



IES ROAD REPORT

PHOTOMETRIC FILENAME : XCN4-PT-3-LED-25L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13255
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/07/22
[TEST DATE] 02/14/22
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] XCN4-PT-3-LED-25L-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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	28452
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	232
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	26538
Maximum Candela Angle	52.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	26538
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 67.5V
Maximum Candela At 90 Degrees Vertical	164 (0.6% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1862 (6.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-3-LED-25L-40.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	920.5	N.A.	3.2
FM - Front-Medium (30-60)	11441.2	N.A.	40.2
FH - Front-High (60-80)	8959.2	N.A.	31.5
FVH - Front-Very High (80-90)	236.5	N.A.	0.8
BL - Back-Low (0-30)	902.9	N.A.	3.2
BM - Back-Medium (30-60)	3977.0	N.A.	14.0
BH - Back-High (60-80)	1782.2	N.A.	6.3
BVH - Back-Very High (80-90)	171.0	N.A.	0.6
UL - Uplight-Low (90-100)	22.0	N.A.	0.1
UH - Uplight-High (100-180)	39.6	N.A.	0.1
Total	28452.1	N.A.	100.0
BUG Rating	B3-U2-G4		

IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-3-LED-25L-40.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	45.0	52.5	55.0	65.0	75.0
0.0	1346	1346	1346	1346	1346	1346	1346	1346	1346	1346
2.5	1367	1368	1361	1361	1354	1344	1340	1340	1330	1327
5.0	1318	1312	1309	1319	1340	1366	1381	1374	1350	1320
7.5	1268	1282	1275	1268	1266	1272	1275	1296	1376	1333
10.0	1312	1312	1337	1308	1305	1312	1306	1326	1356	1441
12.5	1376	1374	1380	1366	1383	1416	1394	1405	1424	1502
15.0	1505	1485	1496	1473	1478	1505	1529	1550	1510	1586
17.5	1698	1642	1667	1655	1661	1649	1659	1683	1658	1678
20.0	1974	1940	1878	1835	1870	1885	1889	1880	1863	1820
22.5	2275	2246	2235	2217	2137	2168	2180	2168	2124	2048
25.0	2693	2670	2626	2590	2645	2623	2619	2614	2554	2435
27.5	3218	3175	3213	3247	3290	3352	3239	3229	3221	3046
30.0	3920	3959	3930	4025	4209	4209	4086	4073	4074	3684
32.5	4707	4747	4852	5090	5204	5283	5162	5022	4813	4304
35.0	5462	5514	5725	6068	6292	6416	6212	6083	5515	4844
37.5	6194	6254	6562	7001	7360	7545	7240	6997	6236	5332
40.0	6837	6945	7315	7956	8414	8526	8160	7869	6796	5776
42.5	7563	7695	8134	8917	9510	9493	9076	8740	7390	6212
45.0	8678	8713	9211	10084	10571	10398	9927	9534	7910	6620
47.5	10148	10177	10710	11532	11778	11297	10660	10240	8432	7077
50.0	12134	12139	12648	13348	13233	12268	11384	10893	8930	7761
52.5	14651	14635	15047	15445	15069	13491	12285	11654	9686	8872
55.0	16995	17153	17584	17899	17079	14918	13339	12717	10900	10446
57.5	17962	18114	18832	19777	19436	16893	15349	14642	13058	12125
60.0	16581	16767	18451	20185	21364	19810	18799	18335	15431	13647
62.5	10388	10917	13536	18154	21930	22869	23018	22301	17560	14590
65.0	4769	5051	6770	11530	18807	23777	26307	25642	18606	14774
67.5	2619	2748	3326	5131	11971	21038	26538	26535	18971	13050
70.0	1578	1651	2023	3001	5617	14814	22644	24001	16738	8610
72.5	1025	1075	1388	2041	3543	7841	15475	17255	10160	3691
75.0	737	776	1038	1588	2549	3992	7956	9131	4220	1323
77.5	533	551	784	1318	2116	2503	3351	3971	1878	718
80.0	362	374	590	1031	1779	1693	1643	1862	1007	443
82.5	251	269	424	712	1302	1078	864	851	620	332
85.0	206	218	309	526	665	547	410	404	370	226
87.5	206	245	213	336	335	153	166	180	159	130
90.0	51	80	57	52	42	40	45	47	49	44
92.5	7	7	8	10	14	27	38	41	47	41
95.0	4	4	6	7	11	23	34	37	42	40
97.5	4	3	4	7	10	20	27	30	37	35
100.0	4	3	4	7	8	13	18	20	27	28
102.5	3	3	4	7	7	8	10	11	18	21
105.0	3	3	4	6	7	7	8	8	10	13
107.5	3	3	4	6	6	7	7	7	8	10
110.0	3	3	4	6	6	6	7	7	7	8
112.5	3	3	4	6	6	6	7	6	7	8
115.0	3	3	4	6	6	6	6	6	7	8
117.5	3	3	4	6	6	6	6	6	7	7
120.0	3	3	4	6	6	6	6	7	7	8
122.5	4	3	4	6	6	6	7	7	7	8
125.0	4	4	4	6	6	6	7	7	7	7
127.5	4	4	4	6	6	7	7	7	7	8
130.0	6	4	4	6	6	7	7	7	7	8

IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-3-LED-25L-40.IES

CANDELA TABULATION - (Cont.)

132.5	6	6	6	6	7	7	7	7	7	8
135.0	7	6	6	7	7	7	7	7	8	8
137.5	7	6	6	7	7	7	7	7	8	8
140.0	7	7	6	7	7	7	7	7	8	8
142.5	7	6	6	6	6	6	7	6	7	7
145.0	4	3	4	4	4	4	4	4	6	6
147.5	1	1	3	3	3	3	3	3	4	6
150.0	1	1	3	3	3	3	3	3	4	4
152.5	1	1	3	3	3	3	3	3	4	4
155.0	1	1	3	3	3	3	3	3	3	4
157.5	1	1	1	3	3	3	3	3	3	4
160.0	1	1	1	3	3	3	3	3	3	4
162.5	1	1	1	3	3	1	3	3	3	3
165.0	1	1	1	3	3	3	3	3	3	4
167.5	1	1	1	3	3	3	3	3	3	4
170.0	1	1	3	3	3	3	3	3	3	4
172.5	1	1	3	3	3	3	3	3	4	4
175.0	0	1	1	3	3	3	3	3	4	4
177.5	0	1	1	3	3	3	3	3	4	4
180.0	3	3	3	3	3	3	3	3	3	3

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	1346	1346	1346	1346	1346	1346	1346	1346	1346	1346
2.5	1336	1342	1337	1329	1349	1368	1381	1397	1400	1397
5.0	1302	1316	1316	1335	1380	1451	1461	1402	1381	1385
7.5	1315	1313	1327	1383	1459	1384	1363	1390	1404	1428
10.0	1364	1340	1374	1502	1459	1442	1472	1523	1556	1546
12.5	1454	1431	1466	1573	1520	1574	1617	1645	1638	1691
15.0	1530	1507	1567	1641	1625	1723	1737	1753	1808	1889
17.5	1638	1590	1638	1716	1761	1824	1863	1950	2030	2071
20.0	1771	1699	1719	1794	1897	1947	2031	2131	2239	2339
22.5	1946	1832	1845	1882	2018	2106	2193	2355	2550	2672
25.0	2246	2072	2012	1998	2129	2245	2364	2651	2862	2998
27.5	2713	2354	2228	2072	2265	2364	2592	2906	3303	3380
30.0	3124	2668	2439	2164	2312	2499	2783	3251	3691	3867
32.5	3480	2883	2581	2183	2371	2592	2944	3504	4281	4510
35.0	3803	3079	2693	2173	2358	2676	3045	3792	4850	5192
37.5	4100	3256	2794	2154	2323	2695	3056	3892	5434	5860
40.0	4379	3423	2889	2136	2299	2711	3035	3935	6115	6331
42.5	4652	3577	2971	2130	2252	2682	2971	3900	6765	6428
45.0	4963	3746	3055	2117	2197	2636	2924	3811	7276	6101
47.5	5397	3954	3147	2124	2141	2580	2869	3645	7216	5765
50.0	6047	4248	3261	2134	2073	2515	2809	3496	6766	5441
52.5	6879	4576	3358	2124	2002	2435	2724	3313	6064	5107
55.0	7703	4944	3473	2089	1915	2320	2642	3099	5276	4785
57.5	8521	5402	3571	1997	1814	2168	2501	2883	4486	4456
60.0	9417	5773	3408	1859	1699	1999	2329	2673	3738	4105
62.5	10201	5692	2860	1683	1612	1825	2144	2444	3082	3805
65.0	9897	4968	2180	1506	1510	1659	1932	2238	2605	3499
67.5	7520	3488	1610	1323	1405	1522	1741	2085	2256	3121
70.0	4117	1846	1076	1102	1238	1347	1564	1915	1985	2695
72.5	1330	791	684	872	1054	1158	1370	1702	1741	2221
75.0	701	495	522	705	881	997	1174	1387	1370	1700
77.5	383	321	404	569	726	855	987	764	761	1082

IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-3-LED-25L-40.IES

CANDELA TABULATION - (Cont.)

80.0	282	245	326	467	587	621	699	522	448	641
82.5	211	177	257	377	453	355	376	364	300	441
85.0	142	113	187	284	251	227	220	203	162	305
87.5	77	52	122	149	130	113	95	111	85	170
90.0	30	10	35	33	30	27	23	47	20	48
92.5	28	10	21	20	20	17	14	8	6	1
95.0	28	11	21	21	21	18	16	10	6	3
97.5	27	11	21	21	21	20	16	10	6	3
100.0	23	11	18	20	21	20	17	10	7	3
102.5	18	10	16	18	20	18	17	11	7	4
105.0	13	10	14	16	18	18	16	11	7	4
107.5	11	10	13	14	17	17	16	11	7	4
110.0	10	10	11	13	16	16	14	11	7	4
112.5	10	10	11	13	14	14	14	11	8	4
115.0	10	10	11	13	14	14	13	11	8	4
117.5	10	10	11	13	14	14	13	10	7	4
120.0	10	10	11	13	14	14	13	10	8	4
122.5	10	10	11	13	14	16	14	11	8	6
125.0	10	10	11	13	16	16	14	11	8	6
127.5	10	10	11	13	16	16	16	11	8	6
130.0	10	10	11	13	16	16	14	11	8	6
132.5	10	10	11	13	14	16	14	11	8	6
135.0	10	10	11	13	14	14	13	10	8	6
137.5	8	10	10	11	13	13	13	10	7	4
140.0	8	10	10	11	13	13	11	8	7	4
142.5	8	8	10	10	11	11	10	8	6	3
145.0	7	8	8	8	10	10	8	6	4	1
147.5	7	7	7	8	8	8	7	4	1	0
150.0	6	7	7	7	8	7	6	4	1	0
152.5	6	7	7	7	7	7	6	3	1	0
155.0	6	7	7	7	7	7	6	3	0	0
157.5	6	6	6	7	7	6	4	3	0	0
160.0	6	6	6	6	6	6	4	1	0	0
162.5	4	6	6	6	6	4	4	1	0	0
165.0	4	6	6	6	6	4	4	1	0	0
167.5	4	6	6	6	6	6	4	1	0	0
170.0	6	6	6	6	6	6	4	1	0	0
172.5	6	6	6	6	6	6	4	1	0	0
175.0	4	6	6	6	6	6	4	1	0	0
177.5	4	6	6	6	6	4	4	1	0	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	1346	1346
2.5	1391	1384
5.0	1381	1390
7.5	1441	1438
10.0	1571	1547
12.5	1686	1698
15.0	1883	1882
17.5	2110	2133
20.0	2421	2445
22.5	2724	2692
25.0	3038	3063

IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-3-LED-25L-40.IES

CANDELA TABULATION - (Cont.)

