

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-827-XXX-DIM-UNV-W-XXX_.IES_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] W4CR_BARBARA-WIDE DIST
[TESTLAB] LEDIL Inc
[TESTDATE] 07/03/2025
[ISSUEDATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] W4CR-xx-L25-827-xxx-DIM-UNV-W-xxx_
[LUMINAIRE] 4 INCH ROUND OUTDOOR LED CYLINDER
[MORE] WIDE DIST. W/MICROPRISM LENS
[MORE] 0-10V LED DRIVER

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2538
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3198.976
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	3198.976
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.398 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.812 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-827-XXX-DIM-UNV-W-XXX_.IES_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	982.3	N.A.	38.7
FM - Front-Medium (30-60)	274.2	N.A.	10.8
FH - Front-High (60-80)	11.7	N.A.	0.5
FVH - Front-Very High (80-90)	0.6	N.A.	0.0
BL - Back-Low (0-30)	982.3	N.A.	38.7
BM - Back-Medium (30-60)	274.2	N.A.	10.8
BH - Back-High (60-80)	11.7	N.A.	0.5
BVH - Back-Very High (80-90)	0.6	N.A.	0.0
UL - Uplight-Low (90-100)	0.4	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	2538.0	N.A.	100.0
BUG Rating	B2-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-827-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION**

Vert. Angles	Horizontal Angles				
	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	3193.665	3193.665	3193.665	3193.665	3193.665
1	3188.562	3188.410	3188.912	3192.744	3196.387
2	3191.331	3190.383	3187.215	3193.437	3198.976
3	3188.334	3184.331	3187.272	3185.299	3192.147
4	3183.572	3180.357	3178.982	3182.671	3189.140
5	3179.276	3177.986	3175.112	3177.711	3181.581
6	3170.274	3171.953	3164.356	3170.189	3166.945
7	3157.583	3162.838	3156.881	3156.825	3153.239
8	3145.699	3144.617	3142.132	3142.597	3143.403
9	3130.466	3126.823	3123.864	3125.439	3124.243
10	3101.641	3102.561	3100.683	3098.823	3097.695
11	3066.147	3068.889	3065.104	3066.631	3062.828
12	3024.707	3021.966	3020.837	3025.428	3023.626
13	2970.718	2969.846	2972.359	2977.529	2977.216
14	2915.743	2911.190	2912.708	2914.823	2920.742
15	2847.223	2844.871	2841.181	2849.632	2846.445
16	2774.065	2767.198	2764.238	2770.309	2774.520
17	2692.787	2684.896	2685.408	2685.048	2694.542
18	2603.979	2599.910	2600.602	2595.205	2605.534
19	2510.314	2506.880	2506.501	2507.345	2513.245
20	2415.179	2414.790	2412.333	2413.614	2421.553
21	2323.259	2319.209	2318.147	2321.353	2323.971
22	2222.850	2226.976	2224.330	2226.995	2230.173
23	2130.551	2129.062	2128.920	2131.139	2138.699
24	2034.022	2032.201	2034.269	2038.888	2041.553
25	1936.544	1935.947	1937.730	1943.563	1944.521
26	1836.572	1837.055	1841.343	1846.085	1845.601
27	1726.630	1729.429	1739.103	1743.381	1739.094
28	1612.990	1613.597	1627.018	1631.438	1624.922
29	1490.443	1493.972	1505.809	1508.759	1504.396
30	1360.659	1363.524	1376.262	1379.193	1373.274
31	1220.461	1227.110	1235.305	1240.929	1238.662
32	1080.243	1087.689	1092.991	1099.422	1097.553
33	938.489	943.042	950.630	956.805	956.729
34	796.725	804.807	810.071	818.939	821.889
35	664.665	673.420	676.113	684.811	689.848
36	545.846	552.353	555.027	561.060	569.928
37	439.357	444.451	447.068	452.465	461.960
38	353.698	352.095	357.368	363.012	368.058
39	276.025	280.530	281.801	287.359	294.056
40	217.037	221.542	224.758	229.405	235.485
41	171.347	175.018	178.793	187.557	195.364
42	137.552	140.236	146.563	151.268	155.422
43	115.092	116.097	120.242	125.611	128.940
44	95.059	96.928	100.902	106.707	108.594
45	81.439	83.061	86.523	90.829	92.745
46	71.261	72.589	75.586	78.963	80.244
47	63.408	64.650	67.002	69.734	70.853
48	57.479	58.485	60.296	62.573	63.759
49	52.765	53.610	55.137	56.910	58.020
50	48.914	49.626	50.935	52.386	53.287
51	45.661	46.249	47.444	48.649	49.408
52	42.616	43.157	44.172	45.177	45.784

