



IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-FT-LED-25L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13248
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 06/07/22
[TESTDATE] 02/09/22
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] XCN4-PT-FT-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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	29039
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	232
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	20169
Maximum Candela Angle	40H 70V
Maximum Candela (<90 Degrees Vertical)	20169
Maximum Candela Angle (<90 Degrees Vertical)	40H 70V
Maximum Candela At 90 Degrees Vertical	130 (0.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	4649 (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)	1378.3	N.A.	4.7
FM - Front-Medium (30-60)	9266.4	N.A.	31.9
FH - Front-High (60-80)	10513.1	N.A.	36.2
FVH - Front-Very High (80-90)	480.3	N.A.	1.7
BL - Back-Low (0-30)	1288.4	N.A.	4.4
BM - Back-Medium (30-60)	4098.5	N.A.	14.1
BH - Back-High (60-80)	1811.9	N.A.	6.2
BVH - Back-Very High (80-90)	148.5	N.A.	0.5
UL - Uplight-Low (90-100)	16.0	N.A.	0.1
UH - Uplight-High (100-180)	37.6	N.A.	0.1
Total	29039.0	N.A.	100.0
BUG Rating	B3-U2-G4		

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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	2348	2348	2348	2348	2348	2348	2348	2348	2348	2348
2.5	2324	2325	2335	2326	2318	2300	2287	2301	2297	2291
5.0	2147	2120	2121	2129	2199	2223	2294	2315	2317	2287
7.5	1991	1941	1955	1976	2017	2032	2047	2131	2352	2315
10.0	2007	1973	2008	2027	2042	2028	2062	2110	2233	2517
12.5	2068	2064	2078	2068	2103	2144	2211	2192	2294	2560
15.0	2266	2242	2281	2249	2222	2260	2291	2435	2444	2746
17.5	2605	2516	2544	2471	2517	2497	2516	2633	2776	2944
20.0	3201	3152	2960	2784	2858	2872	2879	2912	3059	3217
22.5	3693	3641	3550	3442	3241	3251	3272	3282	3365	3475
25.0	4363	4393	4162	3991	3843	3847	3678	3689	3710	3801
27.5	4851	4846	4832	4699	4372	4328	4284	4062	4032	4102
30.0	5470	5499	5374	5180	5061	4930	4784	4493	4316	4308
32.5	5819	5854	5911	5856	5564	5470	5358	4893	4606	4479
35.0	6157	6200	6278	6270	6107	5983	5865	5415	4842	4550
37.5	6518	6585	6651	6656	6538	6469	6291	5779	5118	4695
40.0	6979	7007	7070	7077	7015	6896	6747	6246	5429	4876
42.5	7464	7495	7556	7598	7530	7409	7221	6812	5789	5125
45.0	8032	8097	8135	8217	8138	8032	7820	7413	6292	5509
47.5	8677	8759	8852	8965	8914	8760	8541	8128	6921	5993
50.0	9356	9453	9591	9857	9790	9652	9390	9062	7798	6599
52.5	10019	10148	10318	10787	10794	10667	10426	10220	8695	7366
55.0	10515	10674	10992	11690	11855	11828	11705	11656	9916	8267
57.5	10979	11211	11583	12487	13076	13267	13294	13300	11197	9231
60.0	11640	11940	12431	13445	14435	14939	15083	15052	12415	9913
62.5	12319	12691	13296	14631	16110	16857	16973	16600	13322	10281
65.0	12797	13078	13987	15827	17839	18795	18740	17533	13508	9810
67.5	12380	12592	13898	16577	19143	20044	19895	17319	12497	8285
70.0	10894	11106	12667	16228	19619	20169	19726	15745	10067	5858
72.5	7819	8007	9841	13687	18662	19076	18210	12515	6547	3234
75.0	3788	4014	5829	9368	14402	15287	14149	8162	3686	2011
77.5	1774	1908	2938	4950	8489	9559	8896	4692	2355	1324
80.0	944	1037	1902	2994	3939	4649	4612	2876	1433	806
82.5	636	702	1290	1918	2263	2504	2545	1454	873	444
85.0	465	523	941	1289	1535	1336	1005	602	423	257
87.5	301	335	615	598	746	492	187	202	139	113
90.0	72	103	130	73	47	34	28	25	25	24
92.5	4	4	6	10	16	18	21	24	27	24
95.0	4	3	6	10	17	20	23	25	27	25
97.5	4	3	6	10	16	18	21	23	27	25
100.0	3	3	6	8	11	13	14	17	21	21
102.5	3	3	4	7	8	10	10	13	16	17
105.0	3	3	4	7	7	8	8	10	11	13
107.5	3	3	4	6	7	7	7	8	8	10
110.0	3	3	4	6	7	7	7	7	8	8
112.5	3	3	4	6	7	7	7	7	7	8
115.0	3	3	4	6	7	7	7	7	7	8
117.5	3	3	4	6	7	7	7	7	7	8
120.0	3	3	4	7	7	7	7	7	8	8
122.5	4	4	6	7	7	7	7	8	8	8
125.0	4	4	6	7	7	7	8	8	8	8
127.5	6	6	6	7	8	8	8	8	8	10
130.0	6	6	6	7	8	8	8	8	10	10

