

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-840-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-L20-840-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	2108
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2656.617
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	2656.617
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.331 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.504 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-840-XXX-DIM-UNV-W-XXX_.IES_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	815.7	N.A.	38.7
FM - Front-Medium (30-60)	227.7	N.A.	10.8
FH - Front-High (60-80)	9.7	N.A.	0.5
FVH - Front-Very High (80-90)	0.5	N.A.	0.0
BL - Back-Low (0-30)	815.7	N.A.	38.7
BM - Back-Medium (30-60)	227.7	N.A.	10.8
BH - Back-High (60-80)	9.7	N.A.	0.5
BVH - Back-Very High (80-90)	0.5	N.A.	0.0
UL - Uplight-Low (90-100)	0.3	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	2107.5	N.A.	100.0
BUG Rating	B2-U1-G0		

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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	2652.206	2652.206	2652.206	2652.206	2652.206
1	2647.968	2647.842	2648.260	2651.442	2654.467
2	2650.268	2649.481	2646.850	2652.017	2656.617
3	2647.779	2644.455	2646.897	2645.259	2650.946
4	2643.825	2641.155	2640.013	2643.077	2648.449
5	2640.257	2639.185	2636.799	2638.957	2642.171
6	2632.781	2634.176	2627.866	2632.711	2630.017
7	2622.242	2626.606	2621.659	2621.612	2618.634
8	2612.372	2611.474	2609.411	2609.797	2610.466
9	2599.722	2596.697	2594.240	2595.547	2594.555
10	2575.784	2576.548	2574.988	2573.444	2572.507
11	2546.308	2548.585	2545.442	2546.710	2543.551
12	2511.894	2509.618	2508.680	2512.493	2510.996
13	2467.058	2466.334	2468.421	2472.714	2472.454
14	2421.404	2417.623	2418.883	2420.640	2425.555
15	2364.501	2362.547	2359.483	2366.501	2363.855
16	2303.746	2298.043	2295.585	2300.627	2304.124
17	2236.248	2229.695	2230.120	2229.821	2237.706
18	2162.496	2159.117	2159.692	2155.210	2163.788
19	2084.712	2081.860	2081.545	2082.246	2087.146
20	2005.706	2005.383	2003.343	2004.406	2010.999
21	1929.370	1926.007	1925.125	1927.787	1929.961
22	1845.985	1849.412	1847.214	1849.427	1852.066
23	1769.335	1768.098	1767.980	1769.823	1776.101
24	1689.171	1687.659	1689.376	1693.212	1695.425
25	1608.220	1607.723	1609.204	1614.049	1614.844
26	1525.197	1525.598	1529.159	1533.097	1532.696
27	1433.895	1436.219	1444.253	1447.806	1444.245
28	1339.521	1340.026	1351.171	1354.842	1349.431
29	1237.751	1240.681	1250.512	1252.962	1249.338
30	1129.971	1132.350	1142.929	1145.363	1140.447
31	1013.542	1019.064	1025.869	1030.540	1028.658
32	897.097	903.281	907.684	913.024	911.473
33	779.376	783.157	789.459	794.587	794.524
34	661.647	668.359	672.730	680.095	682.545
35	551.977	559.247	561.484	568.707	572.890
36	453.302	458.706	460.927	465.937	473.302
37	364.868	369.098	371.272	375.754	383.639
38	293.731	292.400	296.780	301.466	305.657
39	229.227	232.968	234.024	238.640	244.201
40	180.240	183.982	186.652	190.512	195.561
41	142.297	145.345	148.480	155.759	162.241
42	114.231	116.461	121.715	125.621	129.072
43	95.579	96.414	99.856	104.314	107.079
44	78.943	80.494	83.795	88.616	90.183
45	67.631	68.978	71.853	75.430	77.021
46	59.179	60.282	62.771	65.576	66.639
47	52.657	53.689	55.643	57.911	58.841
48	47.734	48.569	50.074	51.964	52.949
49	43.819	44.520	45.789	47.262	48.183
50	40.621	41.212	42.299	43.504	44.253
51	37.920	38.408	39.400	40.401	41.031
52	35.391	35.840	36.683	37.518	38.022

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-840-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