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-827-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

53	39.856	40.311	41.156	41.971	42.465
54	37.314	37.732	38.443	39.069	39.486
55	35.019	35.332	35.986	36.480	36.793
56	32.790	33.093	33.643	34.061	34.251
57	30.684	30.921	31.367	31.737	31.860
58	28.626	28.825	29.195	29.508	29.612
59	26.625	26.776	27.061	27.355	27.450
60	24.652	24.784	25.031	25.259	25.363
61	22.802	22.906	23.096	23.286	23.343
62	21.076	21.133	21.265	21.427	21.474
63	19.444	19.492	19.577	19.700	19.767
64	17.936	17.974	18.031	18.135	18.202
65	16.580	16.618	16.627	16.703	16.808
66	15.309	15.347	15.337	15.404	15.470
67	14.161	14.190	14.161	14.209	14.266
68	13.099	13.108	13.089	13.089	13.156
69	12.103	12.093	12.065	12.046	12.093
70	11.154	11.135	11.079	11.041	11.079
71	10.234	10.196	10.121	10.064	10.083
72	9.324	9.286	9.201	9.115	9.153
73	8.442	8.375	8.261	8.176	8.224
74	7.531	7.455	7.341	7.247	7.303
75	6.554	6.497	6.374	6.308	6.345
76	5.482	5.435	5.302	5.274	5.293
77	4.268	4.249	4.117	4.098	4.117
78	2.883	2.883	2.779	2.722	2.741
79	2.001	2.020	1.973	1.963	1.935
80	1.812	1.802	1.793	1.783	1.774
81	1.688	1.688	1.688	1.679	1.679
82	1.593	1.584	1.593	1.584	1.584
83	1.480	1.480	1.489	1.480	1.480
84	1.366	1.356	1.375	1.356	1.356
85	1.233	1.224	1.233	1.224	1.224
86	1.081	1.081	1.081	1.072	1.072
87	0.911	0.901	0.911	0.901	0.892
88	0.721	0.711	0.721	0.711	0.702
89	0.522	0.512	0.512	0.493	0.493
90	0.398	0.379	0.379	0.351	0.332
91	0.370	0.351	0.360	0.341	0.332
92	0.370	0.351	0.360	0.332	0.332
93	0.370	0.360	0.360	0.341	0.332
94	0.370	0.360	0.360	0.341	0.341
95	0.379	0.360	0.360	0.341	0.341
96	0.379	0.360	0.360	0.341	0.341
97	0.379	0.370	0.370	0.351	0.351
98	0.379	0.370	0.379	0.351	0.360
99	0.389	0.379	0.379	0.360	0.360
100	0.389	0.379	0.389	0.360	0.370
101	0.000	0.000	0.000	0.000	0.000
102	0.000	0.000	0.000	0.000	0.000
103	0.000	0.000	0.000	0.000	0.000
104	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000
106	0.000	0.000	0.000	0.000	0.000
107	0.000	0.000	0.000	0.000	0.000
108	0.000	0.000	0.000	0.000	0.000