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CANDELA TABULATION - (Cont.)

132.5	7	7	7	8	8	8	8	10	10	10
135.0	8	8	7	8	8	10	10	10	10	10
137.5	10	8	8	8	10	10	10	10	10	10
140.0	10	10	10	10	10	10	10	10	10	10
142.5	10	8	8	8	10	8	10	8	10	10
145.0	4	4	6	7	7	7	7	7	7	7
147.5	1	1	3	4	6	6	6	4	4	6
150.0	1	1	3	4	6	6	4	4	4	6
152.5	1	1	3	4	6	4	4	4	4	6
155.0	1	1	3	4	4	4	4	4	4	6
157.5	1	1	3	4	4	4	4	4	4	6
160.0	1	1	3	4	4	4	4	4	4	4
162.5	1	1	3	4	4	4	4	4	4	4
165.0	1	1	3	4	4	4	4	4	4	4
167.5	1	1	3	4	4	4	4	4	4	6
170.0	1	1	3	4	4	4	4	4	4	6
172.5	1	1	3	4	4	4	4	4	4	6
175.0	1	1	3	4	4	4	4	4	4	6
177.5	1	1	3	4	4	4	4	4	4	6
180.0	3	3	3	3	3	3	3	3	3	3

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	2348	2348	2348	2348	2348	2348	2348	2348	2348	2348
2.5	2307	2311	2294	2304	2333	2335	2338	2366	2387	2417
5.0	2260	2240	2266	2305	2360	2406	2462	2382	2308	2315
7.5	2285	2278	2295	2329	2455	2298	2211	2198	2192	2188
10.0	2370	2318	2370	2545	2406	2292	2244	2294	2291	2298
12.5	2578	2504	2571	2685	2472	2384	2411	2407	2404	2469
15.0	2748	2704	2756	2838	2569	2595	2530	2531	2572	2623
17.5	3012	2937	2965	3016	2787	2745	2681	2739	2774	2804
20.0	3350	3261	3280	3193	2998	2907	2892	2897	2899	2998
22.5	3632	3583	3627	3382	3169	3061	3061	3047	3169	3265
25.0	3957	3853	3921	3577	3309	3235	3172	3282	3351	3491
27.5	4253	4083	4126	3686	3446	3331	3338	3432	3620	3748
30.0	4393	4249	4295	3819	3494	3453	3499	3658	3765	3936
32.5	4429	4242	4299	3778	3549	3497	3648	3736	3976	4148
35.0	4449	4229	4271	3727	3512	3577	3717	3857	4044	4212
37.5	4495	4230	4247	3642	3437	3572	3697	3826	4058	4263
40.0	4585	4264	4244	3583	3343	3519	3639	3778	4061	4342
42.5	4732	4339	4266	3478	3225	3450	3559	3714	4102	4415
45.0	4955	4480	4332	3413	3119	3348	3427	3630	4215	4184
47.5	5311	4721	4497	3378	2971	3210	3293	3532	4271	3817
50.0	5793	5050	4704	3369	2820	3081	3133	3474	4038	3508
52.5	6408	5478	4951	3384	2654	2927	2981	3439	3717	3246
55.0	7075	5894	5207	3408	2517	2773	2838	3312	3410	3009
57.5	7645	6244	5402	3395	2360	2615	2676	3107	3102	2729
60.0	7946	6411	5347	3344	2211	2458	2496	2883	2722	2480
62.5	7826	6196	4820	3201	2021	2264	2331	2601	2428	2309
65.0	7010	5323	3752	2839	1835	2069	2138	2397	2185	2172
67.5	5450	3973	2537	2301	1627	1850	1953	2236	1970	2052
70.0	3418	2435	1591	1686	1384	1599	1778	2041	1774	1935
72.5	1737	1295	1078	1221	1148	1357	1582	1788	1582	1784
75.0	1159	820	736	888	886	1093	1346	1504	1337	1497
77.5	734	499	473	608	667	852	1084	1102	871	919

