



IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-FT-LED-10L-40.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-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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10766
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	75
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7477
Maximum Candela Angle	40H 70V
Maximum Candela (<90 Degrees Vertical)	7477
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	1723 (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)	511.0	N.A.	4.7
FM - Front-Medium (30-60)	3435.2	N.A.	31.9
FH - Front-High (60-80)	3897.3	N.A.	36.2
FVH - Front-Very High (80-90)	178.1	N.A.	1.7
BL - Back-Low (0-30)	477.6	N.A.	4.4
BM - Back-Medium (30-60)	1519.4	N.A.	14.1
BH - Back-High (60-80)	671.6	N.A.	6.2
BVH - Back-Very High (80-90)	55.1	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	10766.0	N.A.	100.0
BUG Rating	B2-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	40	45	55	65	75
0.0	870	870	870	870	870	870	870	870	870	870
2.5	861	862	866	862	859	852	848	853	851	849
5.0	796	786	787	790	815	824	850	858	859	848
7.5	738	719	725	732	748	754	759	791	872	858
10.0	744	731	745	751	757	752	765	783	828	933
12.5	767	765	770	767	780	795	819	812	850	949
15.0	840	831	846	833	823	838	849	903	906	1018
17.5	966	932	943	916	933	925	932	976	1029	1091
20.0	1186	1168	1097	1033	1059	1064	1067	1079	1134	1192
22.5	1369	1350	1316	1276	1201	1205	1213	1217	1248	1288
25.0	1618	1629	1543	1480	1424	1426	1363	1368	1376	1409
27.5	1798	1796	1791	1742	1621	1604	1588	1506	1495	1521
30.0	2027	2038	1992	1920	1877	1827	1774	1665	1600	1597
32.5	2157	2170	2191	2170	2063	2027	1987	1814	1707	1660
35.0	2282	2298	2327	2324	2264	2218	2174	2008	1795	1686
37.5	2416	2441	2466	2467	2424	2398	2332	2143	1898	1741
40.0	2587	2598	2621	2624	2601	2556	2502	2315	2013	1807
42.5	2767	2778	2801	2817	2791	2747	2677	2525	2147	1900
45.0	2978	3002	3015	3046	3017	2978	2899	2749	2333	2042
47.5	3217	3247	3281	3324	3305	3248	3166	3013	2566	2222
50.0	3469	3504	3556	3654	3629	3578	3482	3360	2890	2446
52.5	3715	3762	3825	3998	4001	3955	3865	3789	3224	2731
55.0	3898	3957	4075	4334	4395	4385	4340	4321	3676	3065
57.5	4070	4156	4294	4629	4847	4918	4929	4931	4151	3422
60.0	4315	4426	4608	4984	5351	5538	5591	5581	4602	3675
62.5	4567	4705	4929	5424	5972	6249	6293	6154	4939	3811
65.0	4744	4848	5185	5867	6613	6967	6947	6500	5007	3636
67.5	4590	4668	5152	6146	7096	7430	7375	6421	4633	3071
70.0	4039	4117	4696	6016	7273	7477	7312	5836	3733	2172
72.5	2898	2968	3648	5074	6919	7072	6751	4639	2427	1199
75.0	1405	1488	2160	3473	5339	5667	5245	3026	1367	746
77.5	658	707	1089	1835	3147	3543	3298	1740	873	491
80.0	350	385	705	1110	1460	1723	1710	1066	532	299
82.5	236	261	478	711	839	928	943	540	323	165
85.0	173	193	349	478	569	495	373	223	157	95
87.5	112	124	228	221	277	183	69	75	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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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	870	870	870	870	870	870	870	870	870	870
2.5	855	857	850	854	865	866	867	877	885	896
5.0	838	830	840	855	875	892	913	883	856	858
7.5	847	845	851	864	911	852	819	814	812	811
10.0	879	859	879	943	892	850	832	850	849	852
12.5	955	928	953	996	917	884	894	893	892	916
15.0	1019	1003	1022	1052	952	962	938	938	953	972
17.5	1117	1089	1099	1118	1034	1018	994	1016	1029	1040
20.0	1242	1209	1216	1183	1111	1078	1072	1074	1074	1111
22.5	1347	1328	1344	1254	1174	1135	1135	1130	1174	1210
25.0	1467	1428	1453	1326	1227	1199	1175	1217	1242	1294
27.5	1576	1514	1530	1367	1278	1235	1238	1273	1342	1390
30.0	1629	1575	1592	1415	1295	1280	1297	1356	1396	1459
32.5	1642	1572	1594	1401	1315	1296	1352	1385	1474	1537
35.0	1650	1567	1583	1382	1302	1326	1378	1430	1499	1561
37.5	1666	1568	1574	1350	1275	1324	1371	1418	1505	1580
40.0	1700	1581	1573	1328	1239	1304	1349	1401	1506	1610
42.5	1755	1609	1581	1289	1195	1279	1319	1377	1521	1637
45.0	1837	1660	1606	1266	1157	1241	1271	1345	1562	1551
47.5	1969	1750	1667	1252	1101	1190	1221	1309	1583	1415
50.0	2147	1872	1744	1249	1045	1143	1162	1288	1497	1300
52.5	2376	2030	1835	1255	984	1085	1105	1275	1378	1203
55.0	2623	2185	1930	1264	933	1028	1052	1228	1265	1116
57.5	2834	2315	2003	1259	875	969	992	1152	1150	1012
60.0	2946	2377	1982	1240	819	912	925	1069	1009	920
62.5	2901	2297	1786	1186	749	839	864	964	900	856
65.0	2599	1973	1391	1052	680	767	793	889	810	805
67.5	2021	1473	940	853	603	685	724	829	730	761
70.0	1267	903	590	625	513	592	660	757	658	717
72.5	644	480	400	452	426	503	586	663	586	662
75.0	429	304	273	329	328	405	499	557	496	554
77.5	272	184	176	225	247	316	402	409	322	340