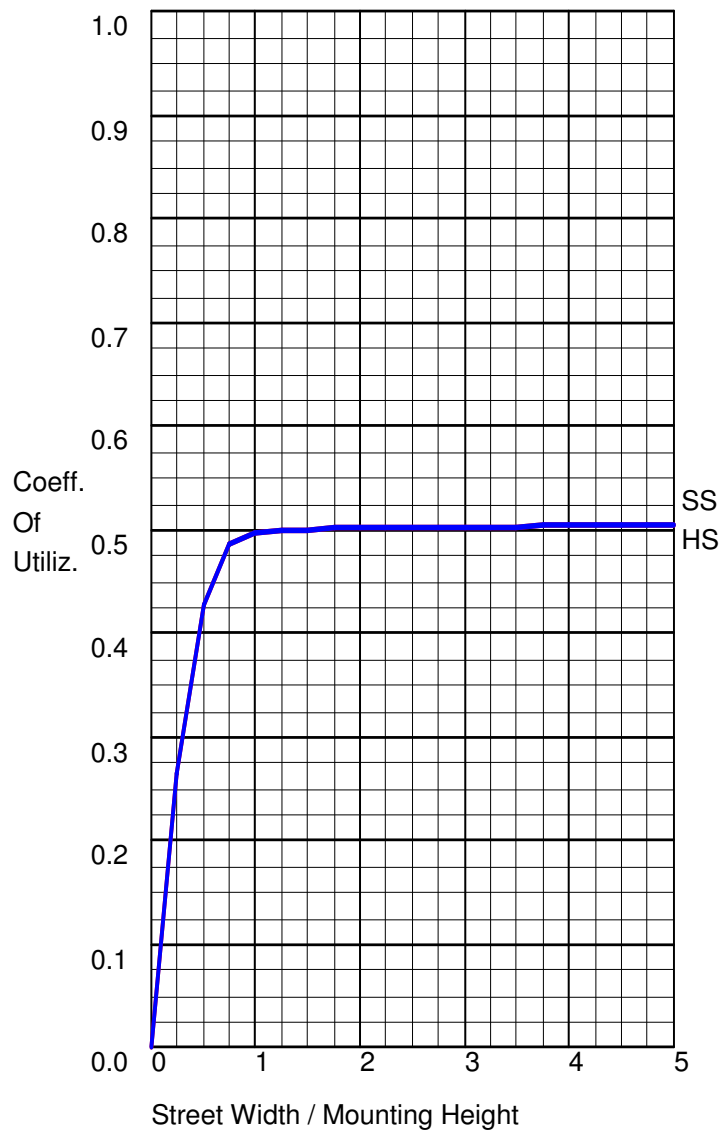
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-827-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

109	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	0.000
112	0.000	0.000	0.000	0.000	0.000
113	0.000	0.000	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
116	0.000	0.000	0.000	0.000	0.000
117	0.000	0.000	0.000	0.000	0.000
118	0.000	0.000	0.000	0.000	0.000
119	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000
121	0.000	0.000	0.000	0.000	0.000
122	0.000	0.000	0.000	0.000	0.000
123	0.000	0.000	0.000	0.000	0.000
124	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000
126	0.000	0.000	0.000	0.000	0.000
127	0.000	0.000	0.000	0.000	0.000
128	0.000	0.000	0.000	0.000	0.000
129	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
131	0.000	0.000	0.000	0.000	0.000
132	0.000	0.000	0.000	0.000	0.000
133	0.000	0.000	0.000	0.000	0.000
134	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000
136	0.000	0.000	0.000	0.000	0.000
137	0.000	0.000	0.000	0.000	0.000
138	0.000	0.000	0.000	0.000	0.000
139	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000
141	0.000	0.000	0.000	0.000	0.000
142	0.000	0.000	0.000	0.000	0.000
143	0.000	0.000	0.000	0.000	0.000
144	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
146	0.000	0.000	0.000	0.000	0.000
147	0.000	0.000	0.000	0.000	0.000
148	0.000	0.000	0.000	0.000	0.000
149	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
151	0.000	0.000	0.000	0.000	0.000
152	0.000	0.000	0.000	0.000	0.000
153	0.000	0.000	0.000	0.000	0.000
154	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
156	0.000	0.000	0.000	0.000	0.000
157	0.000	0.000	0.000	0.000	0.000
158	0.000	0.000	0.000	0.000	0.000
159	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
161	0.000	0.000	0.000	0.000	0.000
162	0.000	0.000	0.000	0.000	0.000
163	0.000	0.000	0.000	0.000	0.000
164	0.000	0.000	0.000	0.000	0.000

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-827-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