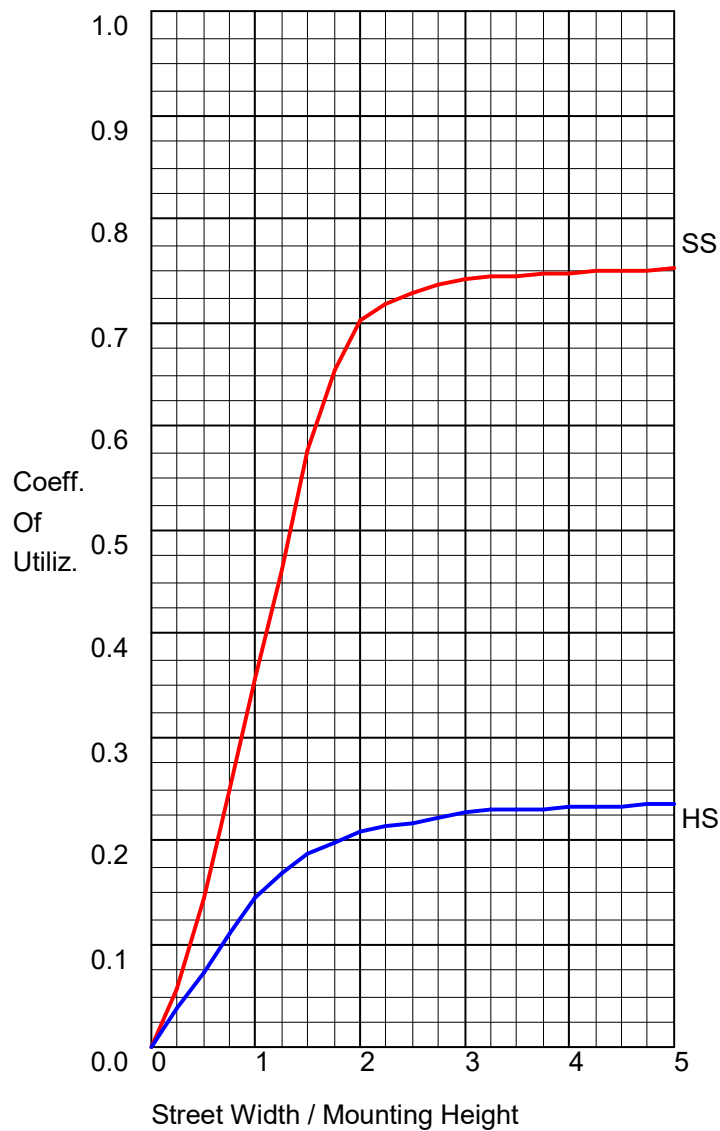
27.5	3347	3323
30.0	3784	3747
32.5	4245	4157
35.0	4671	4545
37.5	4843	4663
40.0	4683	4416
42.5	4159	3903
45.0	3796	3557
47.5	3541	3320
50.0	3367	3141
52.5	3245	2986
55.0	3163	2860
57.5	3106	2760
60.0	3094	2703
62.5	3171	2770
65.0	3256	2886
67.5	3292	3034
70.0	3198	3137
72.5	2771	2836
75.0	1956	2187
77.5	1553	1804
80.0	1187	1377
82.5	878	939
85.0	684	730
87.5	1028	1206
90.0	138	164
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	1	0
110.0	1	0
112.5	1	0
115.0	1	0
117.5	1	1
120.0	1	1
122.5	3	1
125.0	3	3
127.5	4	3
130.0	4	3
132.5	4	4
135.0	4	3
137.5	3	3
140.0	3	3
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-3-LED-25L-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	3	3

