



## IES ROAD REPORT

PHOTOMETRIC FILENAME : XCN4-PT-2-LED-25L-30.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-30  
[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] 3000

### CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25057
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	232
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	20250
Maximum Candela Angle	77.5H 65V
Maximum Candela (<90 Degrees Vertical)	20250
Maximum Candela Angle (<90 Degrees Vertical)	77.5H 65V
Maximum Candela At 90 Degrees Vertical	40 (0.2% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1324 (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)	1437.9	N.A.	5.7
FM - Front-Medium (30-60)	9715.2	N.A.	38.8
FH - Front-High (60-80)	4970.1	N.A.	19.8
FVH - Front-Very High (80-90)	129.0	N.A.	0.5
BL - Back-Low (0-30)	1262.8	N.A.	5.0
BM - Back-Medium (30-60)	5427.8	N.A.	21.7
BH - Back-High (60-80)	1901.3	N.A.	7.6
BVH - Back-Very High (80-90)	189.5	N.A.	0.8
UL - Uplight-Low (90-100)	11.0	N.A.	0.0
UH - Uplight-High (100-180)	12.3	N.A.	0.0
Total	25056.9	N.A.	100.0
BUG Rating	B4-U2-G3		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>0.0</b>	<b>5.0</b>	<b>15.0</b>	<b>25.0</b>	<b>35.0</b>	<b>45.0</b>	<b>55.0</b>	<b>65.0</b>	<b>75.0</b>	<b>77.5</b>
<b>0.0</b>	2192	2192	2192	2192	2192	2192	2192	2192	2192	2192
<b>2.5</b>	2348	2321	2299	2258	2221	2187	2167	2139	2143	2142
<b>5.0</b>	2234	2242	2212	2202	2265	2312	2296	2282	2168	2156
<b>7.5</b>	2265	2256	2229	2264	2186	2195	2192	2352	2257	2214
<b>10.0</b>	2387	2362	2417	2354	2323	2308	2277	2343	2490	2434
<b>12.5</b>	2496	2522	2521	2486	2477	2524	2432	2483	2577	2620
<b>15.0</b>	2729	2724	2771	2707	2637	2681	2733	2676	2830	2883
<b>17.5</b>	2969	2905	2955	2924	2980	2920	2977	3022	3070	3143
<b>20.0</b>	3303	3274	3183	3102	3197	3269	3281	3375	3431	3454
<b>22.5</b>	3488	3468	3463	3463	3377	3521	3606	3749	3747	3816
<b>25.0</b>	3873	3895	3833	3703	3745	3772	4015	4200	4265	4319
<b>27.5</b>	4203	4232	4204	4177	4022	4172	4334	4635	4828	4898
<b>30.0</b>	4712	4754	4657	4526	4531	4517	4653	5128	5417	5480
<b>32.5</b>	5087	5142	5175	5167	4948	4976	5072	5577	5968	5976
<b>35.0</b>	5677	5685	5707	5666	5517	5451	5519	5920	6436	6460
<b>37.5</b>	6393	6445	6407	6305	6099	5964	5910	6285	6987	7022
<b>40.0</b>	7240	7304	7299	7127	6880	6615	6445	6543	7530	7591
<b>42.5</b>	8115	8193	8218	8162	7847	7431	7056	6859	8047	8162
<b>45.0</b>	8793	8882	8991	9181	8925	8461	7822	7196	8566	8773
<b>47.5</b>	9035	9123	9363	9767	9847	9692	8954	7716	9169	9513
<b>50.0</b>	8761	8831	9122	9748	10347	10926	10502	8603	10010	10473
<b>52.5</b>	7960	7958	8312	9078	10142	11700	12251	9874	11202	11912
<b>55.0</b>	6651	6603	6945	7793	9169	11655	14024	11515	12644	13575
<b>57.5</b>	4669	4792	5094	5902	7433	10583	15122	13718	14377	15449
<b>60.0</b>	2985	3070	3253	3825	5139	8340	15321	16010	16200	17326
<b>62.5</b>	2020	2027	2090	2395	3130	5247	14246	17249	18160	19216
<b>65.0</b>	1484	1489	1530	1714	2007	2925	11353	16954	19206	20250
<b>67.5</b>	1119	1134	1171	1292	1519	1898	7437	14772	18514	19359
<b>70.0</b>	860	885	895	1013	1201	1400	4131	10840	15071	14949
<b>72.5</b>	622	656	644	766	953	1107	2235	6742	8754	7786
<b>75.0</b>	370	391	363	481	682	885	1383	3862	3916	3148
<b>77.5</b>	265	301	250	294	395	638	909	2260	1936	1508
<b>80.0</b>	260	294	228	224	272	416	565	1324	1091	865
<b>82.5</b>	312	316	220	169	200	296	312	759	679	559
<b>85.0</b>	303	305	182	122	134	190	198	265	347	306
<b>87.5</b>	153	146	90	50	44	70	81	91	102	106
<b>90.0</b>	6	7	5	4	4	6	16	32	38	40
<b>92.5</b>	4	4	4	4	3	5	15	31	38	38
<b>95.0</b>	4	4	4	4	3	4	13	28	37	37
<b>97.5</b>	4	3	3	4	3	4	10	25	32	32
<b>100.0</b>	4	3	3	4	3	3	6	18	25	26
<b>102.5</b>	4	3	3	3	3	3	3	10	16	16
<b>105.0</b>	3	3	3	3	1	1	1	4	7	9
<b>107.5</b>	3	3	3	3	1	0	0	0	3	3
<b>110.0</b>	3	3	3	3	1	0	0	0	0	0
<b>112.5</b>	3	3	3	3	1	0	0	0	0	0
<b>115.0</b>	4	3	3	3	1	0	0	0	0	0
<b>117.5</b>	4	3	3	3	1	0	0	0	0	0
<b>120.0</b>	4	4	3	3	1	0	0	0	0	0
<b>122.5</b>	4	4	4	4	1	1	0	0	0	0
<b>125.0</b>	5	5	4	4	3	1	0	0	0	0
<b>127.5</b>	5	5	4	4	3	1	0	0	0	0
<b>130.0</b>	6	6	5	4	3	1	1	0	0	0