53	33.099	33.477	34.178	34.855	35.265
54	30.988	31.334	31.925	32.445	32.792
55	29.082	29.342	29.885	30.295	30.555
56	27.231	27.483	27.940	28.286	28.444
57	25.482	25.679	26.049	26.356	26.459
58	23.773	23.938	24.245	24.505	24.592
59	22.111	22.237	22.473	22.717	22.796
60	20.472	20.582	20.787	20.976	21.063
61	18.936	19.023	19.180	19.338	19.385
62	17.503	17.550	17.660	17.794	17.833
63	16.148	16.187	16.258	16.360	16.416
64	14.895	14.927	14.974	15.061	15.116
65	13.769	13.800	13.808	13.871	13.958
66	12.713	12.745	12.737	12.792	12.847
67	11.760	11.784	11.760	11.800	11.847
68	10.878	10.886	10.870	10.870	10.925
69	10.051	10.043	10.019	10.004	10.043
70	9.263	9.248	9.200	9.169	9.200
71	8.499	8.468	8.405	8.357	8.373
72	7.743	7.712	7.641	7.570	7.601
73	7.010	6.955	6.861	6.790	6.829
74	6.254	6.191	6.097	6.018	6.065
75	5.443	5.396	5.293	5.238	5.270
76	4.553	4.513	4.403	4.380	4.395
77	3.545	3.529	3.419	3.403	3.419
78	2.395	2.395	2.308	2.261	2.276
79	1.662	1.678	1.638	1.631	1.607
80	1.504	1.497	1.489	1.481	1.473
81	1.402	1.402	1.402	1.394	1.394
82	1.323	1.315	1.323	1.315	1.315
83	1.229	1.229	1.237	1.229	1.229
84	1.134	1.126	1.142	1.126	1.126
85	1.024	1.016	1.024	1.016	1.016
86	0.898	0.898	0.898	0.890	0.890
87	0.756	0.748	0.756	0.748	0.740
88	0.599	0.591	0.599	0.591	0.583
89	0.433	0.425	0.425	0.410	0.410
90	0.331	0.315	0.315	0.291	0.276
91	0.307	0.291	0.299	0.284	0.276
92	0.307	0.291	0.299	0.276	0.276
93	0.307	0.299	0.299	0.284	0.276
94	0.307	0.299	0.299	0.284	0.284
95	0.315	0.299	0.299	0.284	0.284
96	0.315	0.299	0.299	0.284	0.284
97	0.315	0.307	0.307	0.291	0.291
98	0.315	0.307	0.315	0.291	0.299
99	0.323	0.315	0.315	0.299	0.299
100	0.323	0.315	0.323	0.299	0.307
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

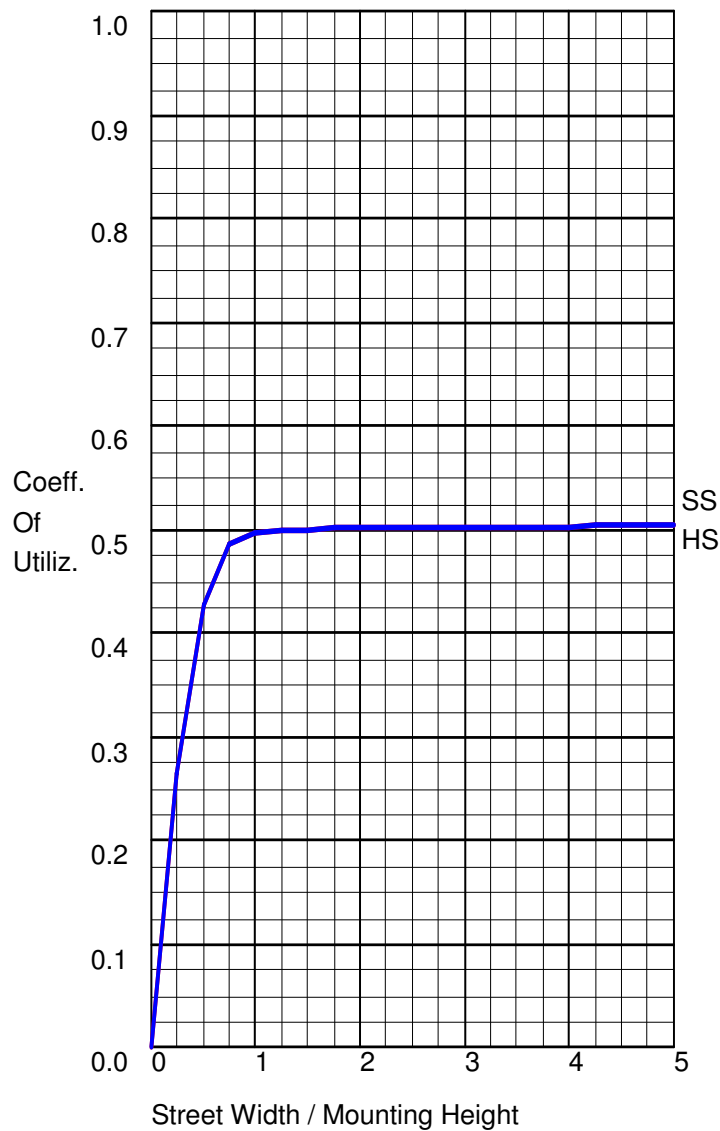
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-840-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