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CANDELA TABULATION - (Cont.)

80.0	400	288	329	438	517	663	721	594	519	618
82.5	254	189	229	319	389	379	390	440	352	440
85.0	155	100	136	209	201	209	246	253	178	278
87.5	66	28	57	76	82	93	99	98	72	117
90.0	17	7	10	11	10	10	8	7	8	10
92.5	17	7	11	11	11	10	8	6	3	0
95.0	18	8	13	13	13	11	10	7	4	1
97.5	18	10	16	16	14	14	13	10	6	3
100.0	17	10	14	14	16	14	13	11	7	4
102.5	16	10	13	14	14	14	13	11	8	6
105.0	13	10	11	13	13	13	13	10	8	6
107.5	11	8	11	11	13	11	11	8	7	6
110.0	10	8	10	11	11	11	10	8	7	4
112.5	8	8	10	11	11	11	10	8	7	4
115.0	8	8	10	11	11	11	10	8	7	6
117.5	8	10	10	11	11	11	10	10	8	6
120.0	8	10	10	11	11	11	11	10	8	6
122.5	8	10	10	11	11	11	11	10	8	6
125.0	10	10	10	11	11	11	10	10	8	6
127.5	10	10	10	11	11	11	10	10	7	6
130.0	10	10	10	11	11	11	10	8	7	6
132.5	10	10	10	11	11	11	10	8	7	6
135.0	10	10	10	11	11	10	8	7	6	4
137.5	10	10	10	11	11	10	8	7	6	4
140.0	10	10	10	11	11	10	8	6	6	3
142.5	8	10	10	10	10	8	7	6	4	3
145.0	7	7	8	8	7	6	4	3	1	0
147.5	6	6	7	7	6	4	3	0	0	0
150.0	6	6	6	6	6	4	1	0	0	0
152.5	6	6	6	6	6	4	1	0	0	0
155.0	6	6	6	6	6	3	1	0	0	0
157.5	6	6	6	6	4	3	1	0	0	0
160.0	6	6	6	6	4	3	1	0	0	0
162.5	6	6	6	6	4	3	1	0	0	0
165.0	6	6	6	6	4	3	0	0	0	0
167.5	6	6	6	6	4	3	1	0	0	0
170.0	6	6	6	6	4	3	1	0	0	0
172.5	6	6	6	6	4	3	1	0	0	0
175.0	6	6	6	6	4	3	1	0	0	0
177.5	6	6	6	6	4	1	0	0	0	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Horizontal Angles
Angles

	175	180
0.0	2348	2348
2.5	2411	2404
5.0	2309	2329
7.5	2222	2196
10.0	2268	2307
12.5	2463	2466
15.0	2630	2640
17.5	2851	2904
20.0	3139	3167
22.5	3381	3406
25.0	3621	3671

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CANDELA TABULATION - (Cont.)

