



IES ROAD REPORT

PHOTOMETRIC FILENAME : XCN4-PT-2-LED-25L-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
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] XCN4-PT-2-LED-25L-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	27395
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	232
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	22140
Maximum Candela Angle	77.5H 65V
Maximum Candela (<90 Degrees Vertical)	22140
Maximum Candela Angle (<90 Degrees Vertical)	77.5H 65V
Maximum Candela At 90 Degrees Vertical	44 (0.2% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1447 (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)	1572.1	N.A.	5.7
FM - Front-Medium (30-60)	10621.7	N.A.	38.8
FH - Front-High (60-80)	5434.0	N.A.	19.8
FVH - Front-Very High (80-90)	141.0	N.A.	0.5
BL - Back-Low (0-30)	1380.6	N.A.	5.0
BM - Back-Medium (30-60)	5934.3	N.A.	21.7
BH - Back-High (60-80)	2078.7	N.A.	7.6
BVH - Back-Very High (80-90)	207.2	N.A.	0.8
UL - Uplight-Low (90-100)	11.9	N.A.	0.0
UH - Uplight-High (100-180)	13.0	N.A.	0.0
Total	27394.5	N.A.	100.0
BUG Rating	B4-U2-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	77.5
0.0	2397	2397	2397	2397	2397	2397	2397	2397	2397	2397
2.5	2567	2538	2514	2469	2428	2391	2369	2339	2343	2342
5.0	2442	2451	2418	2407	2476	2528	2510	2495	2370	2357
7.5	2476	2466	2437	2475	2390	2400	2397	2572	2468	2421
10.0	2610	2582	2643	2574	2540	2523	2489	2562	2722	2661
12.5	2729	2757	2756	2718	2708	2760	2659	2715	2818	2865
15.0	2984	2978	3030	2960	2883	2931	2988	2926	3094	3152
17.5	3246	3176	3231	3197	3258	3193	3255	3304	3357	3436
20.0	3611	3580	3480	3391	3495	3574	3587	3690	3751	3776
22.5	3813	3792	3786	3786	3692	3850	3942	4099	4097	4172
25.0	4234	4258	4191	4049	4094	4124	4390	4592	4663	4722
27.5	4595	4627	4596	4567	4397	4561	4738	5068	5279	5355
30.0	5152	5198	5092	4948	4954	4938	5087	5607	5922	5991
32.5	5562	5622	5658	5649	5410	5440	5545	6097	6525	6534
35.0	6207	6216	6240	6195	6032	5960	6034	6472	7036	7063
37.5	6989	7046	7005	6893	6668	6520	6462	6872	7639	7677
40.0	7916	7985	7980	7792	7522	7232	7046	7153	8233	8299
42.5	8872	8958	8985	8924	8579	8124	7714	7499	8798	8924
45.0	9614	9711	9830	10038	9758	9250	8552	7868	9365	9592
47.5	9878	9974	10237	10678	10766	10596	9790	8436	10025	10401
50.0	9578	9655	9973	10658	11312	11946	11482	9406	10944	11450
52.5	8703	8701	9088	9925	11088	12792	13394	10795	12247	13024
55.0	7272	7219	7593	8520	10025	12743	15333	12589	13824	14842
57.5	5105	5239	5569	6453	8127	11570	16533	14998	15719	16891
60.0	3263	3357	3557	4182	5618	9118	16751	17504	17712	18943
62.5	2209	2216	2285	2619	3422	5737	15575	18858	19855	21009
65.0	1623	1628	1673	1874	2194	3198	12412	18536	20998	22140
67.5	1223	1240	1280	1413	1661	2075	8131	16150	20242	21165
70.0	940	968	979	1107	1313	1531	4517	11851	16477	16344
72.5	680	717	704	838	1042	1210	2444	7371	9571	8513
75.0	404	428	397	526	746	968	1512	4222	4281	3442
77.5	290	329	273	321	432	698	994	2471	2117	1649
80.0	284	321	249	245	297	455	618	1447	1193	946
82.5	341	345	240	185	219	324	341	830	742	611
85.0	331	334	199	133	147	208	216	290	379	335
87.5	167	160	98	55	48	76	89	99	112	116
90.0	7	8	6	4	4	7	18	35	42	44
92.5	4	4	4	4	3	6	16	34	42	42
95.0	4	4	4	4	3	4	14	31	40	40
97.5	4	3	3	4	3	4	11	27	35	35
100.0	4	3	3	4	3	3	7	20	27	28
102.5	4	3	3	3	3	3	3	11	18	18
105.0	3	3	3	3	1	1	1	4	8	10
107.5	3	3	3	3	1	0	0	0	3	3
110.0	3	3	3	3	1	0	0	0	0	0
112.5	3	3	3	3	1	0	0	0	0	0
115.0	4	3	3	3	1	0	0	0	0	0
117.5	4	3	3	3	1	0	0	0	0	0
120.0	4	4	3	3	1	0	0	0	0	0
122.5	4	4	4	4	1	1	0	0	0	0
125.0	6	6	4	4	3	1	0	0	0	0
127.5	6	6	4	4	3	1	0	0	0	0
130.0	7	7	6	4	3	1	1	0	0	0

