



IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-FT-LED-25L-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-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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	28805
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	232
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	20006
Maximum Candela Angle	40H 70V
Maximum Candela (<90 Degrees Vertical)	20006
Maximum Candela Angle (<90 Degrees Vertical)	40H 70V
Maximum Candela At 90 Degrees Vertical	129 (0.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	4611 (16.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1367.2	N.A.	4.7
FM - Front-Medium (30-60)	9191.5	N.A.	31.9
FH - Front-High (60-80)	10428.1	N.A.	36.2
FVH - Front-Very High (80-90)	476.4	N.A.	1.7
BL - Back-Low (0-30)	1278.0	N.A.	4.4
BM - Back-Medium (30-60)	4065.4	N.A.	14.1
BH - Back-High (60-80)	1797.2	N.A.	6.2
BVH - Back-Very High (80-90)	147.2	N.A.	0.5
UL - Uplight-Low (90-100)	15.9	N.A.	0.1
UH - Uplight-High (100-180)	37.6	N.A.	0.1
Total	28804.5	N.A.	100.0
BUG Rating	B3-U2-G4		

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

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	2329	2329	2329	2329	2329	2329	2329	2329	2329	2329
2.5	2305	2306	2316	2307	2299	2281	2269	2282	2278	2272
5.0	2130	2103	2104	2112	2181	2205	2275	2296	2298	2269
7.5	1975	1925	1939	1960	2001	2016	2030	2114	2333	2296
10.0	1991	1957	1992	2011	2025	2012	2045	2093	2215	2497
12.5	2051	2047	2061	2051	2086	2127	2193	2174	2275	2539
15.0	2248	2224	2263	2231	2204	2242	2272	2415	2424	2724
17.5	2584	2496	2523	2451	2497	2477	2496	2612	2754	2920
20.0	3175	3127	2936	2761	2835	2849	2856	2888	3034	3191
22.5	3663	3612	3521	3414	3215	3225	3246	3255	3338	3447
25.0	4328	4357	4128	3959	3812	3816	3648	3659	3680	3770
27.5	4812	4807	4793	4661	4337	4293	4249	4029	3999	4069
30.0	5426	5455	5331	5138	5020	4890	4745	4457	4281	4273
32.5	5772	5807	5863	5809	5519	5426	5315	4853	4569	4443
35.0	6107	6150	6227	6219	6058	5935	5818	5371	4803	4513
37.5	6465	6532	6597	6602	6485	6417	6240	5732	5077	4657
40.0	6923	6950	7013	7020	6958	6840	6692	6195	5385	4837
42.5	7404	7434	7495	7537	7469	7349	7163	6757	5742	5084
45.0	7967	8032	8069	8151	8072	7967	7757	7353	6241	5464
47.5	8607	8688	8780	8893	8842	8689	8472	8062	6865	5945
50.0	9280	9377	9513	9777	9711	9574	9314	8989	7735	6546
52.5	9938	10066	10235	10700	10707	10581	10342	10137	8625	7306
55.0	10430	10588	10903	11595	11759	11732	11610	11562	9836	8200
57.5	10890	11120	11489	12386	12970	13160	13187	13192	11106	9156
60.0	11546	11843	12330	13336	14318	14818	14961	14930	12315	9833
62.5	12219	12588	13188	14513	15980	16721	16836	16466	13214	10198
65.0	12694	12972	13874	15699	17695	18643	18588	17391	13399	9731
67.5	12280	12490	13786	16443	18988	19882	19734	17179	12396	8218
70.0	10806	11016	12565	16097	19460	20006	19566	15618	9986	5811
72.5	7756	7942	9761	13576	18511	18922	18063	12414	6494	3208
75.0	3757	3982	5782	9292	14286	15163	14035	8096	3656	1995
77.5	1760	1893	2914	4910	8420	9482	8824	4654	2336	1313
80.0	936	1029	1887	2970	3907	4611	4575	2853	1421	799
82.5	631	696	1280	1902	2245	2484	2524	1442	866	440
85.0	461	519	933	1279	1523	1325	997	597	420	255
87.5	299	332	610	593	740	488	185	200	138	112
90.0	71	102	129	72	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