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**CANDELA TABULATION - (Cont.)**

132.5	7	7	6	5	3	3	1	0	0	0
135.0	9	7	6	5	4	3	1	0	0	0
137.5	9	9	7	6	4	3	1	1	0	0
140.0	10	10	7	6	4	3	1	1	0	0
142.5	9	9	7	5	4	3	1	1	0	0
145.0	5	5	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	2192	2192	2192	2192	2192	2192	2192	2192	2192	2192
2.5	2154	2151	2148	2129	2121	2102	2123	2152	2160	2171
5.0	2142	2068	2061	2084	2101	2086	2156	2064	1984	1949
7.5	2132	2129	2090	2089	2133	1973	1855	1821	1855	1810
10.0	2251	2170	2149	2253	2063	1912	1839	1821	1819	1870
12.5	2498	2355	2359	2339	2076	1930	1945	1898	1917	1969
15.0	2708	2558	2537	2477	2127	2073	2008	2040	2115	2226
17.5	2983	2852	2773	2579	2283	2168	2195	2342	2446	2596
20.0	3344	3183	3111	2743	2427	2332	2449	2663	2770	2991
22.5	3728	3596	3416	2888	2558	2553	2762	2994	3400	3648
25.0	4263	4001	3874	3122	2752	2826	3071	3544	3899	4297
27.5	4791	4496	4416	3386	2994	3119	3584	4023	4635	4995
30.0	5369	5017	4872	3619	3264	3463	3991	4633	5089	5501
32.5	5821	5411	5195	3847	3542	3793	4435	4995	5629	5975
35.0	6327	5838	5552	4037	3803	4194	4734	5332	5855	6094
37.5	6880	6302	5935	4250	4009	4373	4894	5450	5843	6007
40.0	7460	6795	6333	4484	4169	4513	4945	5420	5630	5693
42.5	8118	7325	6779	4694	4349	4595	4860	5184	5244	5176
45.0	8811	7935	7225	4931	4441	4558	4698	4818	4753	4585
47.5	9654	8611	7696	5155	4498	4466	4459	4412	4187	4027
50.0	10744	9469	8209	5360	4548	4318	4165	3997	3734	3580
52.5	12153	10387	8748	5555	4569	4102	3829	3685	3383	3250
55.0	13761	11398	9199	5696	4479	3813	3560	3422	3046	2910
57.5	15471	12357	9467	5717	4306	3471	3286	3141	2648	2514
60.0	17059	13036	9370	5494	4013	3061	2925	2764	2248	2143
62.5	18031	13009	8638	4911	3516	2586	2490	2342	1864	1752
65.0	17859	11859	6991	3968	2865	2058	1999	1905	1519	1404
67.5	15430	9256	4794	2827	2174	1604	1602	1522	1244	1216
70.0	10625	5788	2934	1904	1620	1289	1321	1233	1104	1119
72.5	4553	2814	1839	1335	1244	1066	1119	1072	1011	1026
75.0	1711	1333	1219	997	995	916	966	958	889	828
77.5	916	810	852	809	801	800	843	735	572	468