165	0.000	0.000	0.000	0.000	0.000
166	0.000	0.000	0.000	0.000	0.000
167	0.000	0.000	0.000	0.000	0.000
168	0.000	0.000	0.000	0.000	0.000
169	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
171	0.000	0.000	0.000	0.000	0.000
172	0.000	0.000	0.000	0.000	0.000
173	0.000	0.000	0.000	0.000	0.000
174	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
176	0.000	0.000	0.000	0.000	0.000
177	0.000	0.000	0.000	0.000	0.000
178	0.000	0.000	0.000	0.000	0.000
179	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

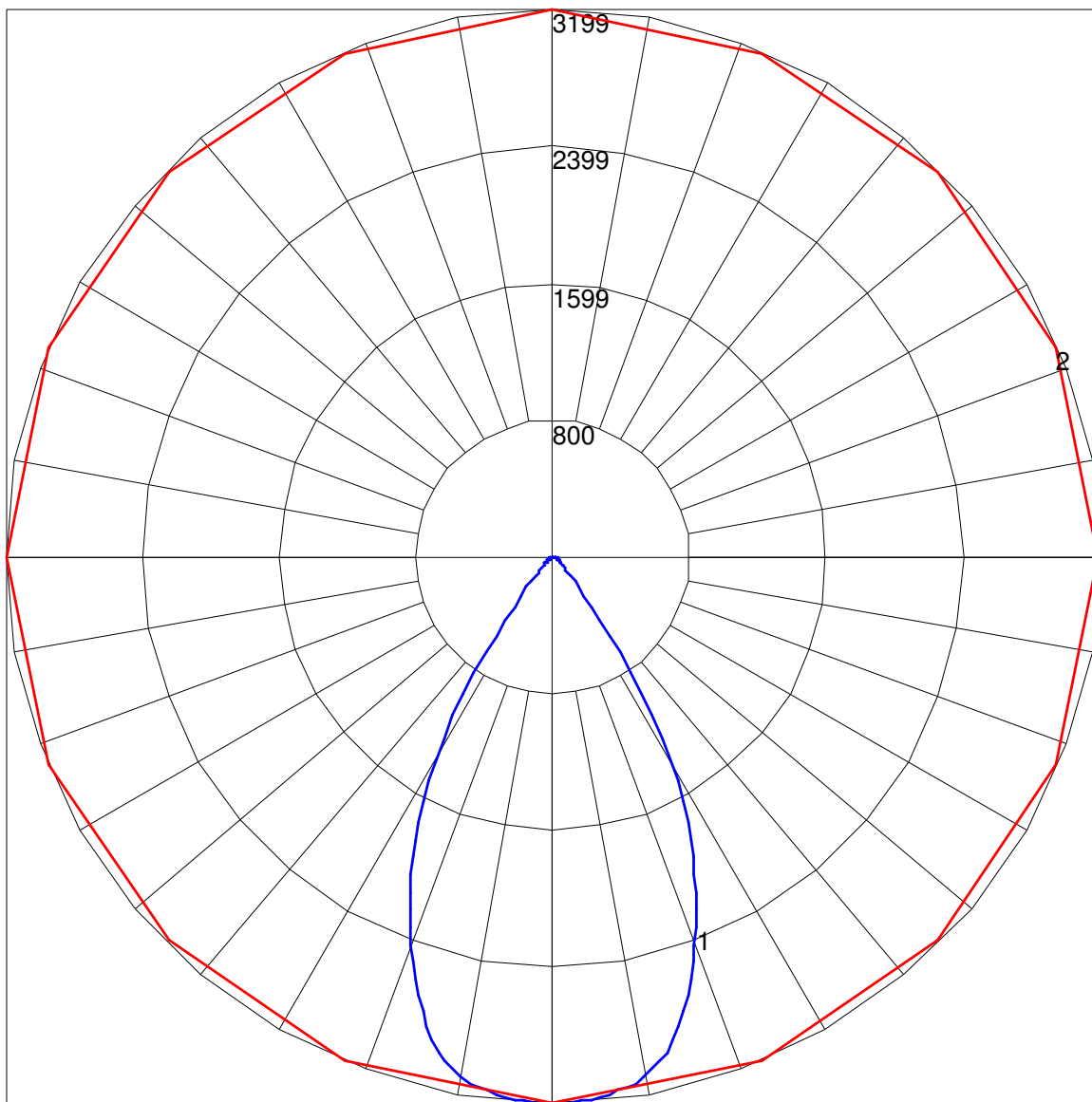
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