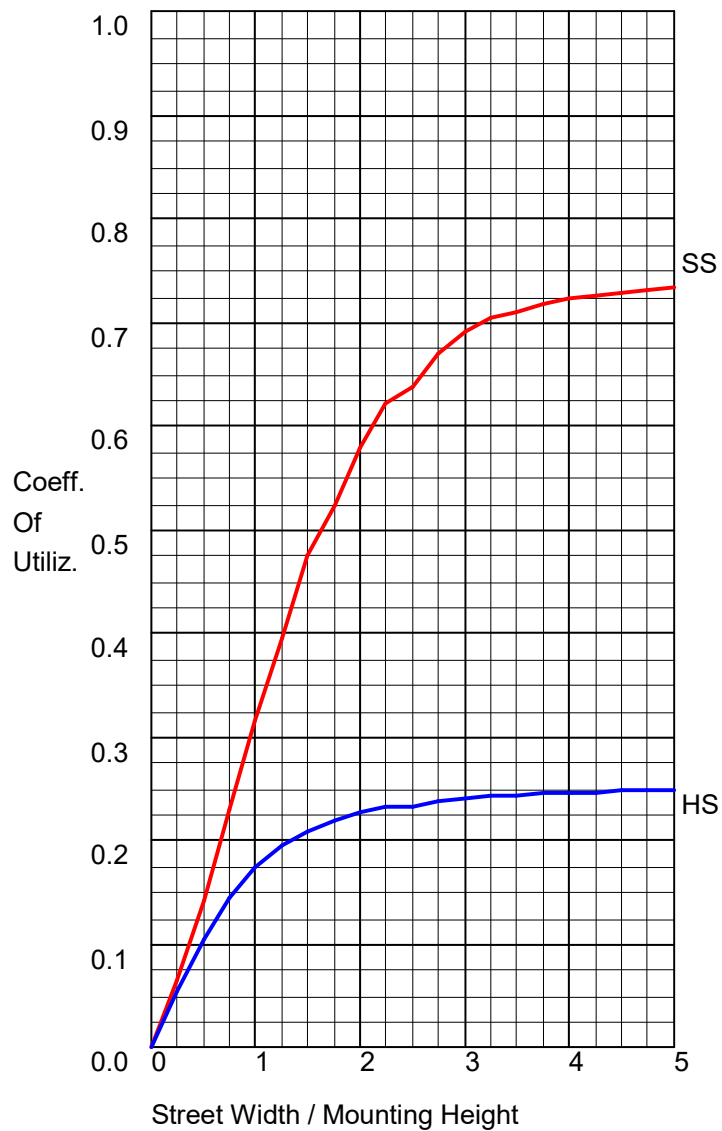
27.5	3842	3846
30.0	4080	4089
32.5	4179	4168
35.0	4213	4198
37.5	4258	4233
40.0	4291	4250
42.5	4052	3962
45.0	3668	3594
47.5	3401	3345
50.0	3186	3136
52.5	2977	2928
55.0	2766	2715
57.5	2486	2434
60.0	2278	2213
62.5	2129	2054
65.0	2035	1958
67.5	1983	1898
70.0	1943	1857
72.5	1880	1809
75.0	1648	1582
77.5	1152	1153
80.0	988	1053
82.5	801	873
85.0	572	650
87.5	326	410
90.0	30	40
92.5	0	0
95.0	0	0
97.5	0	0
100.0	1	1
102.5	3	3
105.0	4	3
107.5	3	3
110.0	3	3
112.5	3	3
115.0	4	4
117.5	4	4
120.0	4	4
122.5	4	4
125.0	4	4
127.5	4	4
130.0	4	4
132.5	4	4
135.0	4	4
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

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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	3	3