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**CANDELA TABULATION - (Cont.)**

80.0	616	516	532	672	671	678	570	391	494	447
82.5	402	276	292	538	548	424	297	316	603	609
85.0	229	138	159	375	313	219	228	326	650	641
87.5	87	45	67	118	90	103	131	235	460	500
90.0	34	5	23	18	10	5	3	3	1	1
92.5	34	5	25	18	12	5	3	3	1	1
95.0	34	4	26	19	12	5	4	3	1	1
97.5	31	4	25	18	12	5	4	3	1	1
100.0	25	4	19	16	10	5	3	1	1	1
102.5	16	3	16	12	7	5	3	1	1	1
105.0	9	1	9	7	6	4	3	1	1	1
107.5	4	1	5	5	5	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	5	5	5	4	4	4
135.0	0	1	3	4	5	5	5	5	4	4
137.5	0	1	1	4	5	5	5	5	5	4
140.0	0	1	1	3	5	5	5	5	5	4
142.5	0	0	1	3	4	5	5	5	5	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	2192	2192
2.5	2171	2176
5.0	1983	1949
7.5	1801	1798
10.0	1810	1842
12.5	1987	1969
15.0	2245	2277
17.5	2601	2696
20.0	3214	3271
22.5	3796	3868
25.0	4582	4592

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XCN4-PT-2-LED-25L-30.IES**

**CANDELA TABULATION - (Cont.)**

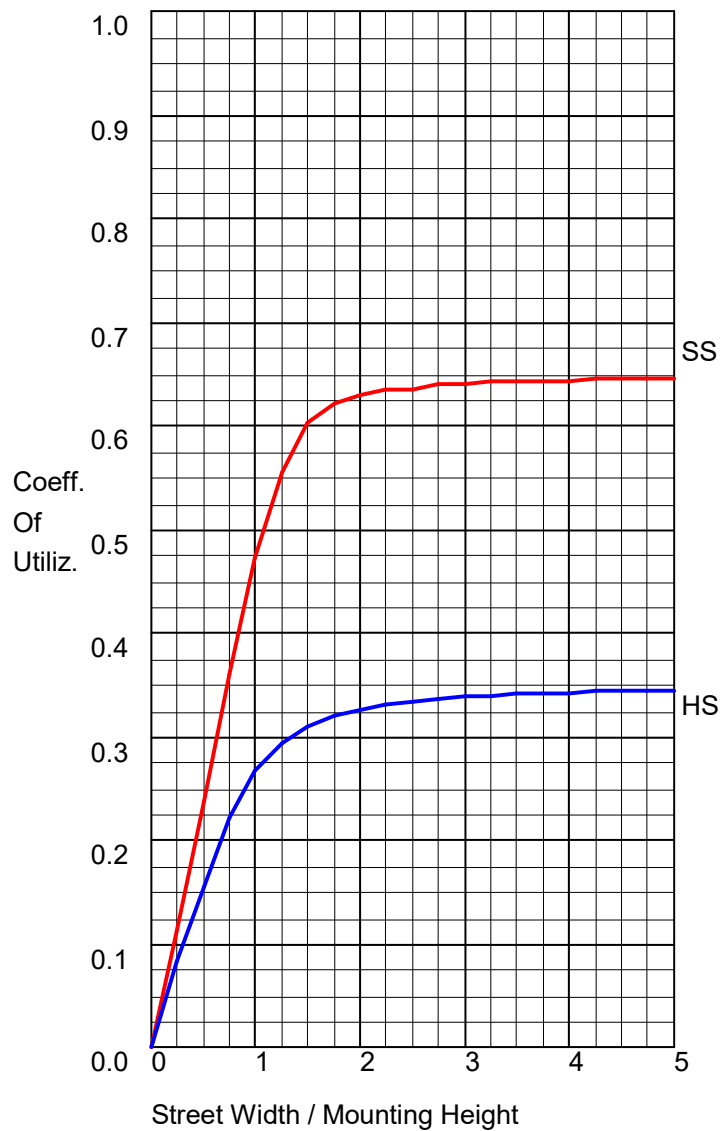
27.5	5166	5224
30.0	5794	5776
32.5	6063	6051
35.0	6130	6114
37.5	5976	5952
40.0	5602	5570
42.5	5067	5035
45.0	4459	4425
47.5	3909	3882
50.0	3497	3471
52.5	3170	3145
55.0	2795	2786
57.5	2421	2414
60.0	2052	2011
62.5	1665	1655
65.0	1399	1413
67.5	1288	1325
70.0	1231	1295
72.5	1148	1246
75.0	875	962
77.5	497	581
80.0	499	561
82.5	666	685
85.0	675	685
87.5	415	515
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