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CANDELA TABULATION - (Cont.)

132.5	8	8	7	6	3	3	1	0	0	0
135.0	10	8	7	6	4	3	1	0	0	0
137.5	10	10	8	7	4	3	1	1	0	0
140.0	11	11	8	7	4	3	1	1	0	0
142.5	10	10	8	6	4	3	1	1	0	0
145.0	6	6	3	3	1	0	0	0	0	0
147.5	3	1	1	0	0	0	0	0	0	0
150.0	3	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	2397	2397	2397	2397	2397	2397	2397	2397	2397	2397
2.5	2355	2352	2348	2328	2319	2298	2321	2353	2362	2374
5.0	2342	2261	2253	2278	2297	2281	2357	2257	2169	2131
7.5	2331	2328	2285	2284	2332	2157	2028	1991	2028	1979
10.0	2461	2372	2349	2463	2256	2090	2011	1991	1989	2044
12.5	2731	2575	2579	2557	2270	2110	2126	2075	2096	2153
15.0	2961	2797	2774	2708	2325	2266	2195	2230	2312	2434
17.5	3261	3118	3032	2820	2496	2370	2400	2561	2674	2838
20.0	3656	3480	3401	2999	2654	2550	2677	2912	3029	3270
22.5	4076	3931	3735	3157	2797	2791	3020	3273	3717	3988
25.0	4661	4374	4236	3413	3009	3090	3358	3875	4263	4698
27.5	5238	4916	4828	3702	3273	3410	3918	4398	5068	5461
30.0	5870	5485	5327	3957	3569	3786	4363	5065	5564	6014
32.5	6364	5916	5680	4206	3873	4147	4849	5461	6154	6533
35.0	6917	6383	6070	4414	4158	4585	5176	5830	6401	6663
37.5	7522	6890	6489	4647	4383	4781	5351	5959	6388	6568
40.0	8156	7429	6924	4902	4558	4934	5406	5926	6155	6224
42.5	8876	8009	7412	5132	4755	5024	5313	5668	5733	5659
45.0	9633	8675	7899	5391	4855	4983	5136	5268	5197	5013
47.5	10555	9414	8414	5636	4918	4883	4875	4824	4578	4403
50.0	11746	10353	8975	5860	4972	4721	4554	4370	4082	3914
52.5	13287	11356	9564	6073	4995	4485	4186	4029	3699	3553
55.0	15045	12462	10057	6227	4897	4169	3892	3741	3330	3181
57.5	16915	13510	10350	6250	4708	3795	3593	3434	2895	2749
60.0	18651	14252	10244	6007	4387	3347	3198	3022	2458	2343
62.5	19713	14223	9444	5369	3844	2827	2722	2561	2038	1915
65.0	19525	12966	7643	4338	3132	2250	2186	2083	1661	1535
67.5	16870	10120	5241	3091	2377	1754	1751	1664	1360	1330
70.0	11616	6328	3208	2082	1771	1409	1444	1348	1207	1223
72.5	4978	3077	2011	1460	1360	1166	1223	1172	1105	1122
75.0	1871	1457	1333	1090	1088	1002	1056	1047	972	905
77.5	1001	886	931	885	876	875	922	804	625	512

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CANDELA TABULATION - (Cont.)