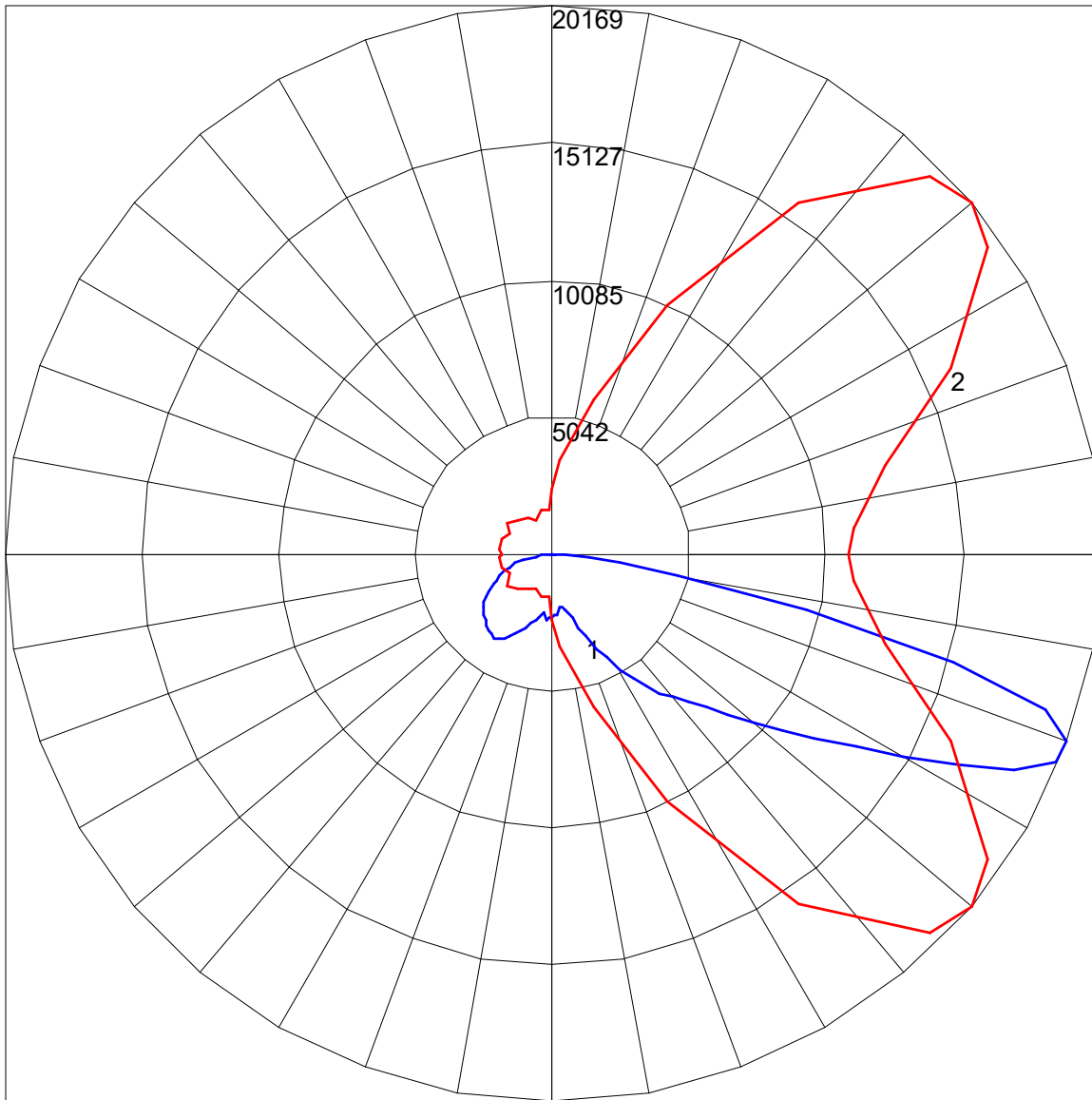
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