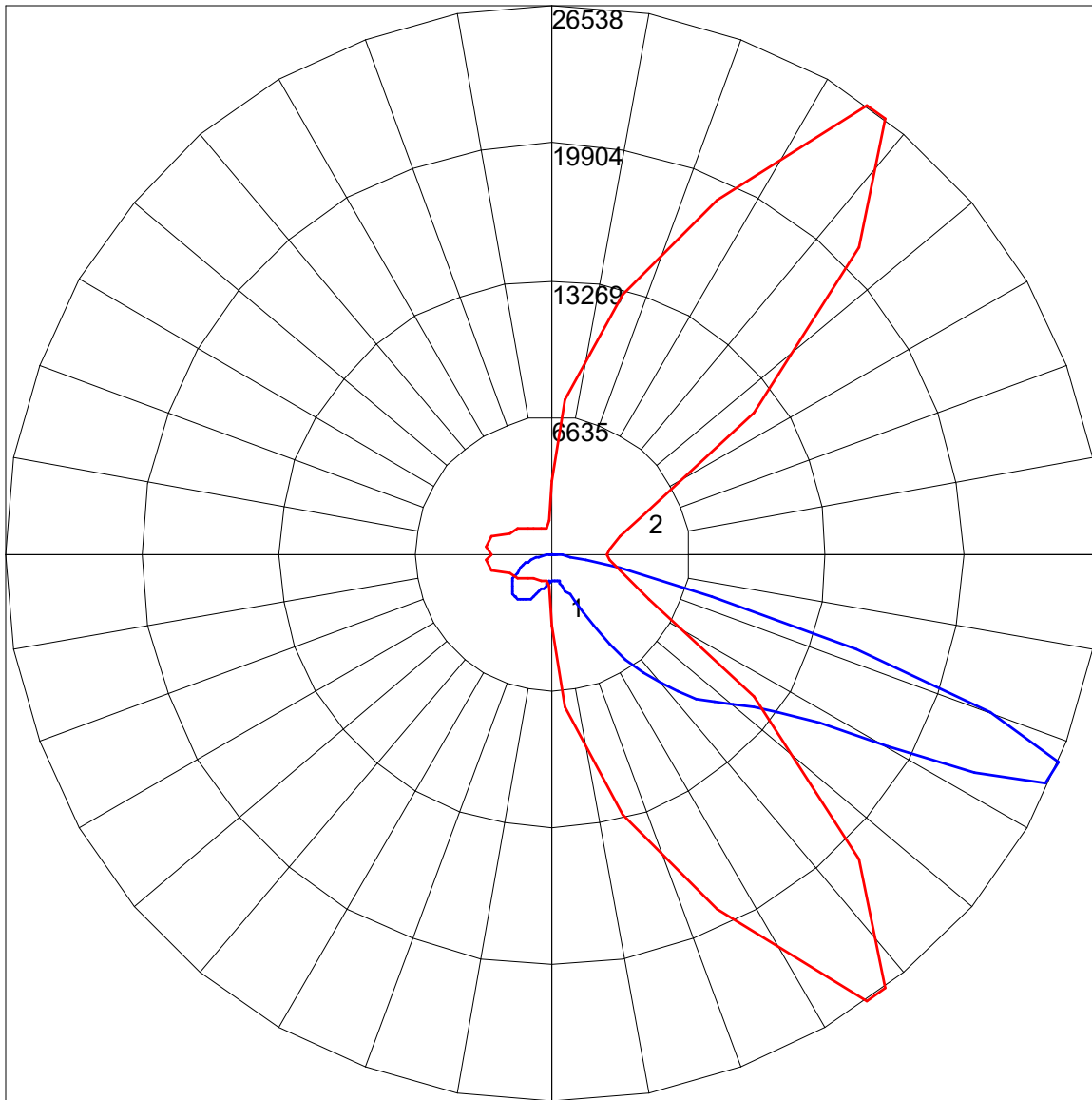
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

