



IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-FT-LED-25L-30.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-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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	26560
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	232
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	18448
Maximum Candela Angle	40H 70V
Maximum Candela (<90 Degrees Vertical)	18448
Maximum Candela Angle (<90 Degrees Vertical)	40H 70V
Maximum Candela At 90 Degrees Vertical	119 (0.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	4252 (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)	1260.7	N.A.	4.7
FM - Front-Medium (30-60)	8475.6	N.A.	31.9
FH - Front-High (60-80)	9615.8	N.A.	36.2
FVH - Front-Very High (80-90)	439.3	N.A.	1.7
BL - Back-Low (0-30)	1178.4	N.A.	4.4
BM - Back-Medium (30-60)	3748.7	N.A.	14.1
BH - Back-High (60-80)	1657.3	N.A.	6.2
BVH - Back-Very High (80-90)	135.8	N.A.	0.5
UL - Uplight-Low (90-100)	14.6	N.A.	0.1
UH - Uplight-High (100-180)	33.8	N.A.	0.1
Total	26560.0	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	2148	2148	2148	2148	2148	2148	2148	2148	2148	2148
2.5	2126	2127	2136	2127	2120	2104	2092	2105	2101	2095
5.0	1964	1939	1940	1947	2011	2033	2098	2117	2119	2092
7.5	1821	1775	1788	1807	1845	1859	1872	1949	2151	2117
10.0	1836	1805	1837	1854	1868	1855	1886	1930	2042	2302
12.5	1892	1888	1901	1892	1924	1961	2022	2005	2098	2342
15.0	2073	2051	2086	2057	2032	2067	2095	2227	2235	2512
17.5	2383	2301	2327	2260	2302	2284	2301	2408	2539	2693
20.0	2928	2883	2707	2546	2614	2627	2633	2663	2798	2942
22.5	3378	3330	3247	3148	2964	2974	2993	3002	3078	3178
25.0	3991	4018	3807	3650	3515	3519	3364	3374	3393	3477
27.5	4437	4432	4420	4298	3999	3959	3918	3715	3688	3752
30.0	5003	5030	4915	4738	4629	4509	4376	4110	3948	3940
32.5	5322	5354	5407	5356	5089	5003	4901	4475	4213	4097
35.0	5632	5671	5742	5735	5586	5472	5364	4953	4429	4162
37.5	5962	6023	6083	6088	5980	5917	5754	5286	4681	4294
40.0	6383	6409	6467	6473	6416	6307	6171	5713	4966	4460
42.5	6827	6855	6911	6950	6887	6777	6605	6231	5295	4688
45.0	7346	7406	7441	7516	7443	7346	7153	6780	5755	5039
47.5	7936	8011	8097	8200	8153	8012	7812	7434	6330	5482
50.0	8557	8646	8772	9016	8954	8828	8589	8289	7132	6036
52.5	9164	9282	9437	9866	9873	9757	9536	9348	7953	6737
55.0	9618	9763	10054	10692	10843	10819	10706	10661	9070	7561
57.5	10042	10254	10594	11421	11960	12135	12159	12165	10241	8443
60.0	10647	10921	11370	12298	13203	13664	13796	13767	11355	9067
62.5	11268	11608	12161	13382	14735	15418	15524	15183	12185	9404
65.0	11705	11962	12793	14476	16317	17191	17141	16037	12355	8973
67.5	11323	11517	12712	15162	17509	18333	18197	15841	11430	7578
70.0	9964	10158	11586	14843	17945	18448	18042	14401	9208	5358
72.5	7152	7324	9001	12519	17069	17448	16656	11447	5988	2958
75.0	3465	3671	5332	8568	13173	13982	12941	7465	3371	1839
77.5	1623	1745	2687	4528	7764	8743	8137	4292	2154	1211
80.0	863	948	1740	2738	3603	4252	4218	2631	1311	737
82.5	582	642	1180	1754	2070	2290	2328	1330	798	406
85.0	425	478	861	1179	1404	1222	919	551	387	235
87.5	275	306	563	547	682	450	171	185	127	103
90.0	66	94	119	67	43	31	26	23	23	22
92.5	4	4	5	9	15	16	19	22	25	22
95.0	4	3	5	9	16	18	21	23	25	23
97.5	4	3	5	9	15	16	19	21	25	23
100.0	3	3	5	7	10	12	13	16	19	19
102.5	3	3	4	6	7	9	9	12	15	16
105.0	3	3	4	6	6	7	7	9	10	12
107.5	3	3	4	5	6	6	6	7	7	9
110.0	3	3	4	5	6	6	6	6	7	7
112.5	3	3	4	5	6	6	6	6	6	7
115.0	3	3	4	5	6	6	6	6	6	7
117.5	3	3	4	5	6	6	6	6	6	7
120.0	3	3	4	6	6	6	6	6	7	7
122.5	4	4	5	6	6	6	6	7	7	7
125.0	4	4	5	6	6	6	7	7	7	7
127.5	5	5	5	6	7	7	7	7	7	9
130.0	5	5	5	6	7	7	7	7	9	9