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-L20-840-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

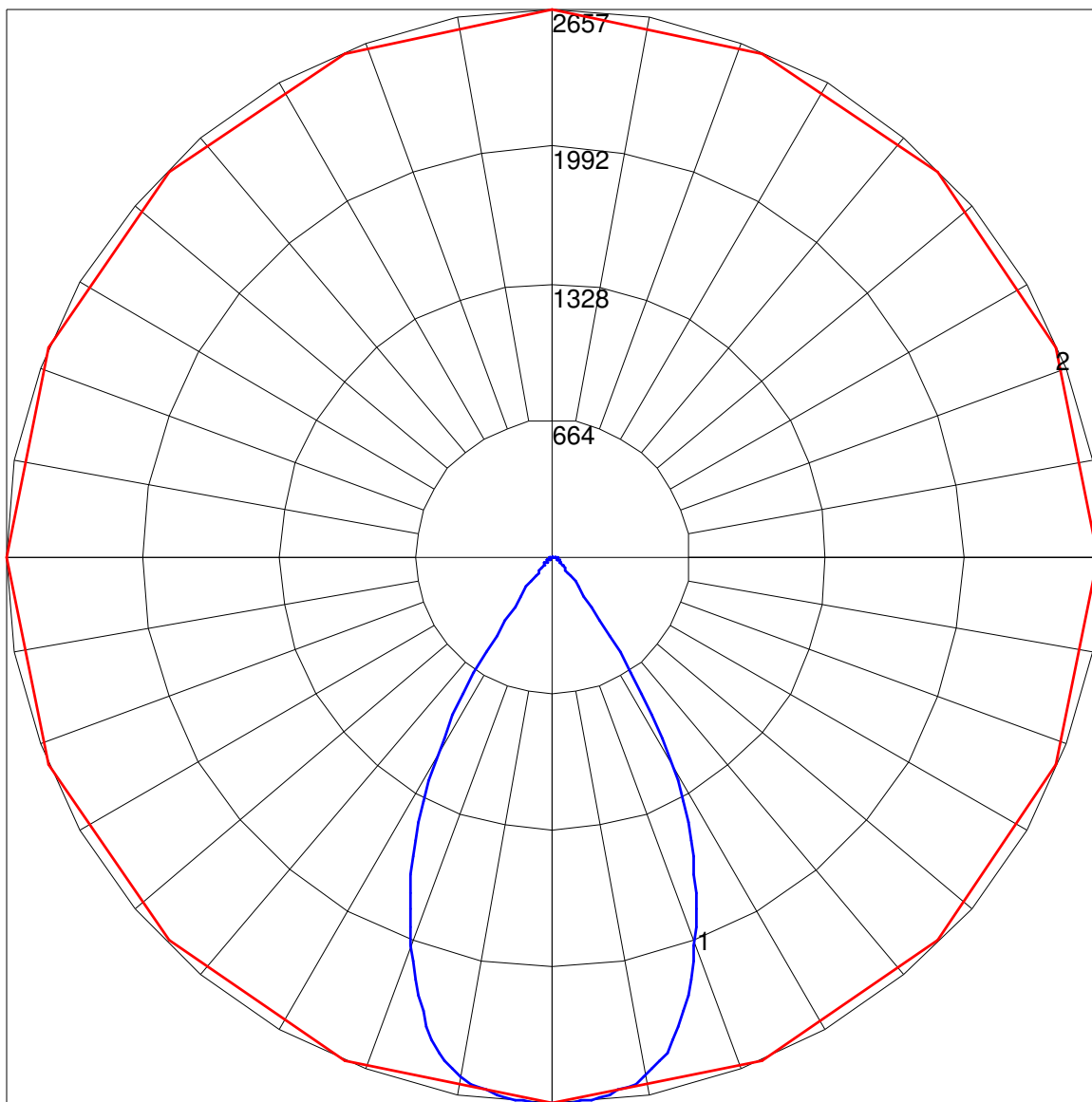
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