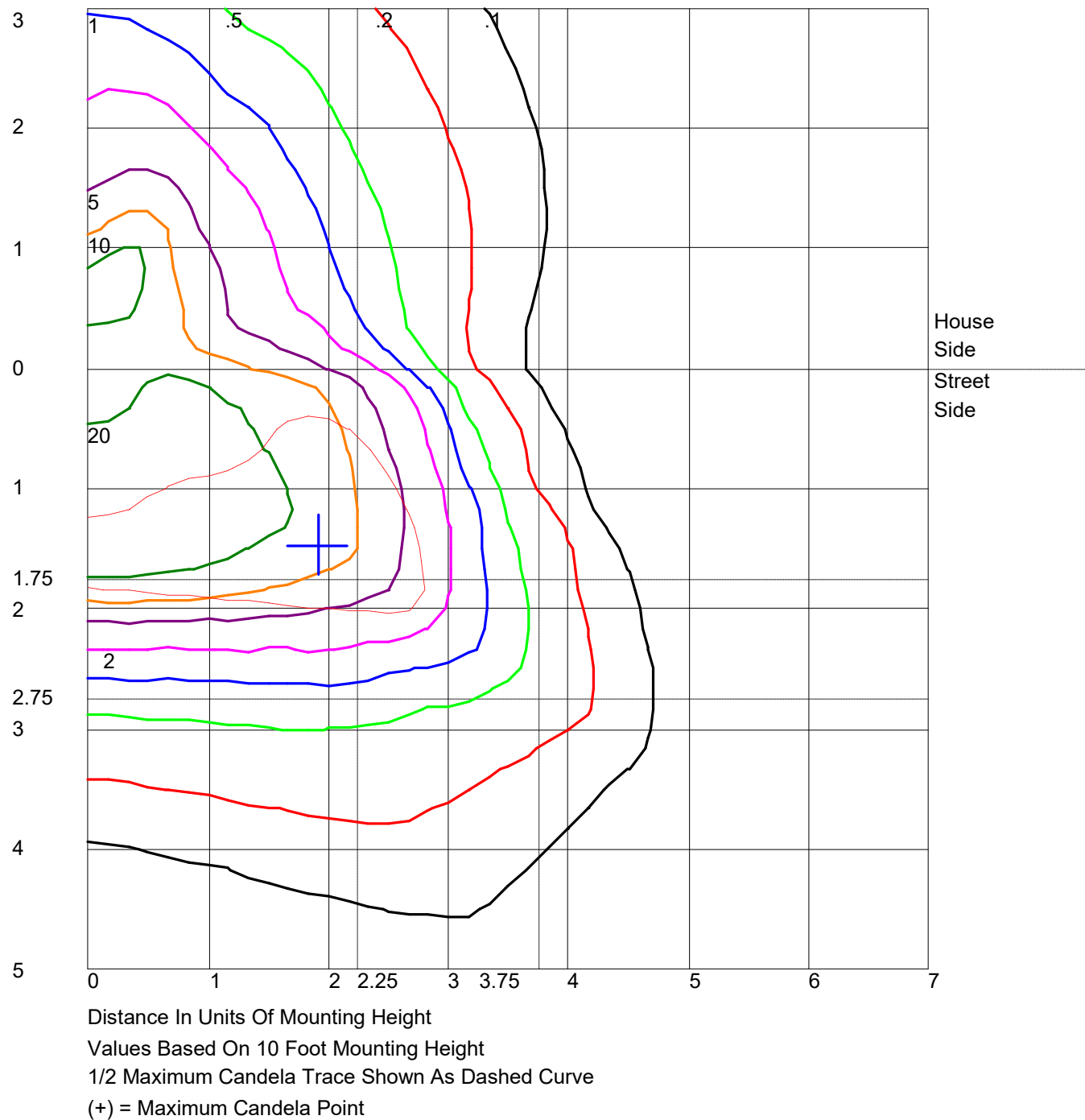
	Lumens	Percent Of Luminaire
Downward Street Side	21557.3	75.8
Downward House Side	6833.1	24.0
Downward Total	28390.4	99.8
Upward Street Side	29.4	0.1
Upward House Side	32.2	0.1
Upward Total	61.6	0.2
Total Flux	28452.0	100.0