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

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	2329	2329	2329	2329	2329	2329	2329	2329	2329	2329
2.5	2288	2292	2275	2285	2314	2316	2319	2347	2368	2397
5.0	2242	2222	2248	2286	2341	2387	2442	2363	2289	2296
7.5	2267	2260	2276	2310	2435	2279	2193	2180	2174	2170
10.0	2351	2299	2351	2524	2387	2273	2226	2275	2272	2279
12.5	2557	2484	2550	2663	2452	2365	2392	2388	2385	2449
15.0	2726	2682	2734	2815	2548	2574	2510	2511	2551	2602
17.5	2988	2913	2941	2992	2764	2723	2659	2717	2752	2781
20.0	3323	3235	3253	3167	2974	2883	2869	2874	2876	2974
22.5	3603	3554	3598	3355	3143	3036	3036	3022	3143	3239
25.0	3925	3822	3889	3548	3282	3209	3146	3255	3324	3463
27.5	4219	4050	4093	3656	3418	3304	3311	3404	3591	3718
30.0	4357	4215	4260	3788	3466	3425	3471	3628	3735	3904
32.5	4393	4208	4264	3747	3520	3469	3619	3706	3944	4114
35.0	4413	4195	4236	3697	3484	3548	3687	3826	4011	4178
37.5	4459	4196	4213	3613	3409	3543	3667	3795	4025	4229
40.0	4548	4230	4210	3554	3316	3491	3610	3747	4028	4307
42.5	4694	4304	4232	3450	3199	3422	3530	3684	4069	4379
45.0	4915	4444	4297	3385	3094	3321	3399	3601	4181	4150
47.5	5268	4683	4461	3351	2947	3184	3266	3503	4236	3786
50.0	5746	5009	4666	3342	2797	3056	3108	3446	4005	3480
52.5	6356	5434	4911	3357	2633	2903	2957	3411	3687	3220
55.0	7018	5846	5165	3380	2497	2751	2815	3285	3382	2985
57.5	7583	6194	5358	3368	2341	2594	2654	3082	3077	2707
60.0	7882	6359	5304	3317	2193	2438	2476	2860	2700	2460
62.5	7763	6146	4781	3175	2005	2246	2312	2580	2408	2290
65.0	6953	5280	3722	2816	1820	2052	2121	2378	2167	2154
67.5	5406	3941	2516	2282	1614	1835	1937	2218	1954	2035
70.0	3390	2415	1578	1672	1373	1586	1764	2024	1760	1919
72.5	1723	1285	1069	1211	1139	1346	1569	1774	1569	1770
75.0	1150	813	730	881	879	1084	1335	1492	1326	1485
77.5	728	495	469	603	662	845	1075	1093	864	912

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

CANDELA TABULATION - (Cont.)

80.0	397	286	326	434	513	658	715	589	515	613
82.5	252	187	227	316	386	376	387	436	349	436
85.0	154	99	135	207	199	207	244	251	177	276
87.5	65	28	57	75	81	92	98	97	71	116
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	2329	2329
2.5	2392	2385
5.0	2290	2310
7.5	2204	2178
10.0	2250	2288
12.5	2443	2446
15.0	2609	2619
17.5	2828	2881
20.0	3114	3141
22.5	3354	3378
25.0	3592	3641

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

CANDELA TABULATION - (Cont.)