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CANDELA TABULATION - (Cont.)

80.0	148	107	122	163	191	246	267	220	192	229
82.5	94	70	85	118	144	141	145	163	131	163
85.0	58	38	51	77	74	77	91	94	66	103
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	870	870
2.5	894	892
5.0	856	864
7.5	823	814
10.0	841	855
12.5	914	915
15.0	975	979
17.5	1056	1077
20.0	1164	1174
22.5	1254	1263
25.0	1342	1361

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CANDELA TABULATION - (Cont.)

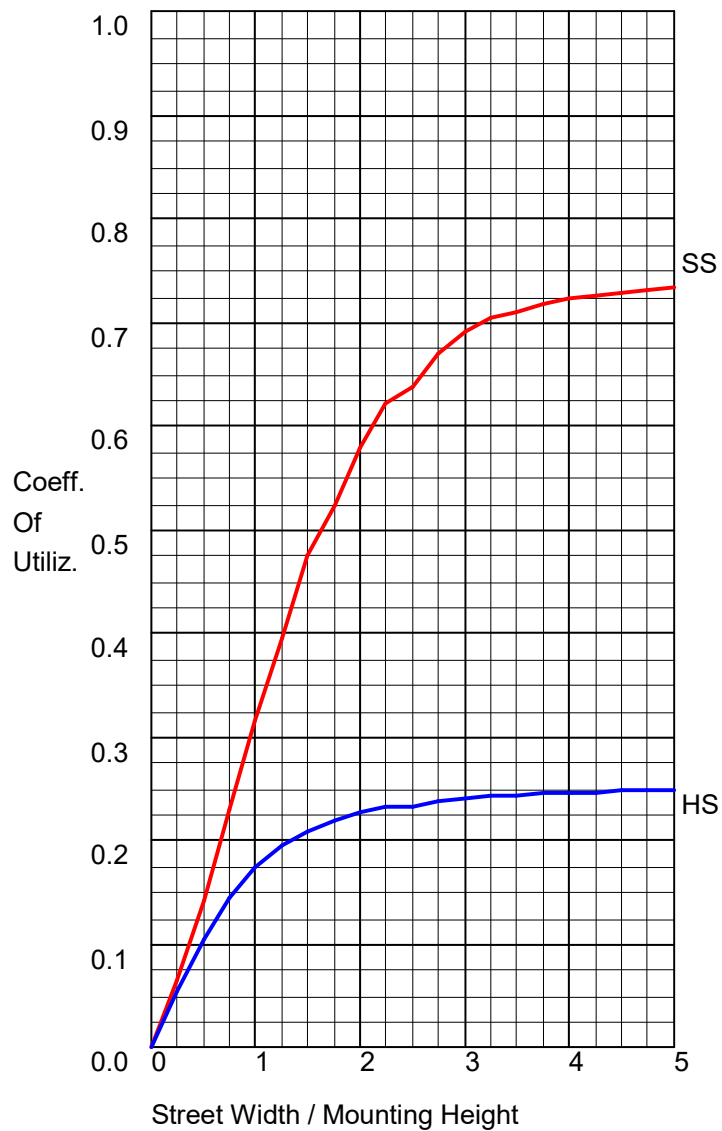
27.5	1424	1425
30.0	1513	1516
32.5	1549	1545
35.0	1562	1556
37.5	1579	1569
40.0	1591	1575
42.5	1502	1469
45.0	1360	1332
47.5	1261	1240
50.0	1181	1163
52.5	1103	1085
55.0	1026	1007
57.5	921	903
60.0	845	820
62.5	790	762
65.0	755	726
67.5	735	703
70.0	720	688
72.5	697	671
75.0	611	586
77.5	428	428
80.0	366	391
82.5	298	323
85.0	212	241
87.5	121	152
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