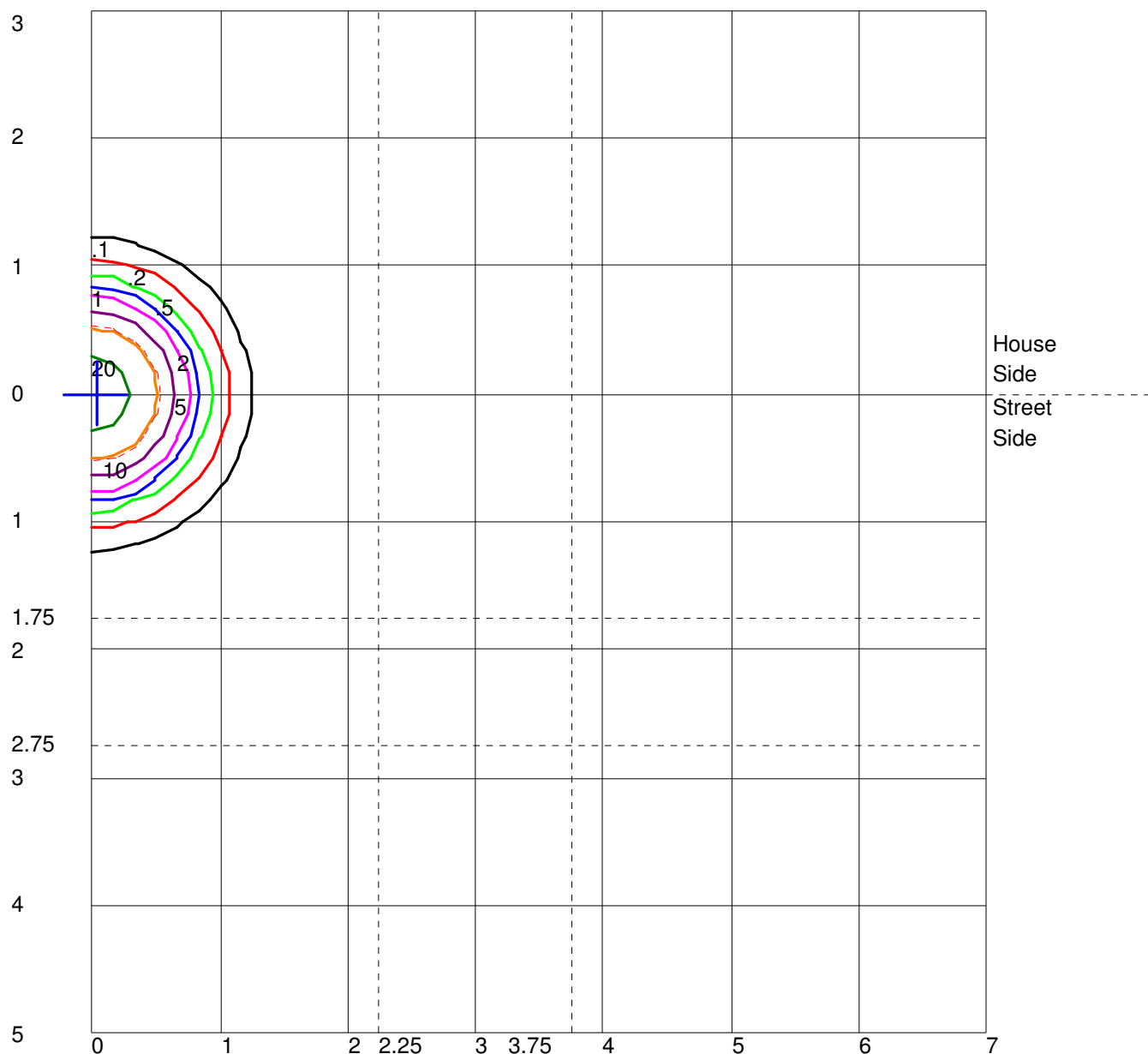
	Lumens	Percent Of Luminaire
Downward Street Side	1053.7	50.0
Downward House Side	1053.7	50.0
Downward Total	2107.4	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2107.8	100.0