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CANDELA TABULATION - (Cont.)

132.5	6	6	6	7	7	7	7	9	9	9
135.0	7	7	6	7	7	9	9	9	9	9
137.5	9	7	7	7	9	9	9	9	9	9
140.0	9	9	9	9	9	9	9	9	9	9
142.5	9	7	7	7	9	7	9	7	9	9
145.0	4	4	5	6	6	6	6	6	6	6
147.5	1	1	3	4	5	5	5	4	4	5
150.0	1	1	3	4	5	5	4	4	4	5
152.5	1	1	3	4	5	4	4	4	4	5
155.0	1	1	3	4	4	4	4	4	4	5
157.5	1	1	3	4	4	4	4	4	4	5
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	5
170.0	1	1	3	4	4	4	4	4	4	5
172.5	1	1	3	4	4	4	4	4	4	5
175.0	1	1	3	4	4	4	4	4	4	5
177.5	1	1	3	4	4	4	4	4	4	5
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	2148	2148	2148	2148	2148	2148	2148	2148	2148	2148
2.5	2110	2114	2098	2107	2134	2136	2138	2164	2183	2211
5.0	2067	2049	2073	2108	2159	2201	2252	2179	2111	2117
7.5	2090	2084	2099	2130	2245	2102	2022	2010	2005	2001
10.0	2168	2120	2168	2328	2201	2096	2052	2098	2095	2102
12.5	2358	2290	2352	2456	2261	2181	2205	2202	2199	2258
15.0	2513	2473	2521	2596	2350	2374	2314	2315	2352	2399
17.5	2755	2686	2712	2759	2549	2511	2452	2505	2537	2565
20.0	3064	2983	3000	2920	2742	2659	2645	2650	2652	2742
22.5	3322	3277	3317	3093	2899	2800	2800	2787	2899	2986
25.0	3619	3524	3586	3272	3027	2959	2901	3002	3065	3193
27.5	3890	3735	3774	3371	3152	3047	3053	3139	3311	3428
30.0	4018	3886	3928	3493	3196	3158	3200	3346	3444	3600
32.5	4051	3880	3932	3456	3246	3199	3337	3417	3637	3794
35.0	4069	3868	3906	3409	3212	3272	3400	3528	3699	3853
37.5	4111	3869	3885	3331	3144	3267	3381	3499	3712	3899
40.0	4194	3900	3882	3277	3058	3219	3328	3456	3714	3971
42.5	4328	3969	3902	3181	2950	3156	3255	3397	3752	4038
45.0	4532	4098	3962	3122	2853	3062	3135	3320	3855	3827
47.5	4858	4318	4113	3090	2717	2936	3012	3231	3906	3491
50.0	5299	4619	4303	3081	2579	2818	2866	3178	3693	3209
52.5	5861	5010	4528	3095	2427	2677	2727	3145	3400	2969
55.0	6471	5391	4763	3117	2302	2536	2596	3029	3119	2752
57.5	6993	5711	4941	3105	2159	2392	2448	2842	2837	2496
60.0	7268	5864	4891	3059	2022	2248	2283	2637	2490	2268
62.5	7158	5667	4409	2928	1849	2071	2132	2379	2221	2112
65.0	6412	4869	3432	2597	1678	1892	1956	2192	1999	1987
67.5	4985	3634	2320	2105	1488	1692	1786	2045	1802	1877
70.0	3126	2227	1455	1542	1266	1463	1626	1867	1623	1770
72.5	1589	1184	986	1117	1050	1241	1447	1635	1447	1632
75.0	1060	750	673	812	810	1000	1231	1376	1223	1369
77.5	671	456	433	556	610	779	991	1008	797	841