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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	1	1

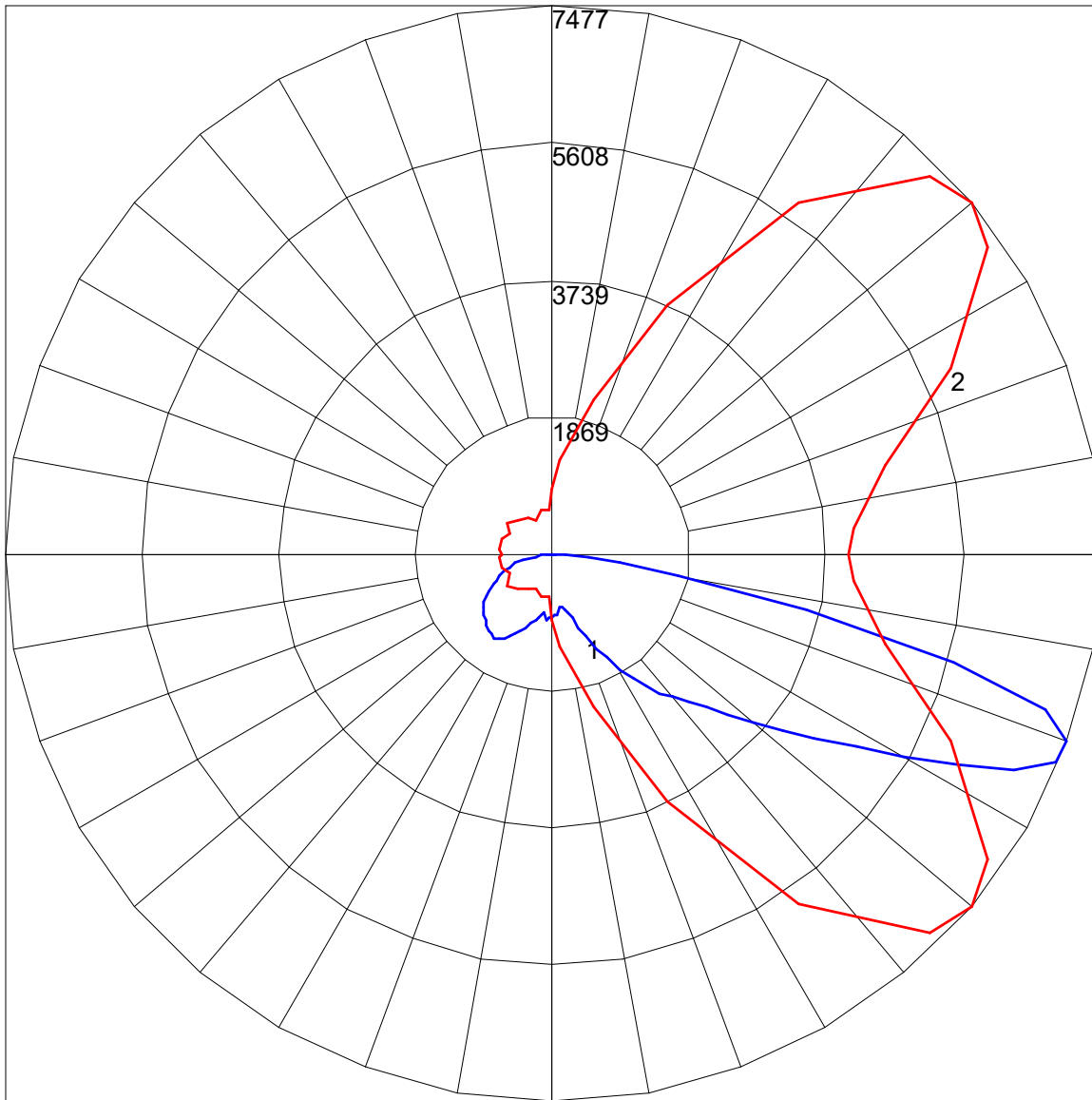
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