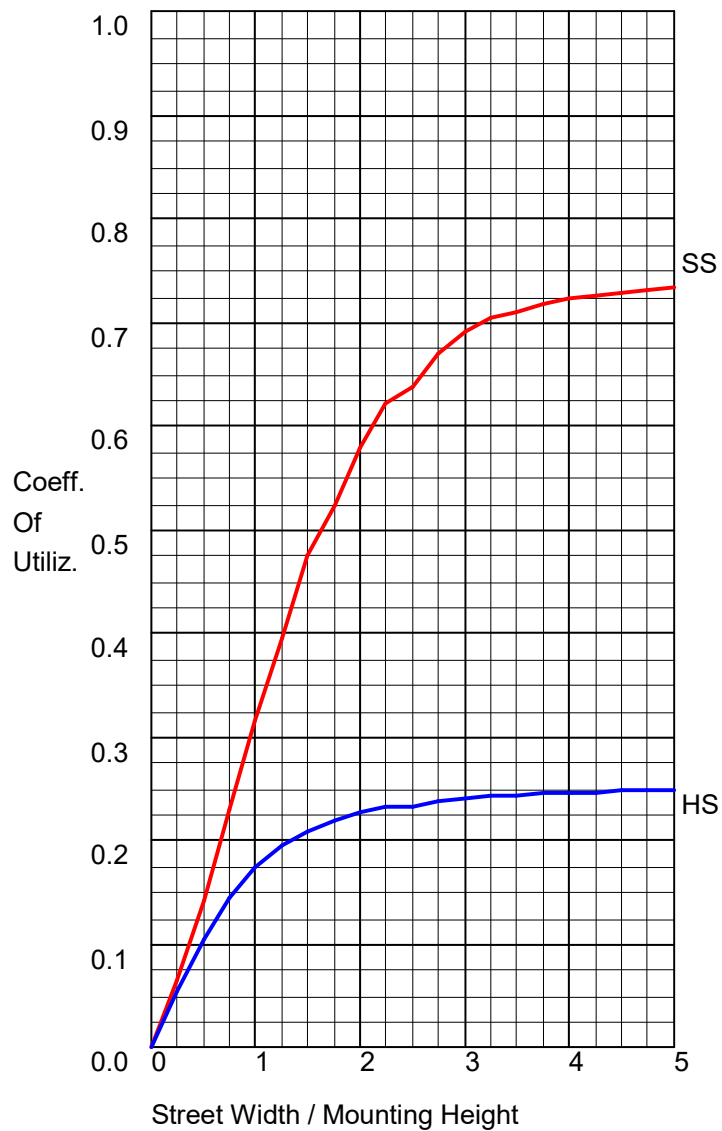
27.5	3811	3815
30.0	4047	4056
32.5	4145	4134
35.0	4179	4164
37.5	4224	4199
40.0	4256	4216
42.5	4019	3930
45.0	3638	3565
47.5	3373	3318
50.0	3160	3111
52.5	2953	2904
55.0	2744	2693
57.5	2466	2414
60.0	2260	2195
62.5	2112	2037
65.0	2019	1942
67.5	1967	1883
70.0	1927	1842
72.5	1865	1794
75.0	1635	1569
77.5	1143	1144
80.0	980	1044
82.5	795	866
85.0	567	645
87.5	323	407
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

IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-FT-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