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CANDELA TABULATION - (Cont.)

80.0	366	263	301	401	473	606	659	543	475	565
82.5	232	173	209	292	356	347	357	402	322	402
85.0	142	91	124	191	184	191	225	231	163	254
87.5	60	26	52	70	75	85	91	90	66	107
90.0	16	6	9	10	9	9	7	6	7	9
92.5	16	6	10	10	10	9	7	5	3	0
95.0	16	7	12	12	12	10	9	6	4	1
97.5	16	9	15	15	13	13	12	9	5	3
100.0	16	9	13	13	15	13	12	10	6	4
102.5	15	9	12	13	13	13	12	10	7	5
105.0	12	9	10	12	12	12	12	9	7	5
107.5	10	7	10	10	12	10	10	7	6	5
110.0	9	7	9	10	10	10	9	7	6	4
112.5	7	7	9	10	10	10	9	7	6	4
115.0	7	7	9	10	10	10	9	7	6	5
117.5	7	9	9	10	10	10	9	9	7	5
120.0	7	9	9	10	10	10	10	9	7	5
122.5	7	9	9	10	10	10	10	9	7	5
125.0	9	9	9	10	10	10	9	9	7	5
127.5	9	9	9	10	10	10	9	9	6	5
130.0	9	9	9	10	10	10	9	7	6	5
132.5	9	9	9	10	10	10	9	7	6	5
135.0	9	9	9	10	10	9	7	6	5	4
137.5	9	9	9	10	10	9	7	6	5	4
140.0	9	9	9	10	10	9	7	5	5	3
142.5	7	9	9	9	9	7	6	5	4	3
145.0	6	6	7	7	6	5	4	3	1	0
147.5	5	5	6	6	5	4	3	0	0	0
150.0	5	5	5	5	5	4	1	0	0	0
152.5	5	5	5	5	5	4	1	0	0	0
155.0	5	5	5	5	5	3	1	0	0	0
157.5	5	5	5	5	4	3	1	0	0	0
160.0	5	5	5	5	4	3	1	0	0	0
162.5	5	5	5	5	4	3	1	0	0	0
165.0	5	5	5	5	4	3	0	0	0	0
167.5	5	5	5	5	4	3	1	0	0	0
170.0	5	5	5	5	4	3	1	0	0	0
172.5	5	5	5	5	4	3	1	0	0	0
175.0	5	5	5	5	4	3	1	0	0	0
177.5	5	5	5	5	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	2148	2148
2.5	2205	2199
5.0	2112	2130
7.5	2032	2009
10.0	2074	2110
12.5	2253	2256
15.0	2406	2415
17.5	2608	2656
20.0	2871	2897
22.5	3092	3115
25.0	3312	3358

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CANDELA TABULATION - (Cont.)