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XCN4-PT-2-LED-25L-30.IES**

**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	0	0
<b>170.0</b>	0	0
<b>172.5</b>	0	0
<b>175.0</b>	0	0
<b>177.5</b>	0	0
<b>180.0</b>	0	0

### COEFFICIENTS OF UTILIZATION

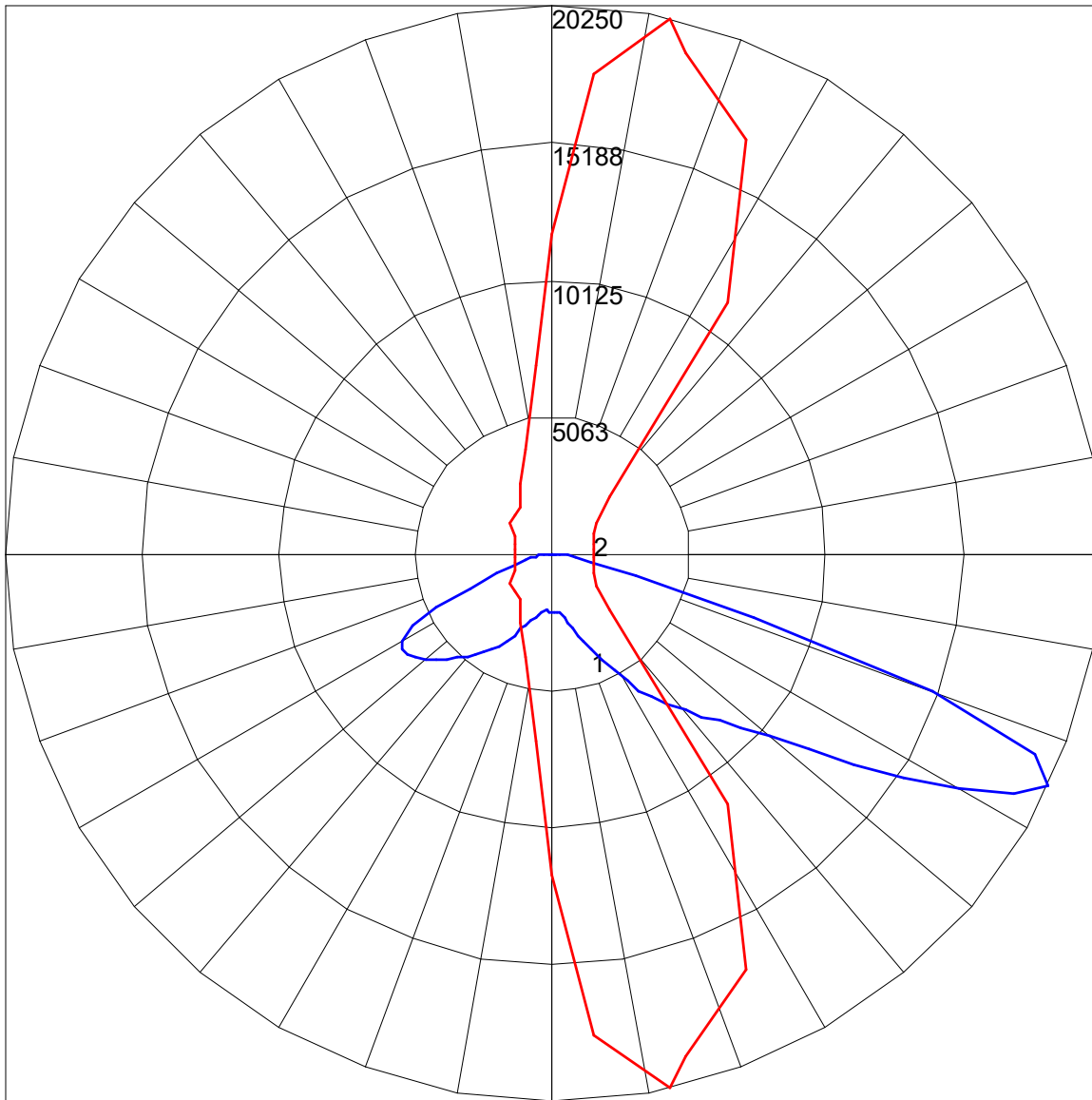


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	16252.2	64.9
Downward House Side	8781.4	35.0
Downward Total	25033.6	99.9
Upward Street Side	12.6	0.1
Upward House Side	10.6	0.0
Upward Total	23.2	0.1
Total Flux	25056.8	100.0