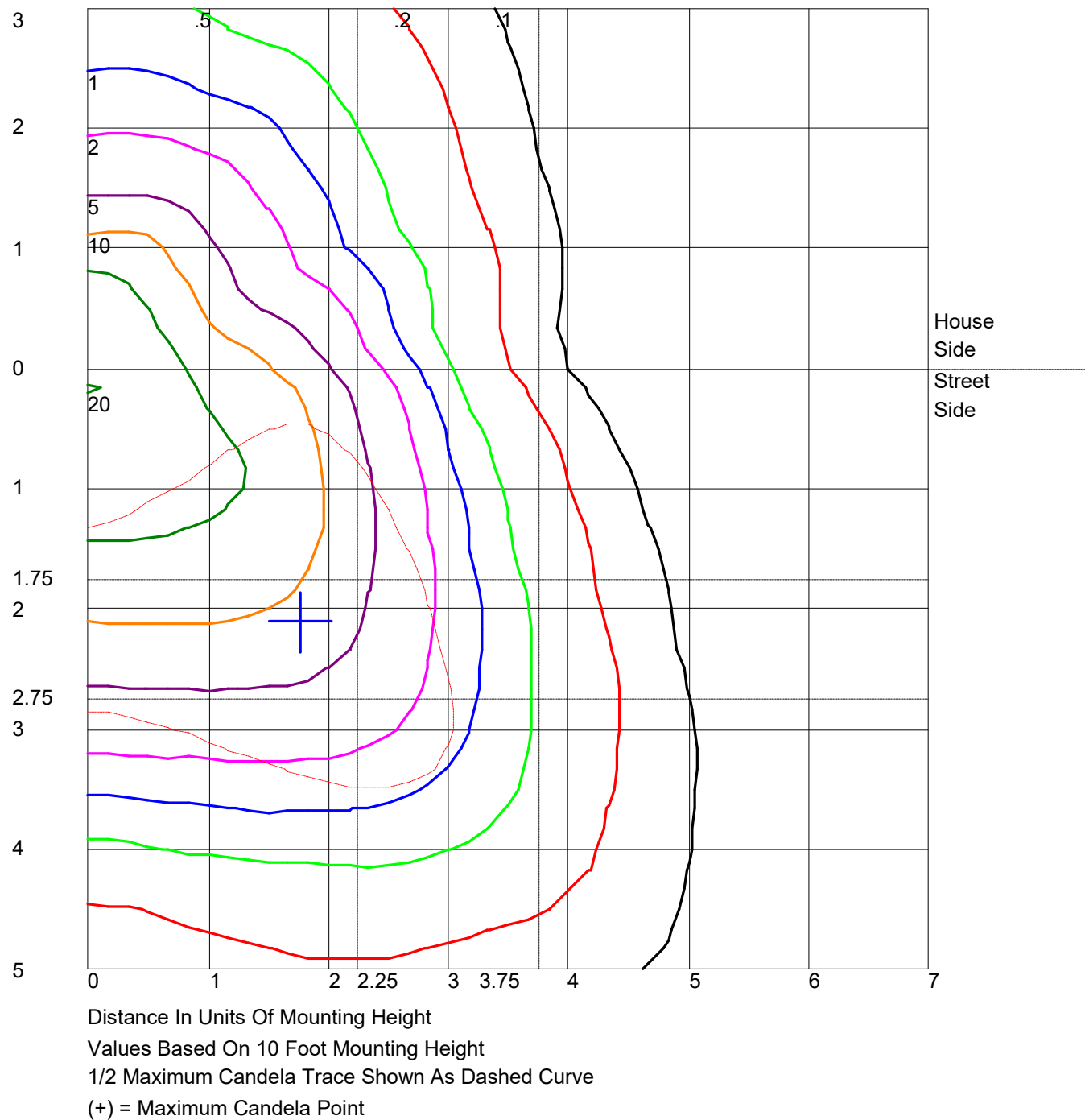
	Lumens	Percent Of Luminaire
Downward Street Side	21638.1	74.5
Downward House Side	7347.2	25.3
Downward Total	28985.3	99.8
Upward Street Side	29.7	0.1
Upward House Side	23.9	0.1
Upward Total	53.6	0.2
Total Flux	29038.9	100.0