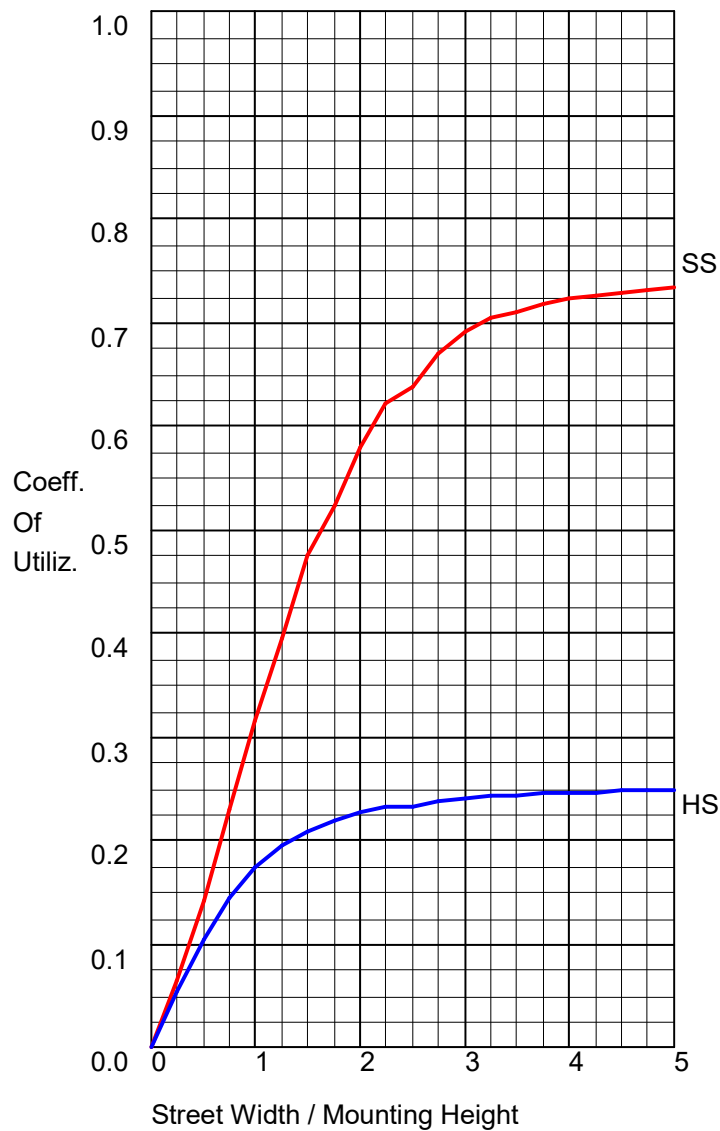
27.5	3514	3518
30.0	3732	3740
32.5	3822	3812
35.0	3853	3840
37.5	3895	3872
40.0	3925	3887
42.5	3706	3624
45.0	3355	3287
47.5	3111	3060
50.0	2914	2868
52.5	2723	2678
55.0	2530	2483
57.5	2274	2226
60.0	2084	2024
62.5	1947	1879
65.0	1861	1791
67.5	1814	1736
70.0	1777	1699
72.5	1720	1655
75.0	1507	1447
77.5	1054	1055
80.0	904	963
82.5	733	798
85.0	523	595
87.5	298	375
90.0	27	37
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
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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