80.0	674	564	582	735	734	741	623	427	540	489
82.5	440	302	319	588	599	464	325	345	659	666
85.0	250	151	174	410	342	239	249	356	711	701
87.5	95	49	73	129	98	113	143	257	503	547
90.0	37	6	25	20	11	6	3	3	1	1
92.5	37	6	27	20	13	6	3	3	1	1
95.0	37	4	28	21	13	6	4	3	1	1
97.5	34	4	27	20	13	6	4	3	1	1
100.0	27	4	21	17	11	6	3	1	1	1
102.5	18	3	17	13	8	6	3	1	1	1
105.0	10	1	10	8	7	4	3	1	1	1
107.5	4	1	6	6	6	4	3	1	1	1
110.0	1	0	3	4	4	4	3	1	1	1
112.5	0	0	3	4	4	3	3	1	1	1
115.0	0	0	1	3	4	4	3	3	1	1
117.5	0	0	1	3	4	4	3	3	1	1
120.0	0	0	1	3	4	4	4	3	3	3
122.5	0	0	1	3	4	4	4	3	3	3
125.0	0	1	1	3	4	4	4	4	3	3
127.5	0	1	3	4	4	4	4	4	3	3
130.0	0	1	3	4	4	4	4	4	4	4
132.5	0	1	3	4	6	6	6	4	4	4
135.0	0	1	3	4	6	6	6	6	4	4
137.5	0	1	1	4	6	6	6	6	6	4
140.0	0	1	1	3	6	6	6	6	6	4
142.5	0	0	1	3	4	6	6	6	6	4
145.0	0	0	0	1	3	4	4	4	3	3
147.5	0	0	0	0	1	1	1	3	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	2397	2397
2.5	2374	2379
5.0	2168	2131
7.5	1969	1966
10.0	1979	2014
12.5	2172	2153
15.0	2454	2490
17.5	2844	2948
20.0	3514	3576
22.5	4150	4229
25.0	5010	5020

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CANDELA TABULATION - (Cont.)

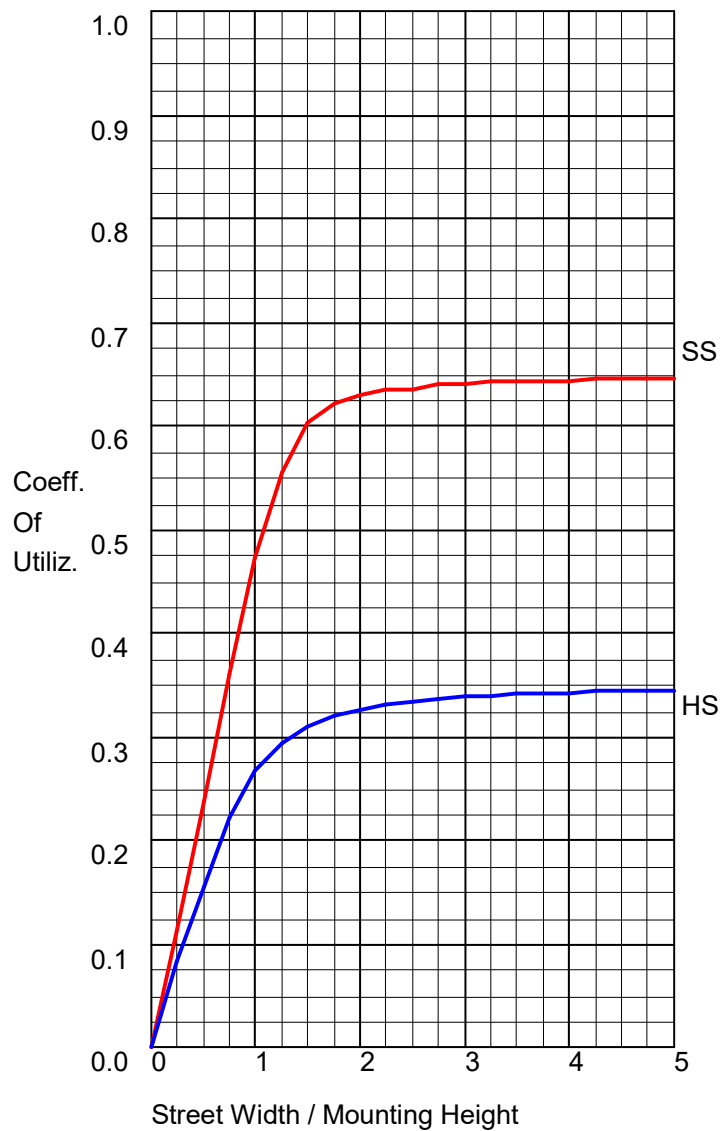
27.5	5648	5711
30.0	6335	6315
32.5	6629	6616
35.0	6702	6685
37.5	6534	6507
40.0	6125	6090
42.5	5540	5505
45.0	4875	4838
47.5	4274	4244
50.0	3823	3795
52.5	3466	3439
55.0	3056	3046
57.5	2647	2639
60.0	2244	2199
62.5	1820	1809
65.0	1529	1545
67.5	1408	1449
70.0	1346	1416
72.5	1255	1362
75.0	957	1052
77.5	543	635
80.0	546	613
82.5	728	749
85.0	738	749
87.5	454	563
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	3	3
135.0	3	3
137.5	4	4
140.0	4	4
142.5	3	3
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