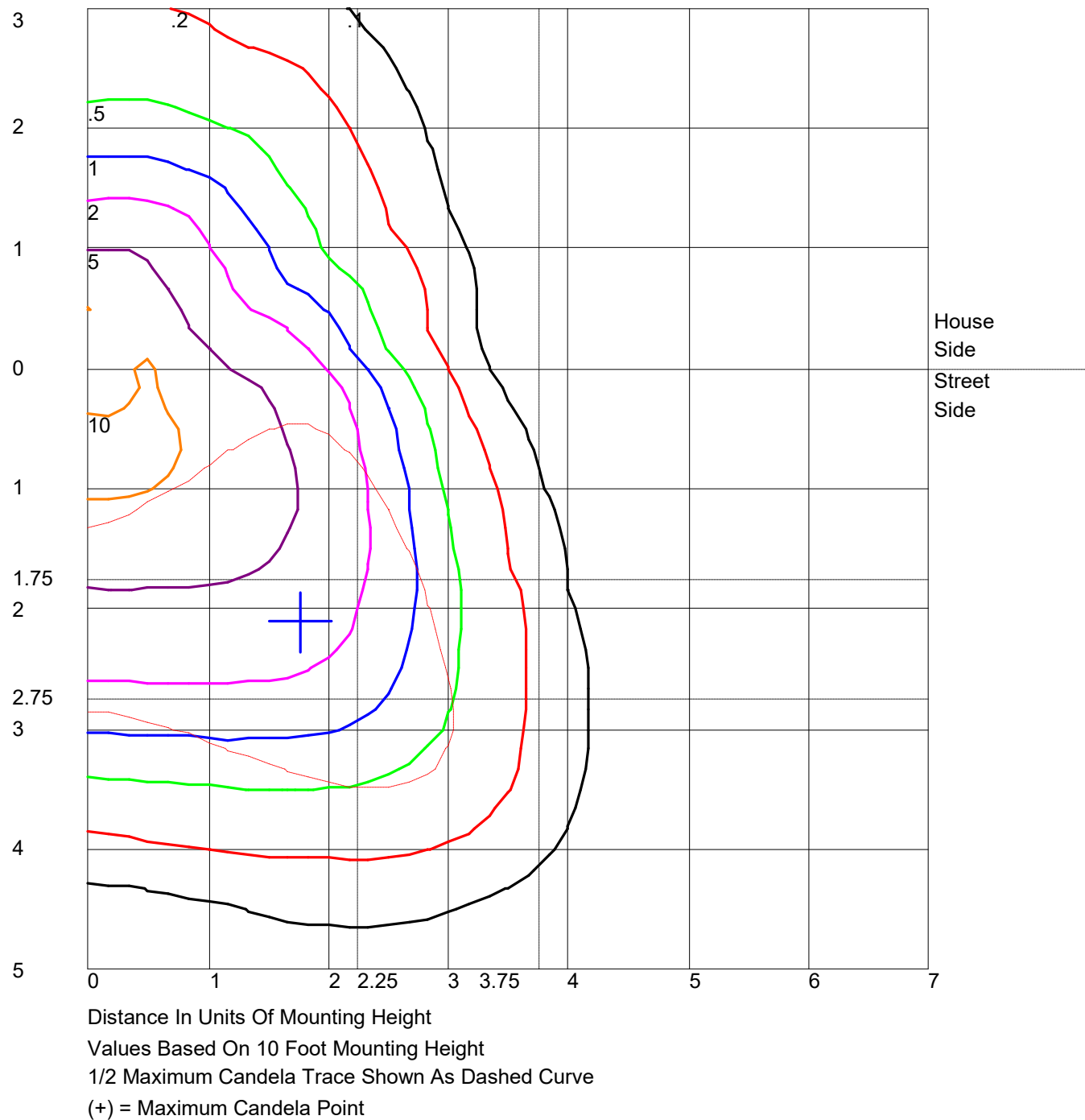
	Lumens	Percent Of Luminaire
Downward Street Side	8021.6	74.5
Downward House Side	2723.7	25.3
Downward Total	10745.3	99.8
Upward Street Side	11.6	0.1
Upward House Side	9.2	0.1
Upward Total	20.8	0.2
Total Flux	10766.1	100.0

