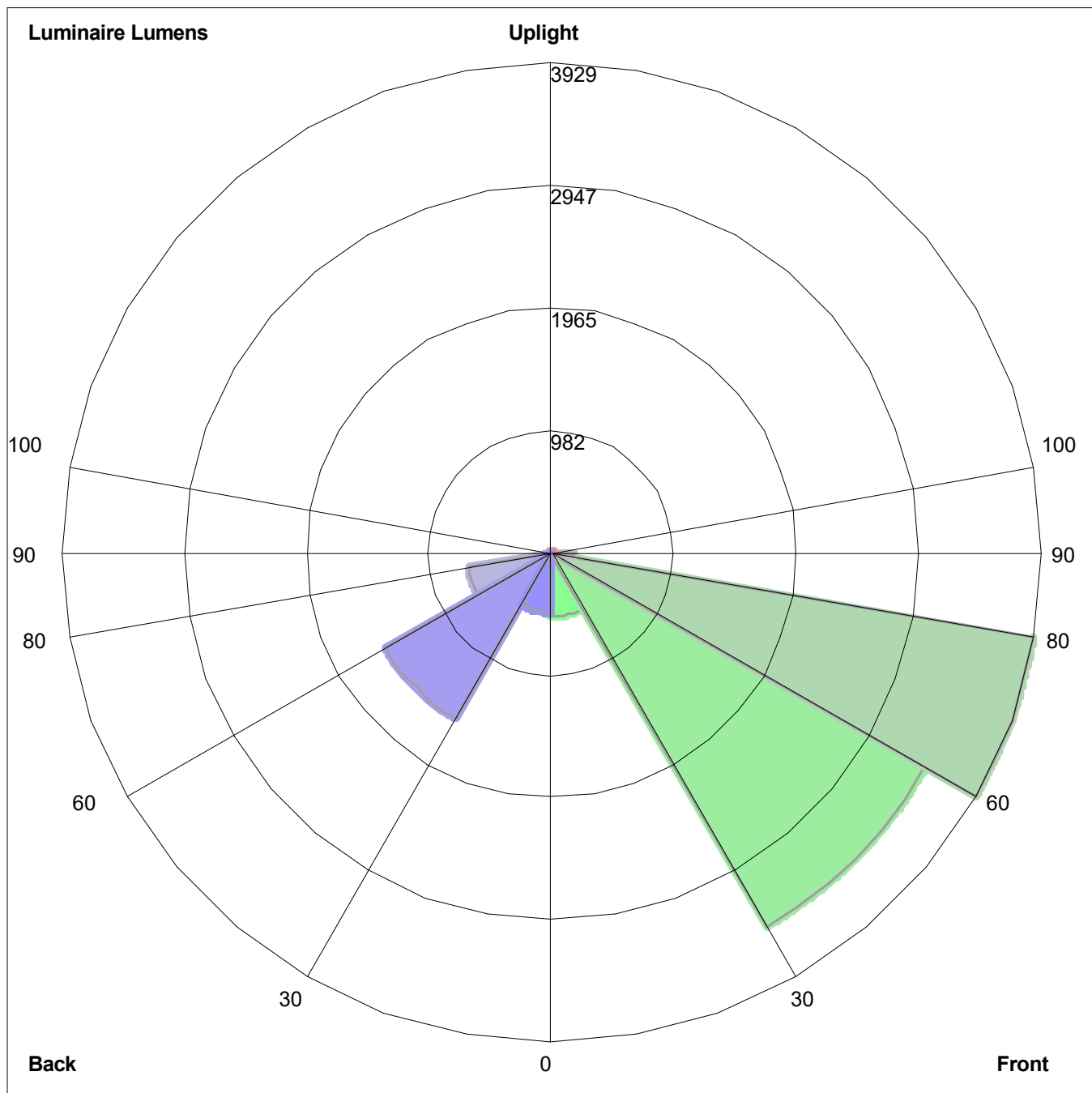


Maximum Candela = 7538 Located At Horizontal Angle = 40, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=515.1, Medium=3463.3, High=3929.1, Very High=179.6
Back: Low=481.5, Medium=1531.8, High=677.1, Very High=55.5
Uplight: Low=6.0, High=14.7

BUG Rating : B2-U2-G2