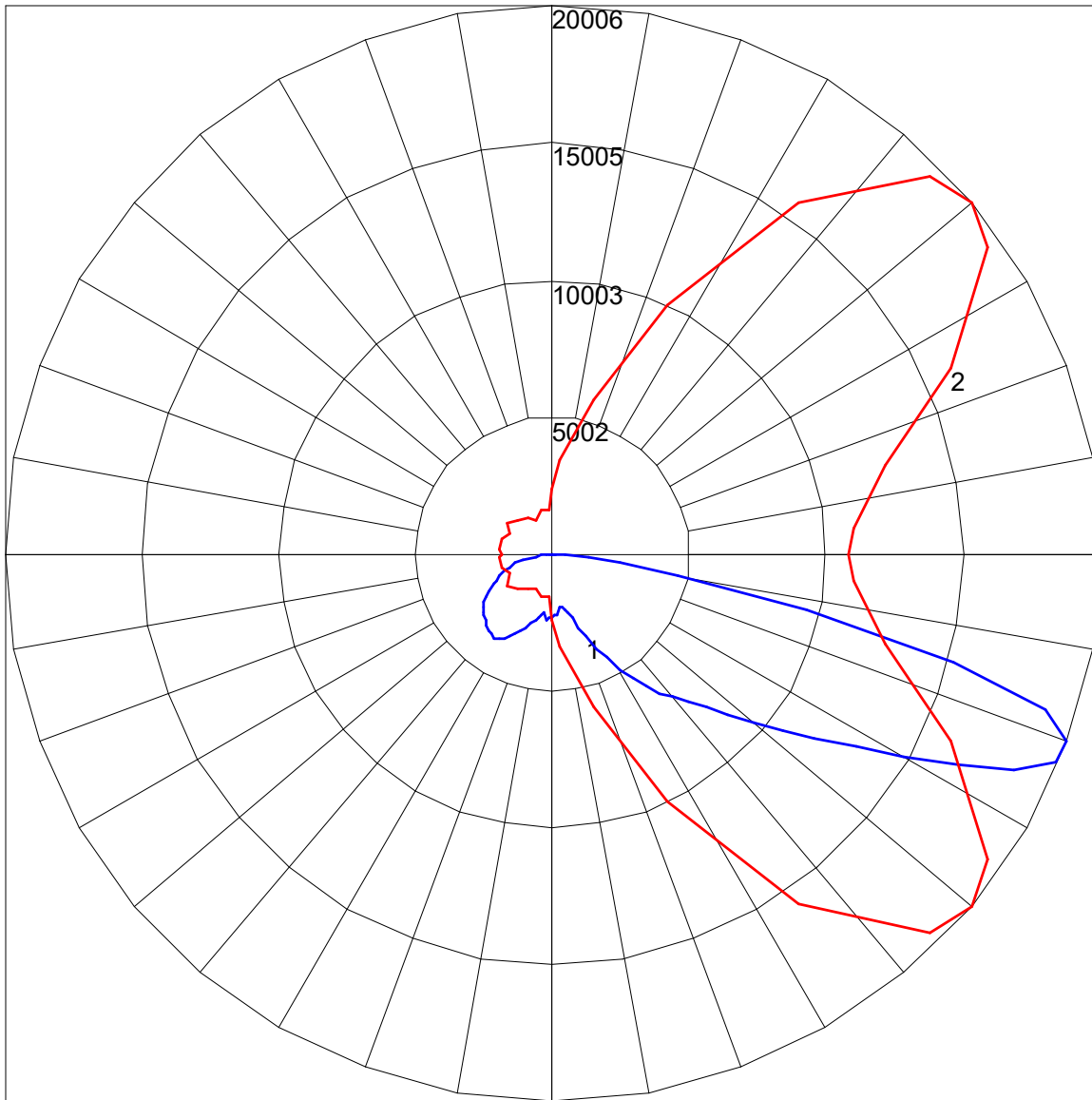
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