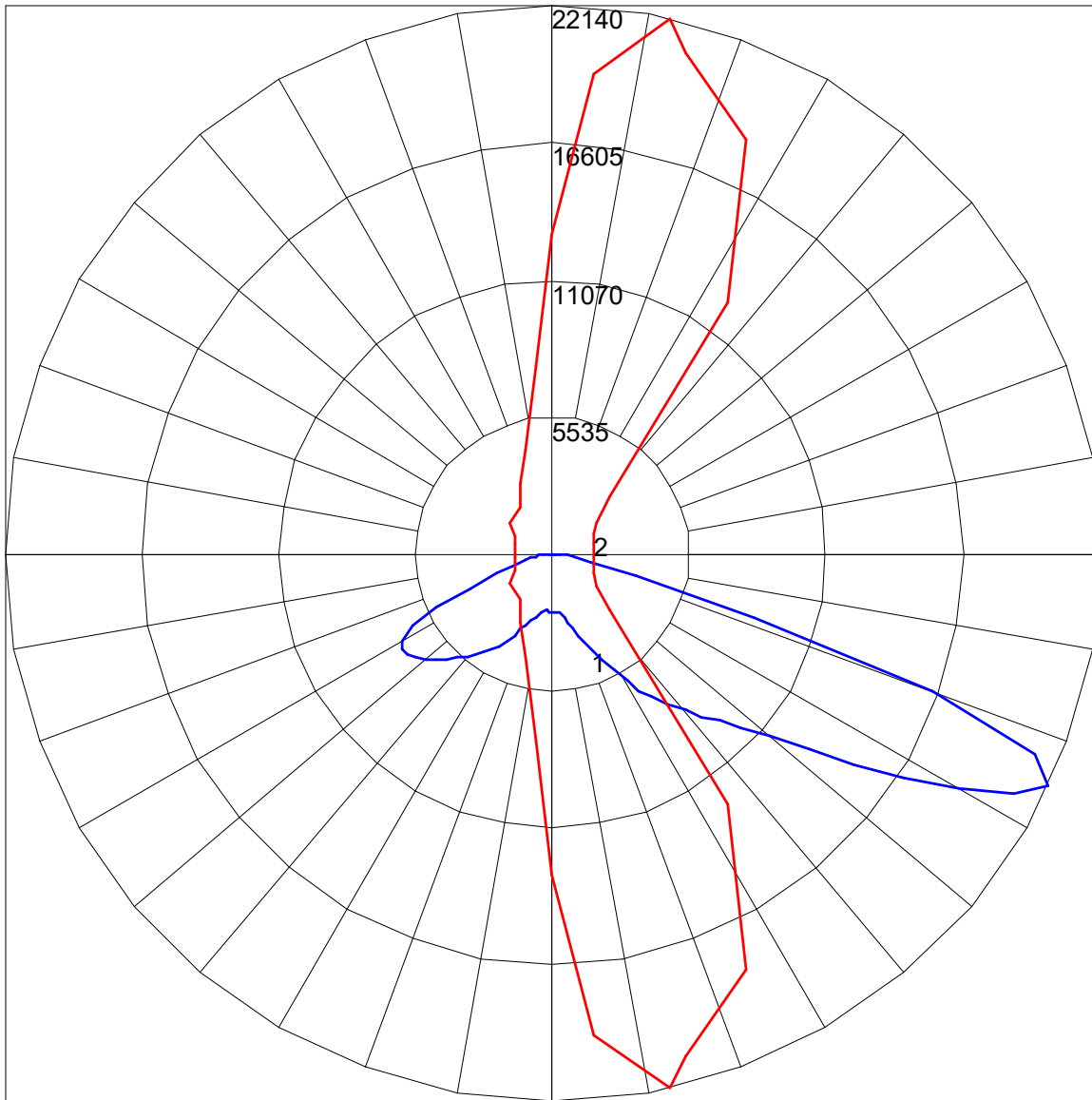
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