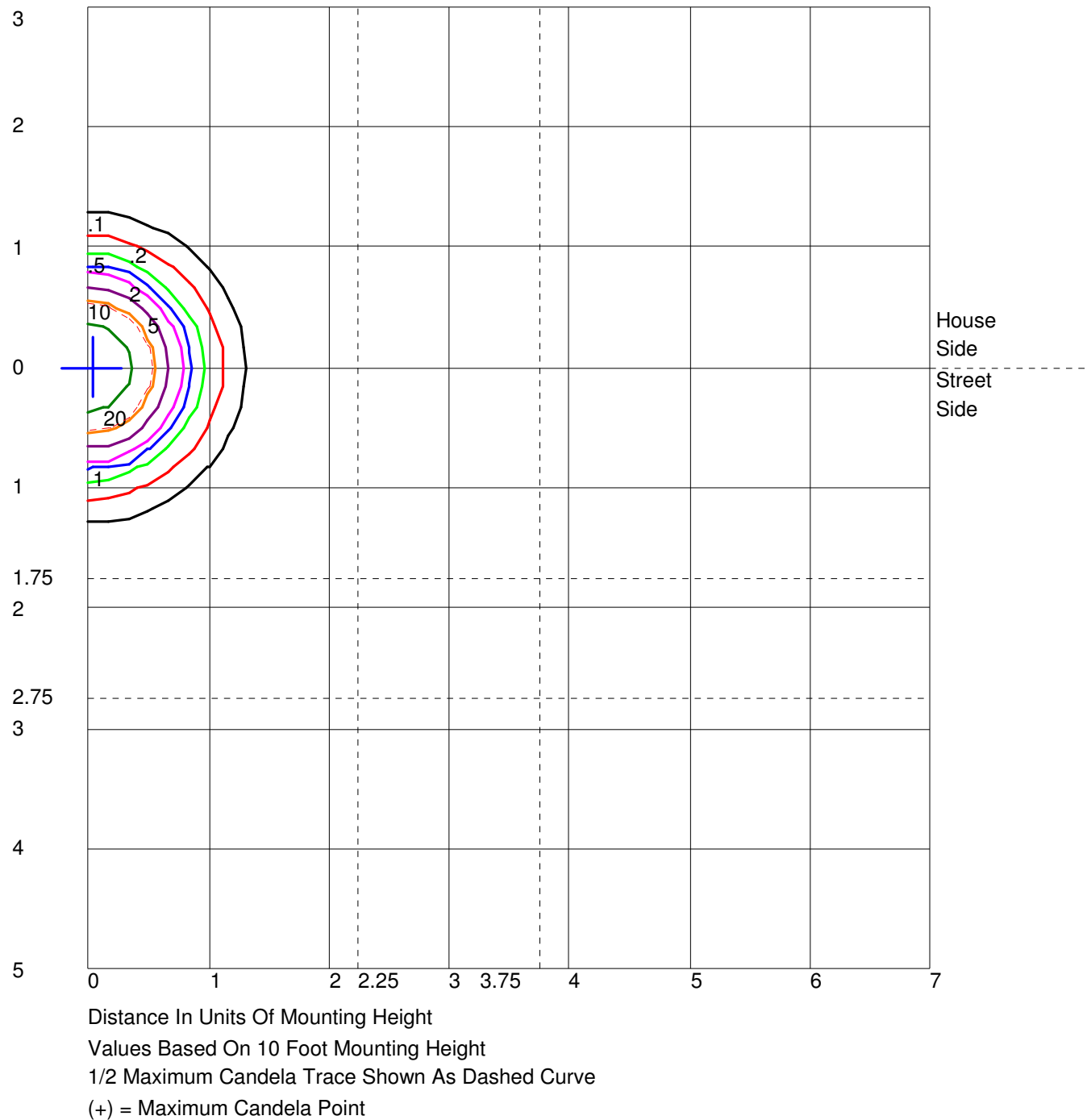
	Lumens	Percent Of Luminaire
Downward Street Side	1268.8	50.0
Downward House Side	1268.8	50.0
Downward Total	2537.6	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2538.0	100.0