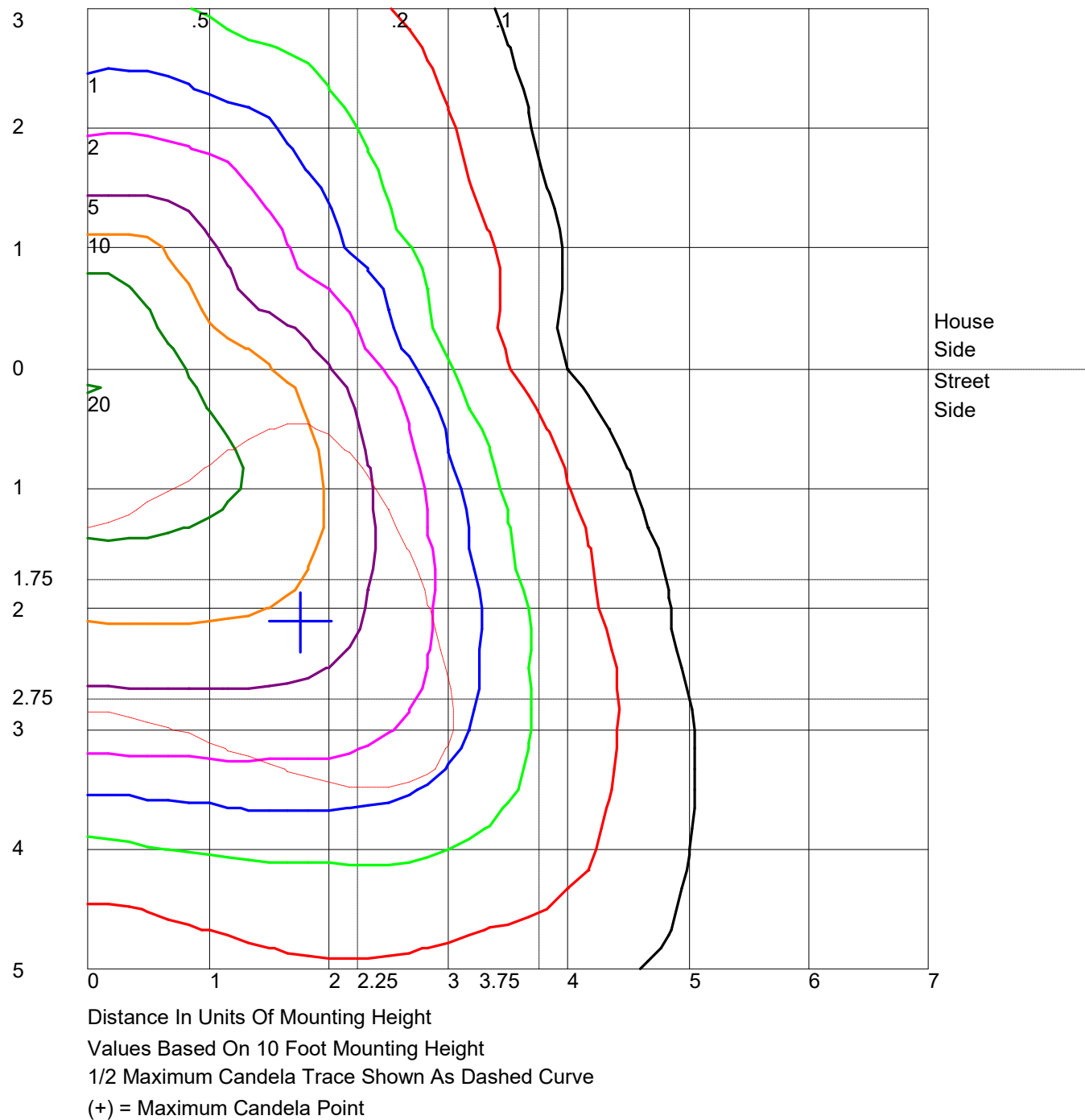
	Lumens	Percent Of Luminaire
Downward Street Side	21463.2	74.5
Downward House Side	7287.8	25.3
Downward Total	28751.0	99.8
Upward Street Side	29.6	0.1
Upward House Side	23.9	0.1
Upward Total	53.5	0.2
Total Flux	28804.5	100.0