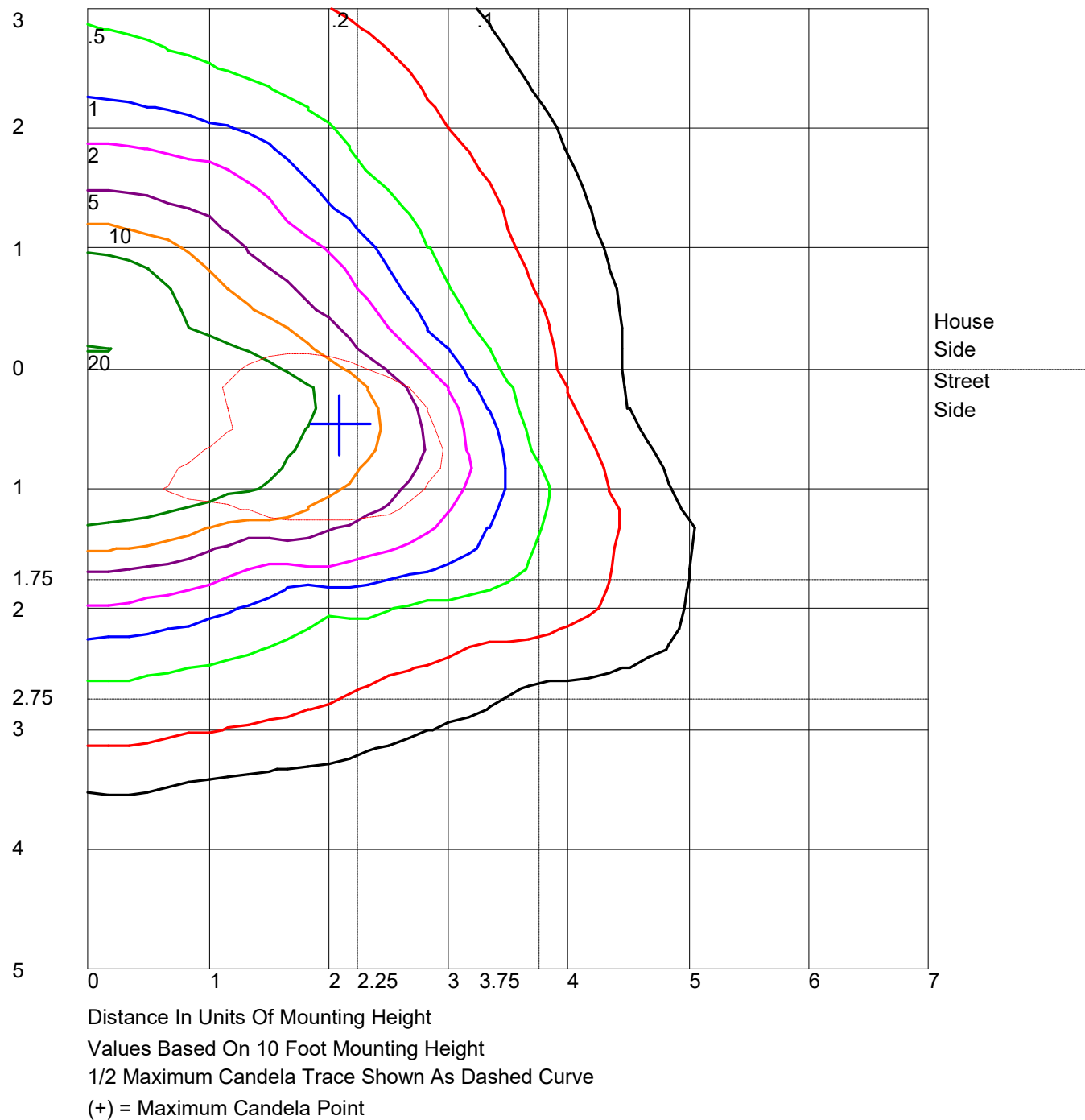
	Lumens	Percent Of Luminaire
Downward Street Side	17768.8	64.9
Downward House Side	9600.8	35.0
Downward Total	27369.6	99.9
Upward Street Side	13.6	0.0
Upward House Side	11.4	0.0
Upward Total	25.0	0.1
Total Flux	27394.6	100.0