POLAR GRAPH

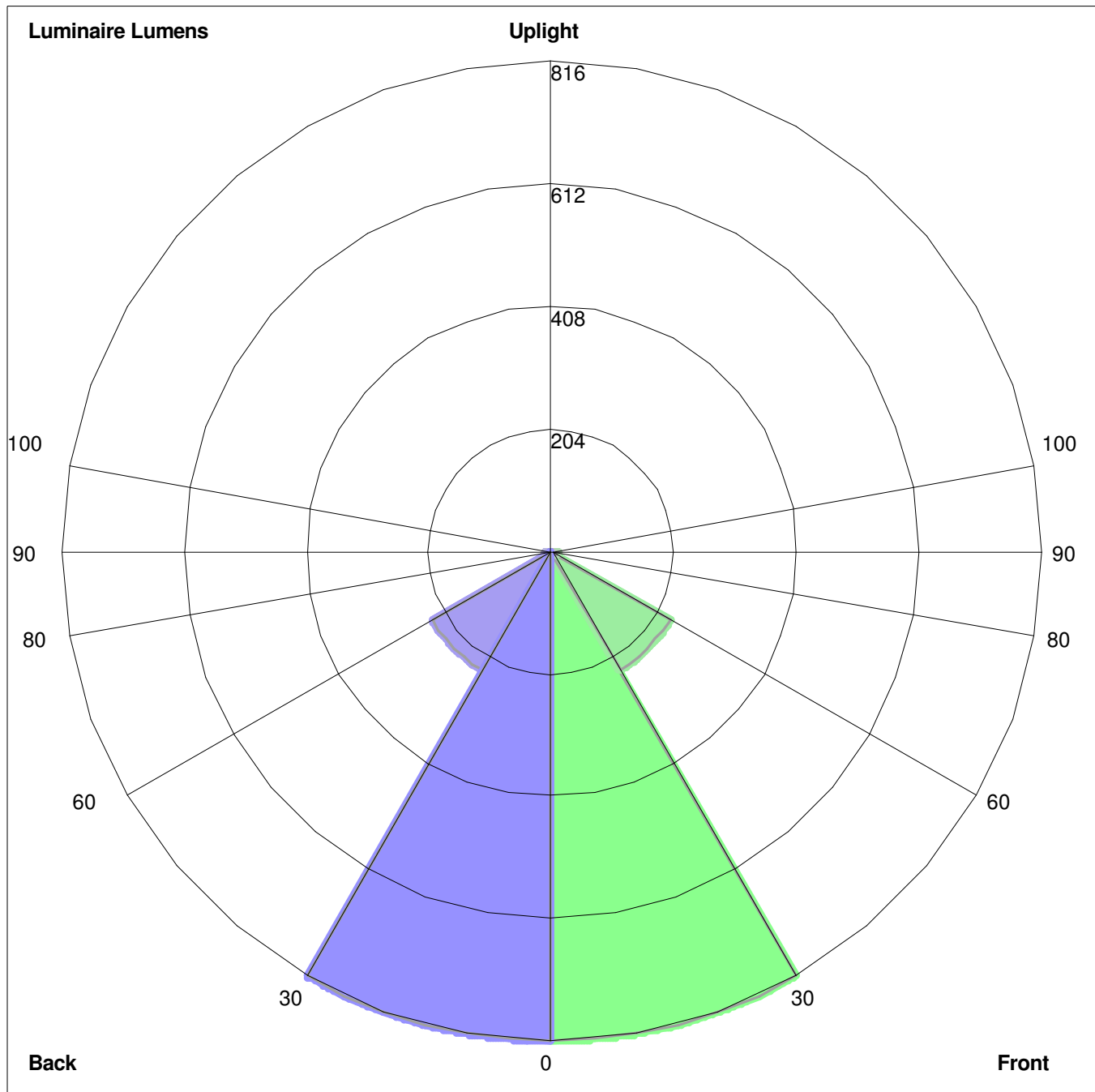


Maximum Candela = 2656.617 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=815.7, Medium=227.7, High=9.7, Very High=0.5
Back: Low=815.7, Medium=227.7, High=9.7, Very High=0.5
Uplight: Low=0.3, High=0.0

BUG Rating : B2-U1-G0