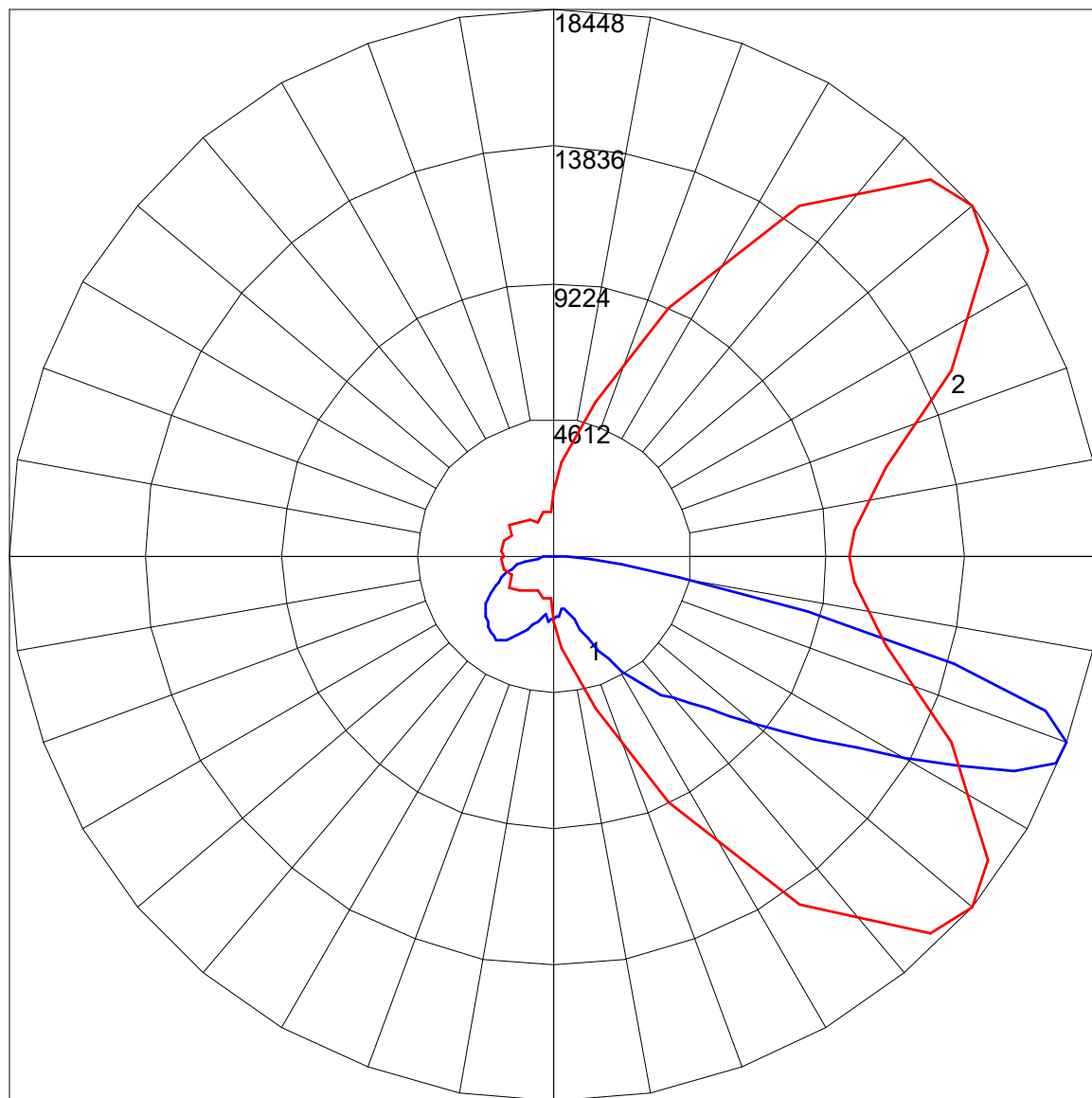
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