POLAR GRAPH

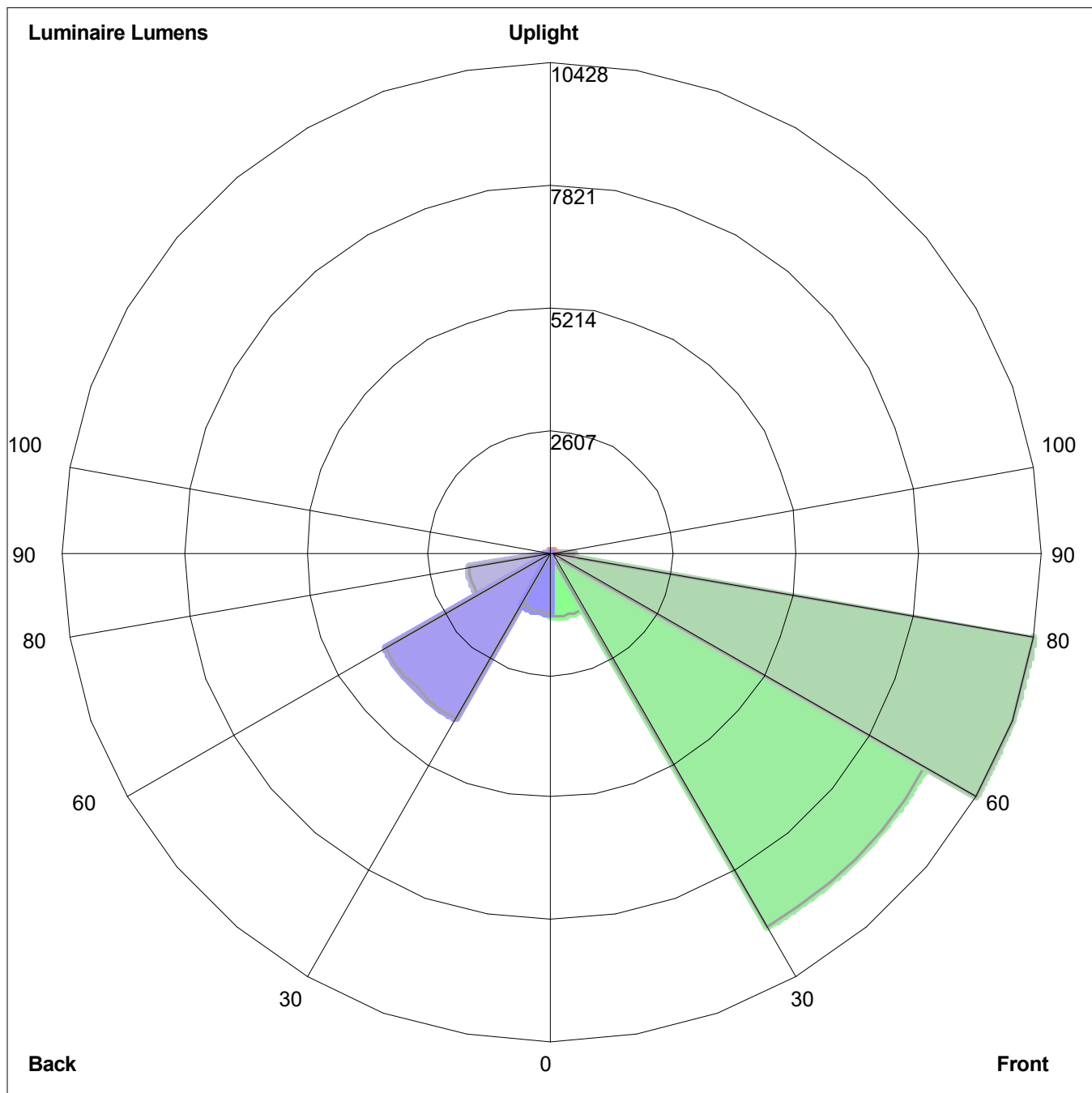


Maximum Candela = 20006 Located At Horizontal Angle = 40, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1367.2, Medium=9191.5, High=10428.1, Very High=476.4
Back: Low= 1278.0, Medium=4065.4, High=1797.2, Very High=147.2
Uplight: Low=15.9, High=37.6

BUG Rating : B3-U2-G4