POLAR GRAPH

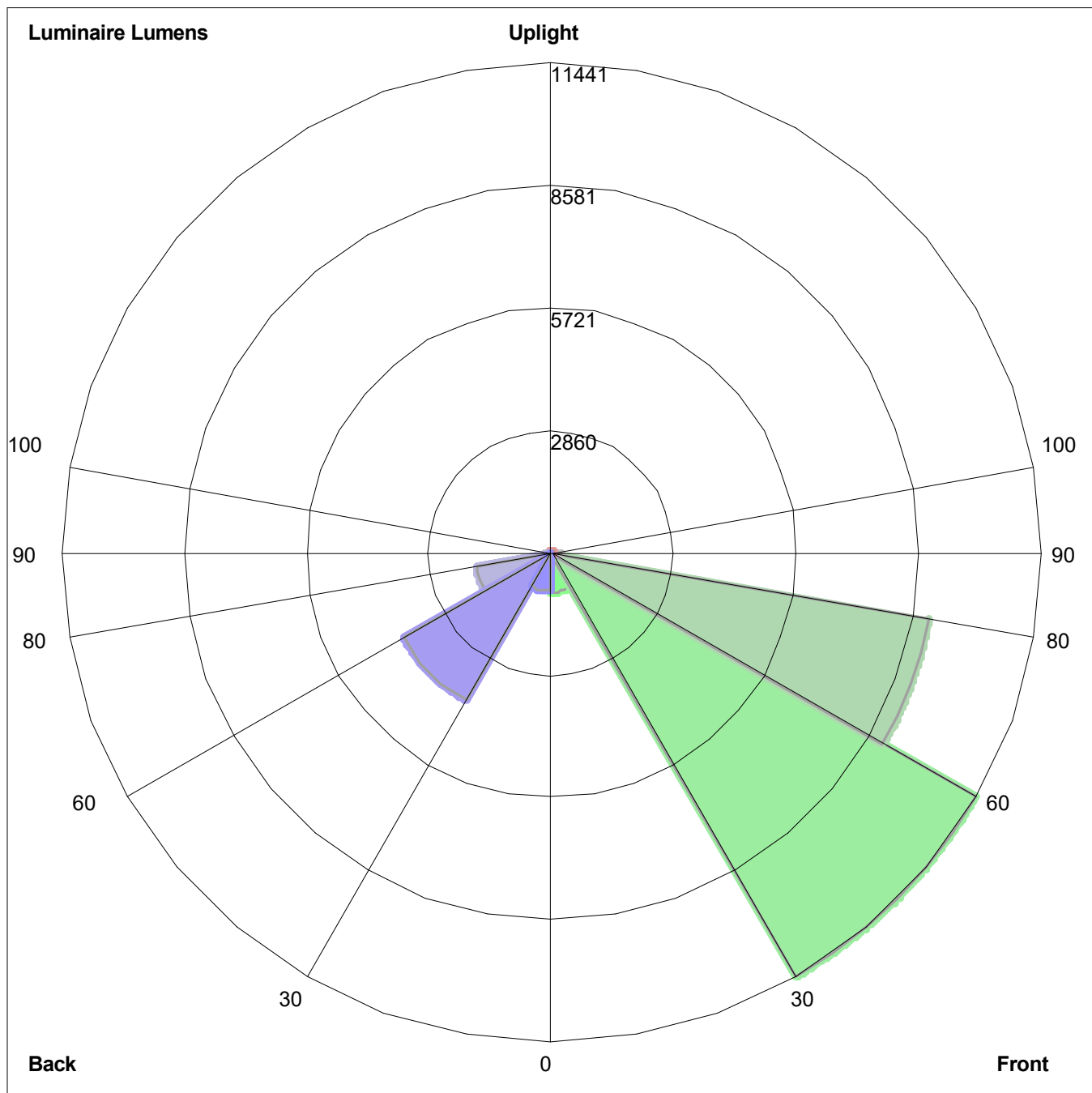


Maximum Candela = 26538 Located At Horizontal Angle = 52.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=920.5, Medium=11441.2, High=8959.2, Very High=236.5
Back: Low=902.9, Medium= 3977.0, High=1782.2, Very High=171.0
Uplight: Low=22.0, High=39.6

BUG Rating : B3-U2-G4