POLAR GRAPH

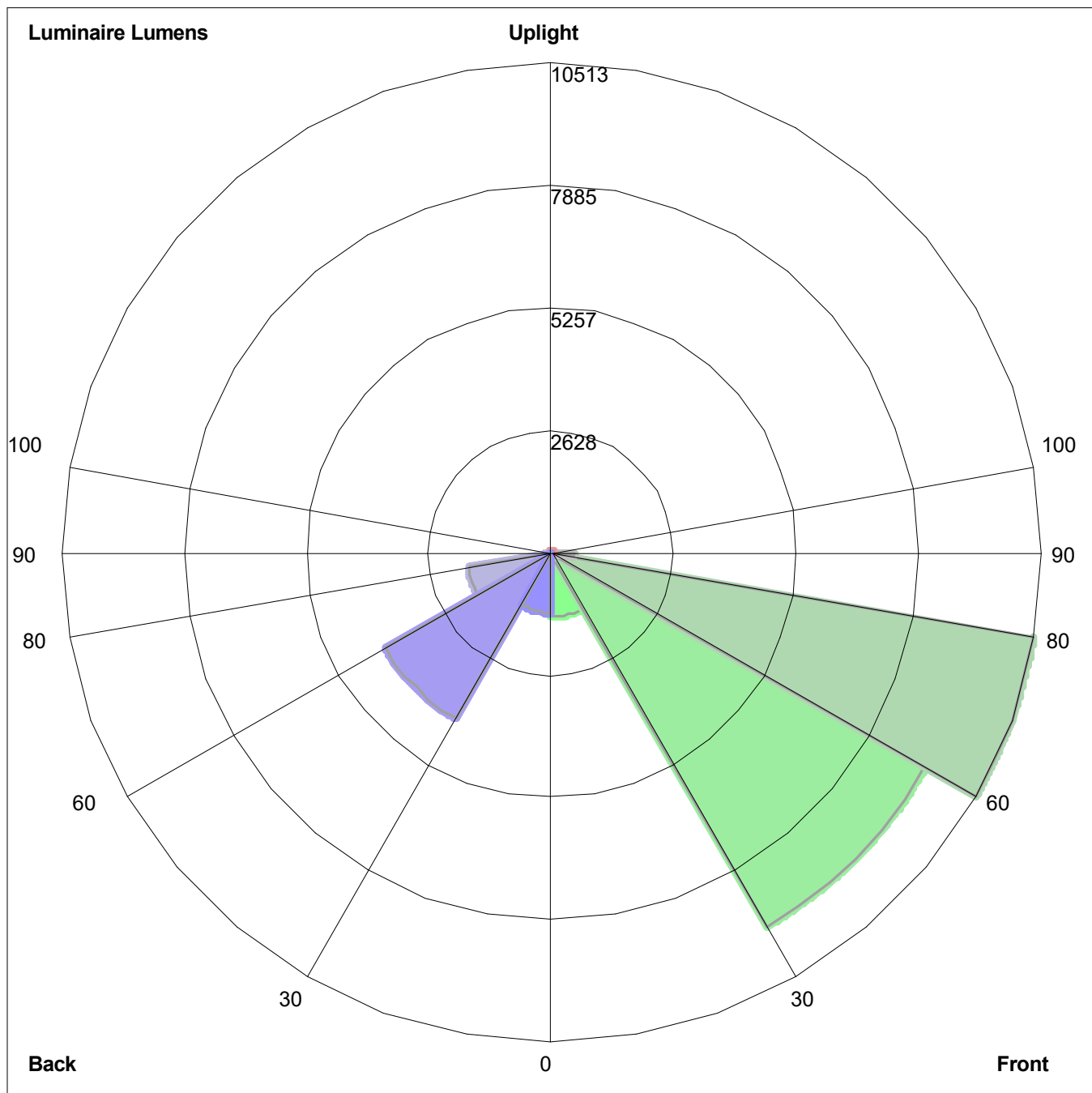


Maximum Candela = 20169 Located At Horizontal Angle = 40, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1378.3, Medium=9266.4, High=10513.1, Very High=480.3
Back: Low=1288.4, Medium=4098.5, High=1811.9, Very High=148.5
Uplight: Low=16.0, High=37.6

BUG Rating : B3-U2-G4