POLAR GRAPH

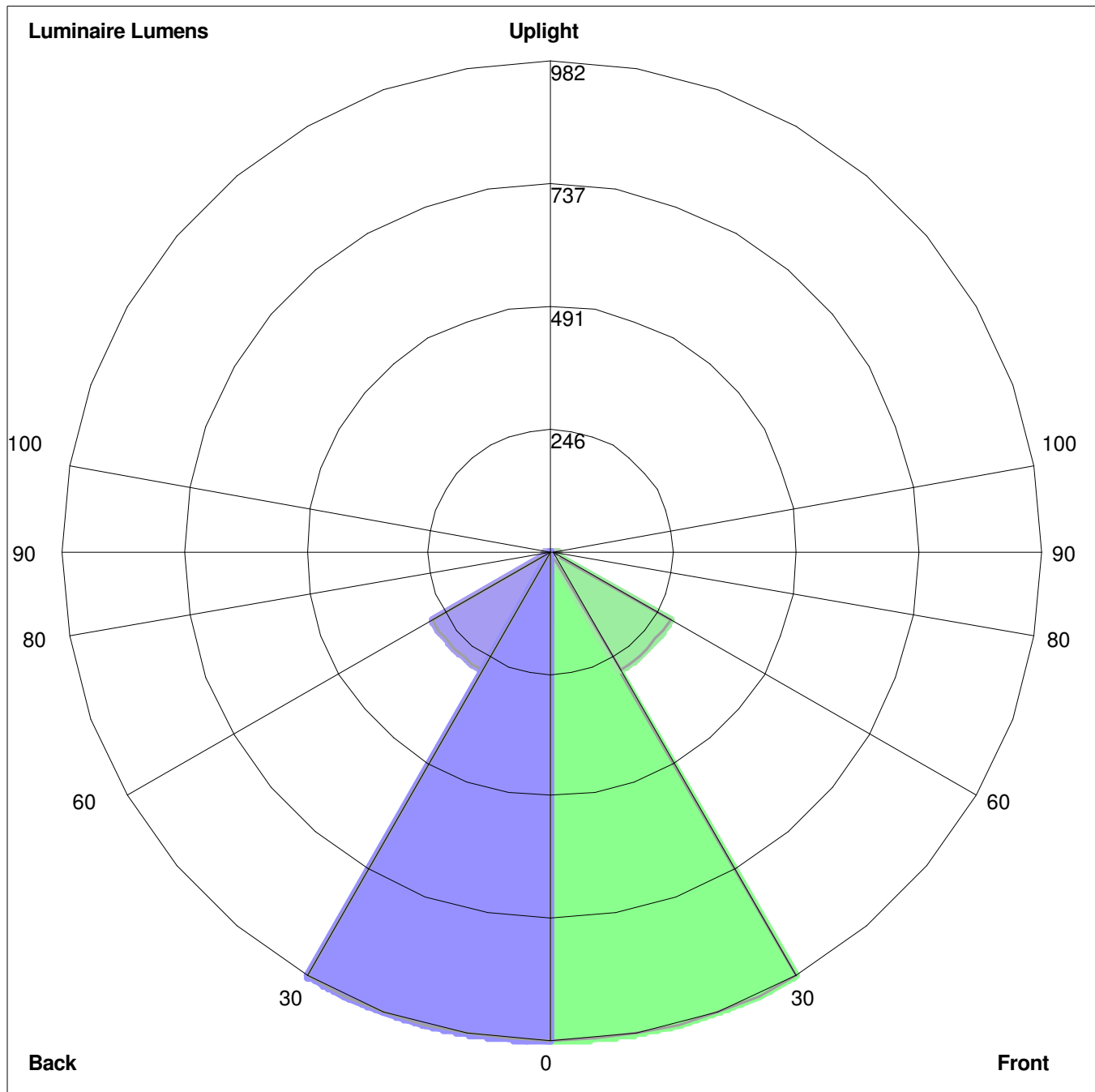


Maximum Candela = 3198.976 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=982.3, Medium=274.2, High=11.7, Very High=0.6
Back: Low=982.3, Medium=274.2, High=11.7, Very High=0.6
Uplight: Low=0.4, High=0.0

BUG Rating : B2-U1-G0