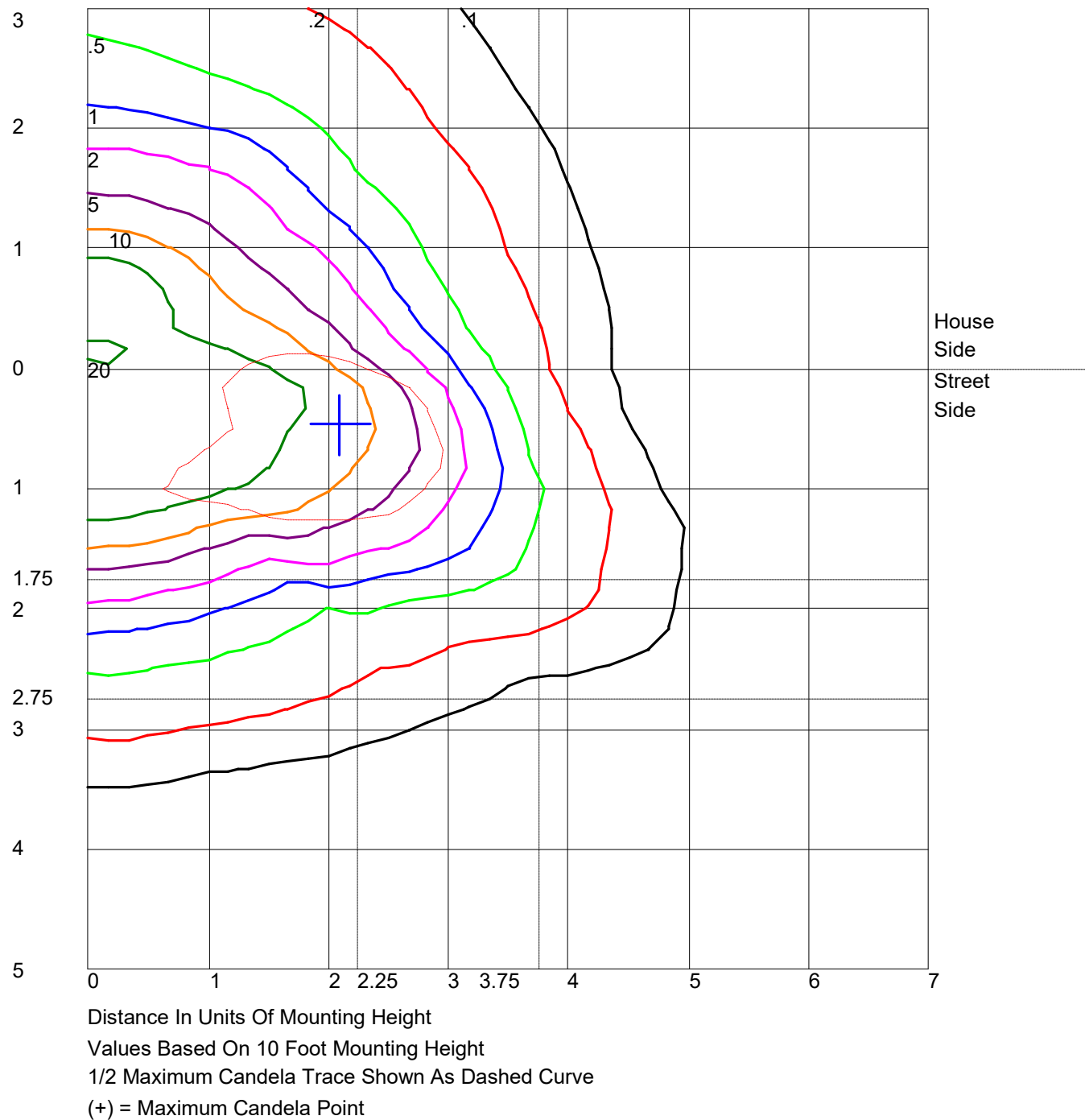


POLAR GRAPH

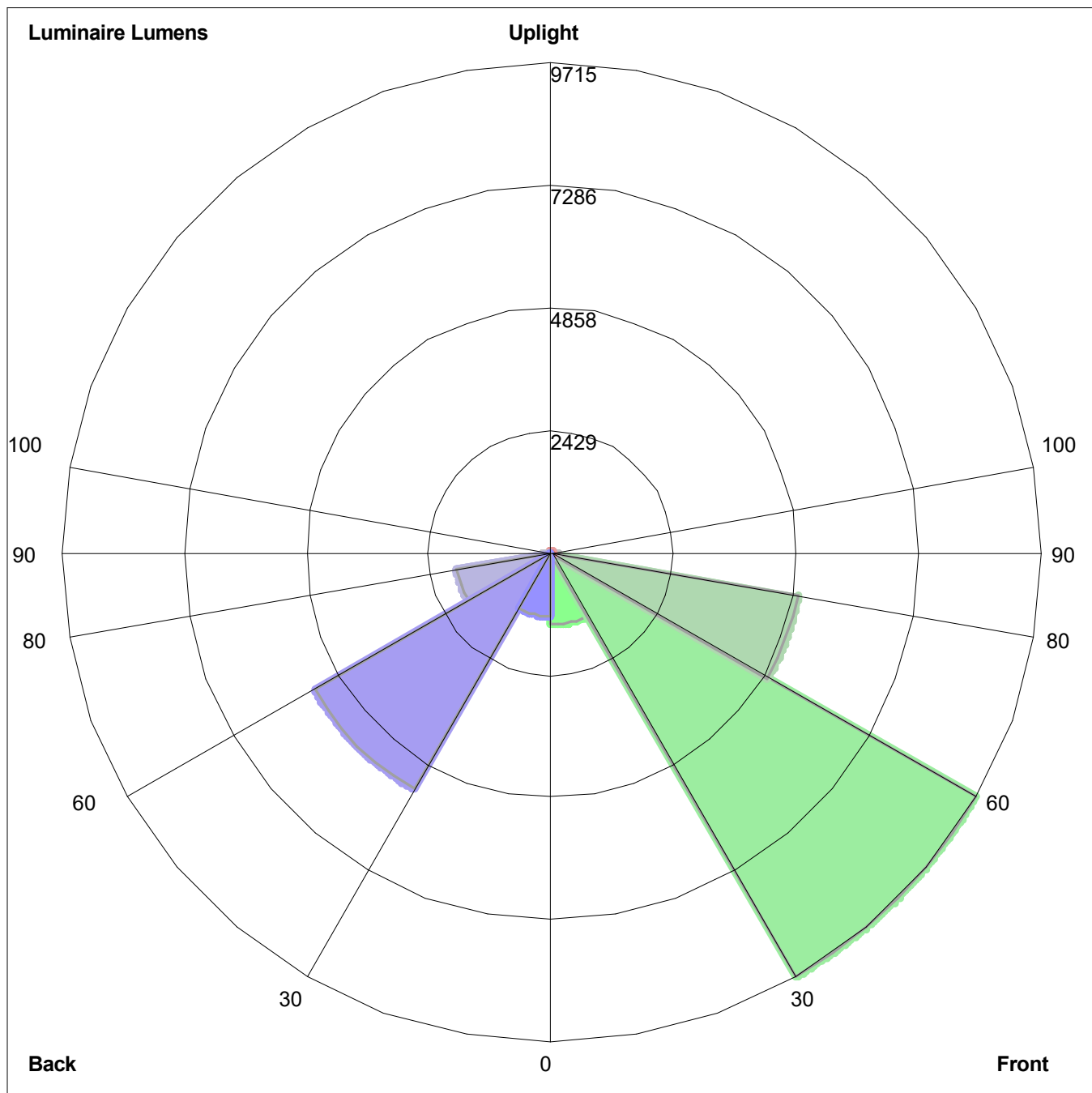


Maximum Candela = 20250 Located At Horizontal Angle = 77.5, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1437.9, Medium=9715.2, High=4970.1, Very High=129.0  
Back: Low=1262.8, Medium=5427.8, High=1901.3, Very High=189.5  
Uplight: Low=11.0, High=12.3

BUG Rating : B4-U2-G3