POLAR GRAPH

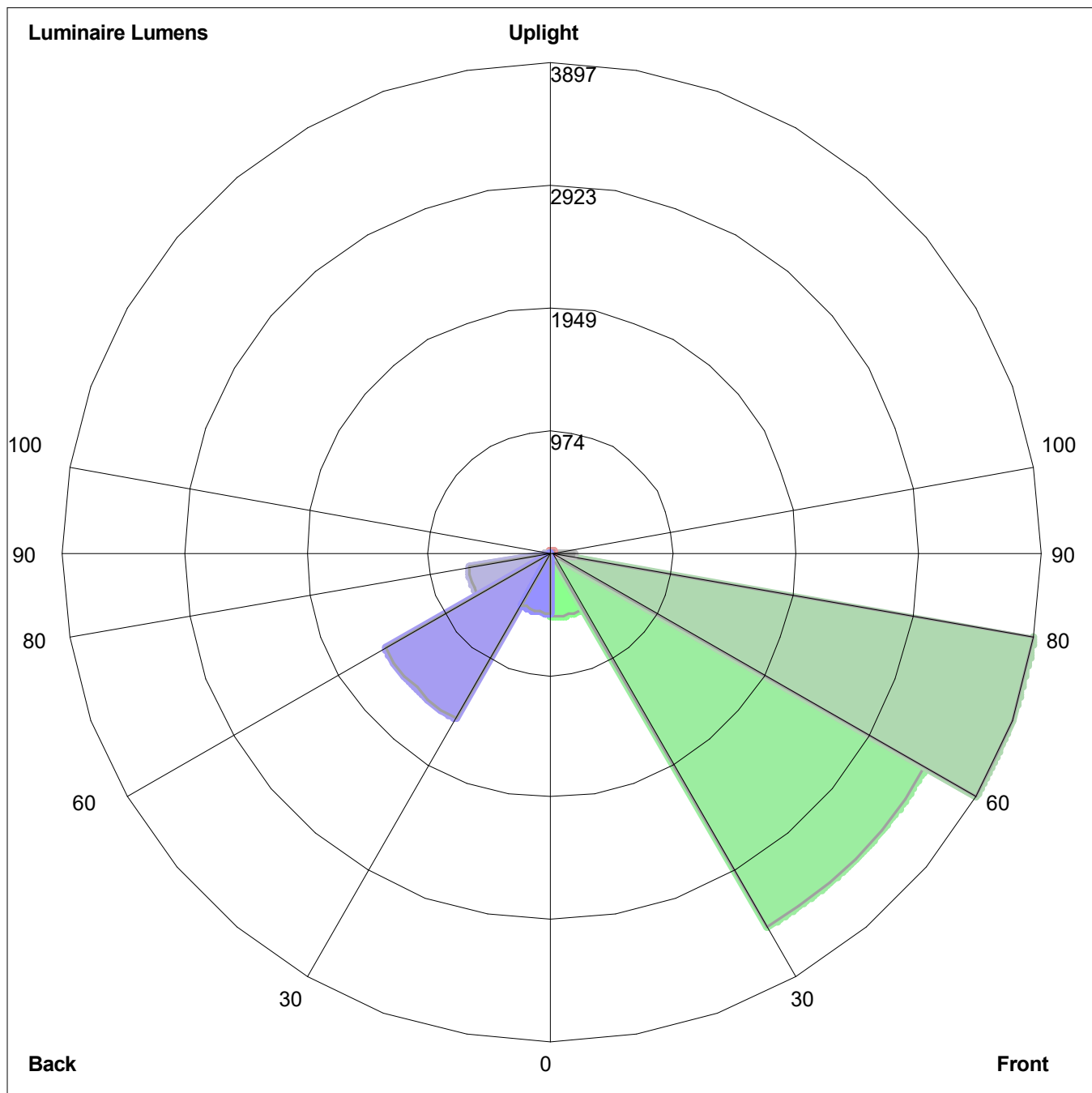


Maximum Candela = 7477 Located At Horizontal Angle = 40, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=511.0, Medium=3435.2, High=3897.3, Very High=178.1
Back: Low=477.6, Medium=1519.4, High=671.6, Very High=55.1
Uplight: Low=6.0, High=14.7

BUG Rating : B2-U2-G2