POLAR GRAPH

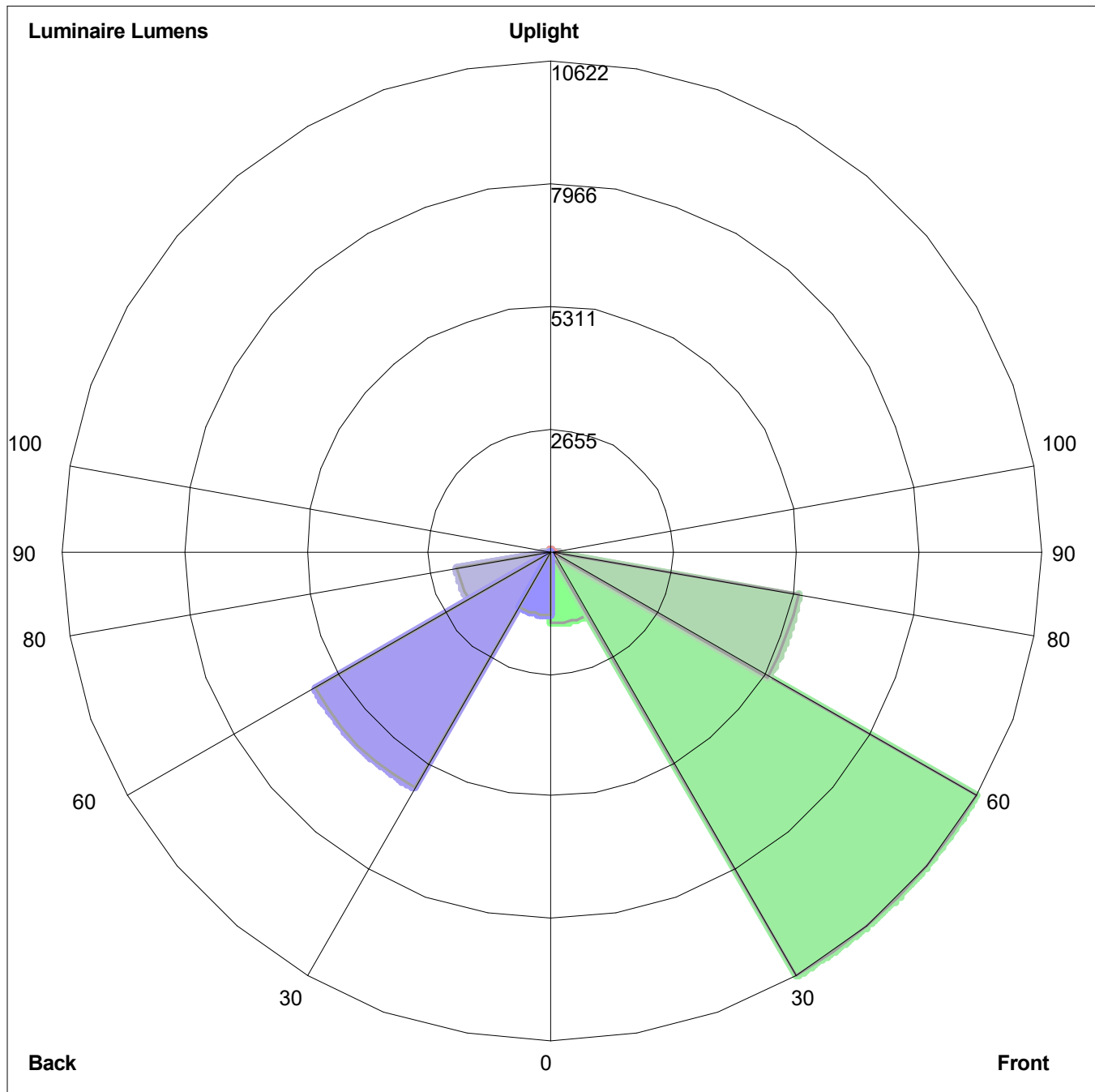


Maximum Candela = 22140 Located At Horizontal Angle = 77.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1572.1, Medium=10621.7, High= 5434.0, Very High=141.0
Back: Low=1380.6, Medium=5934.3, High=2078.7, Very High=207.2
Uplight: Low=11.9, High=13.0

BUG Rating : B4-U2-G3