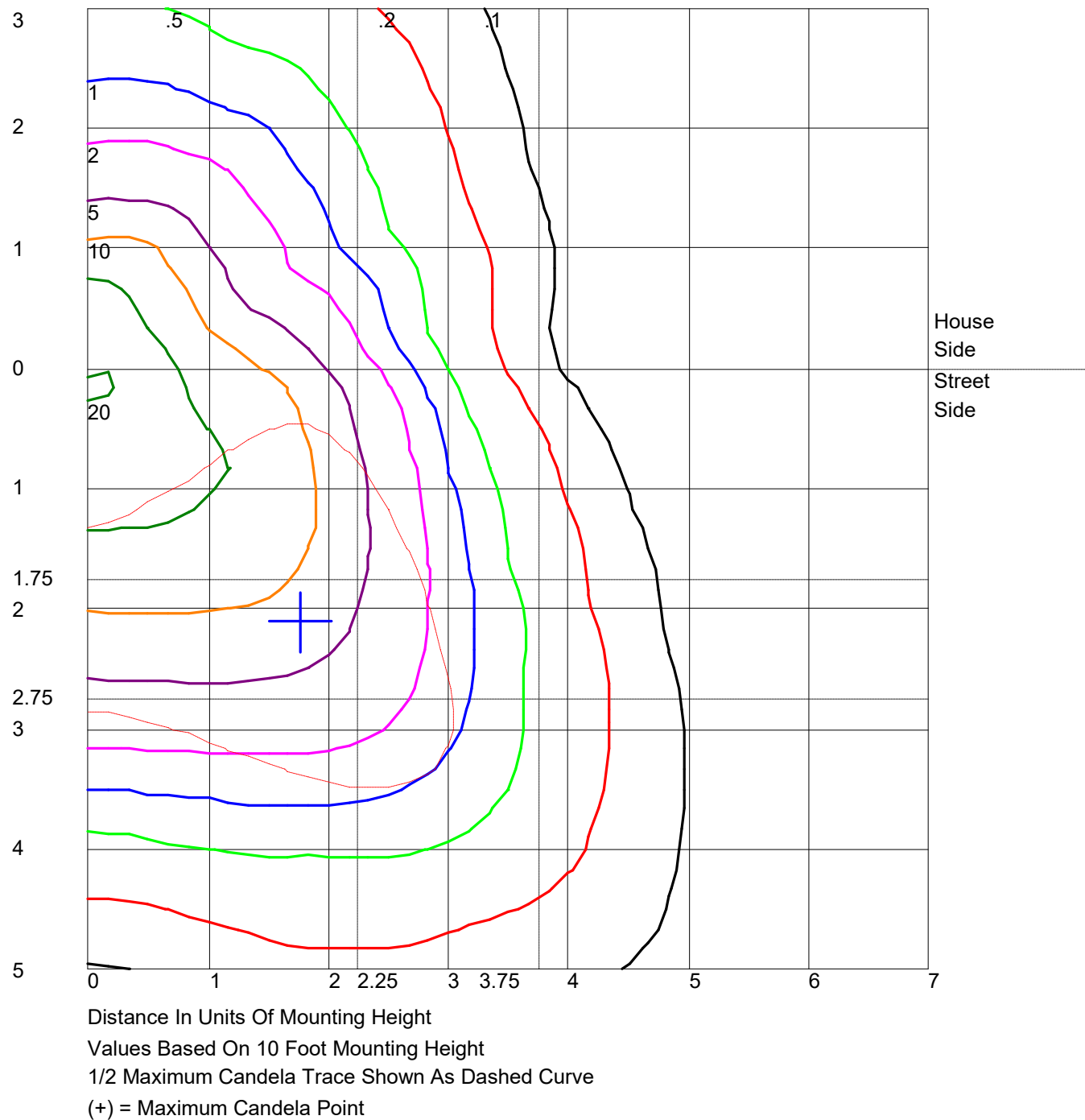
	Lumens	Percent Of Luminaire
Downward Street Side	19791.3	74.5
Downward House Side	6720.2	25.3
Downward Total	26511.5	99.8
Upward Street Side	26.8	0.1
Upward House Side	21.6	0.1
Upward Total	48.4	0.2
Total Flux	26559.9	100.0

POLAR GRAPH

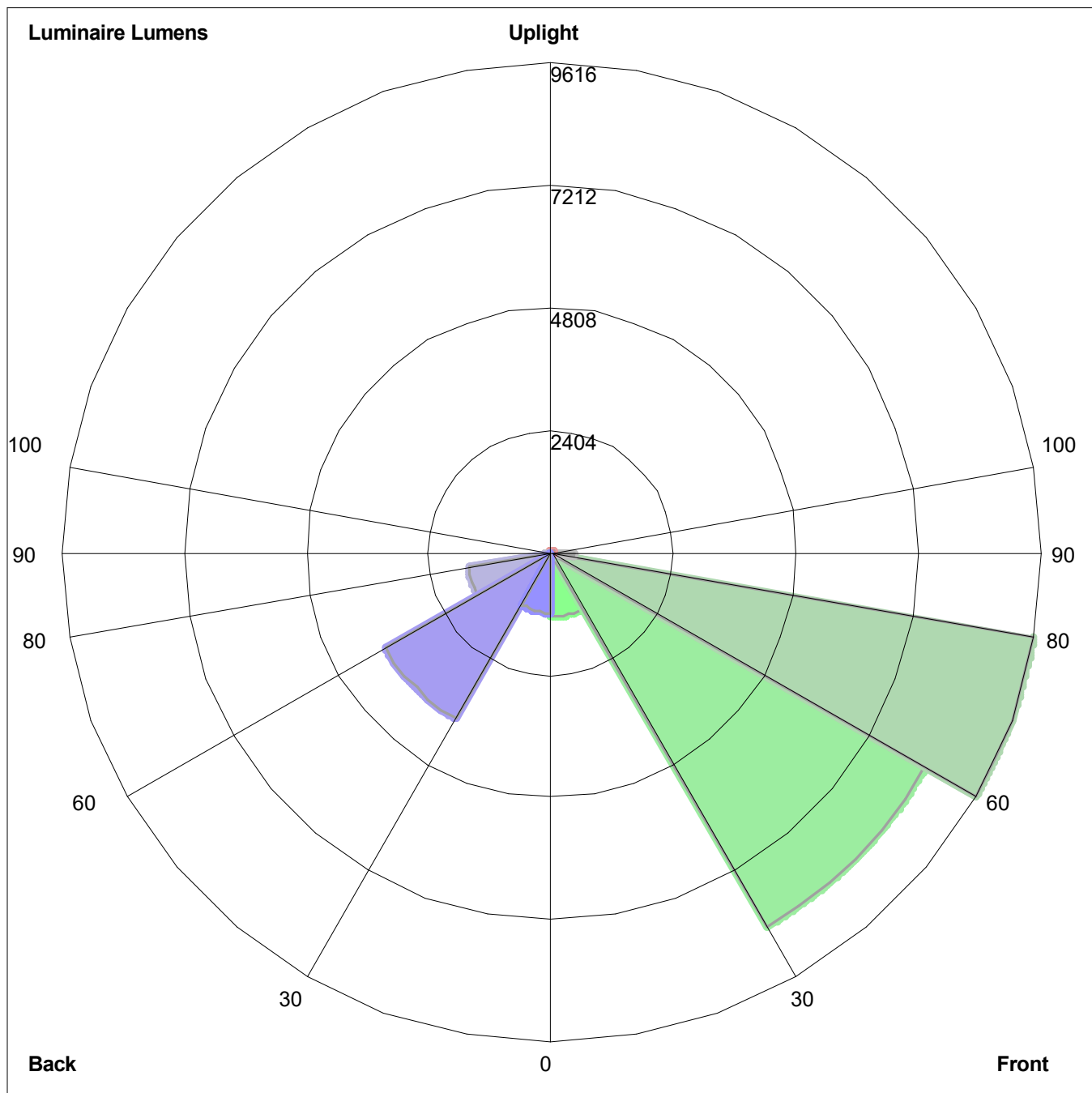


Maximum Candela = 18448 Located At Horizontal Angle = 40, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1260.7, Medium=8475.6, High=9615.8, Very High=439.3
Back: Low=1178.4, Medium=3748.7, High=1657.3, Very High=135.8
Uplight: Low=14.6, High=33.8

BUG Rating : B3-U2-G4