

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-840-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-L25-840-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	2616
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3296.904
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	3296.904
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.411 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.867 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-840-XXX-DIM-UNV-W-XXX\_.IES\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1012.3	N.A.	38.7
FM - Front-Medium (30-60)	282.6	N.A.	10.8
FH - Front-High (60-80)	12.1	N.A.	0.5
FVH - Front-Very High (80-90)	0.7	N.A.	0.0
BL - Back-Low (0-30)	1012.3	N.A.	38.7
BM - Back-Medium (30-60)	282.6	N.A.	10.8
BH - Back-High (60-80)	12.1	N.A.	0.5
BVH - Back-Very High (80-90)	0.7	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	2615.8	N.A.	100.0
BUG Rating	B3-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	3291.430	3291.430	3291.430	3291.430	3291.430
1	3286.171	3286.014	3286.532	3290.482	3294.235
2	3289.025	3288.047	3284.782	3291.195	3296.904
3	3285.936	3281.811	3284.841	3282.808	3289.866
4	3281.029	3277.715	3276.297	3280.100	3286.767
5	3276.600	3275.271	3272.309	3274.987	3278.976
6	3267.324	3269.054	3261.224	3267.236	3263.892
7	3254.244	3259.660	3253.521	3253.462	3249.767
8	3241.995	3240.881	3238.320	3238.799	3239.630
9	3226.296	3222.542	3219.492	3221.115	3219.883
10	3196.589	3197.537	3195.601	3193.685	3192.522
11	3160.009	3162.834	3158.934	3160.508	3156.588
12	3117.300	3114.475	3113.312	3118.043	3116.186
13	3061.659	3060.759	3063.350	3068.677	3068.355
14	3005.000	3000.308	3001.872	3004.052	3010.152
15	2934.383	2931.959	2928.156	2936.866	2933.581
16	2858.985	2851.908	2848.858	2855.114	2859.454
17	2775.220	2767.086	2767.614	2767.243	2777.028
18	2683.692	2679.499	2680.212	2674.650	2685.296
19	2587.160	2583.622	2583.231	2584.101	2590.181
20	2489.113	2488.712	2486.180	2487.500	2495.682
21	2394.379	2390.205	2389.110	2392.415	2395.113
22	2290.897	2295.149	2292.422	2295.169	2298.443
23	2195.772	2194.238	2194.091	2196.378	2204.169
24	2096.288	2094.411	2096.542	2101.303	2104.050
25	1995.826	1995.210	1997.048	2003.060	2004.047
26	1892.793	1893.292	1897.710	1902.598	1902.099
27	1779.486	1782.370	1792.341	1796.750	1792.331
28	1662.367	1662.993	1676.825	1681.380	1674.665
29	1536.069	1539.705	1551.905	1554.945	1550.449
30	1402.312	1405.264	1418.393	1421.413	1415.313
31	1257.822	1264.674	1273.120	1278.917	1276.581
32	1113.312	1120.985	1126.450	1133.078	1131.152
33	967.218	971.910	979.731	986.095	986.016
34	821.115	829.444	834.869	844.009	847.049
35	685.012	694.035	696.811	705.775	710.966
36	562.555	569.261	572.018	578.235	587.375
37	452.807	458.056	460.754	466.316	476.102
38	364.525	362.873	368.308	374.125	379.325
39	284.474	289.118	290.427	296.156	303.057
40	223.681	228.324	231.638	236.428	242.694
41	176.593	180.376	184.266	193.299	201.344
42	141.763	144.529	151.050	155.898	160.180
43	118.615	119.651	123.923	129.456	132.887
44	97.969	99.895	103.991	109.973	111.919
45	83.932	85.603	89.171	93.609	95.584
46	73.443	74.811	77.900	81.380	82.700
47	65.349	66.629	69.054	71.869	73.022
48	59.239	60.275	62.142	64.488	65.710
49	54.381	55.251	56.824	58.652	59.796
50	50.412	51.145	52.494	53.990	54.918
51	47.059	47.665	48.897	50.138	50.920
52	43.921	44.478	45.524	46.560	47.186

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-840-XXX-DIM-UNV-W-XXX\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

53	41.076	41.545	42.416	43.256	43.765
54	38.456	38.887	39.620	40.265	40.695
55	36.091	36.413	37.088	37.596	37.919
56	33.794	34.106	34.673	35.104	35.299
57	31.623	31.868	32.327	32.709	32.836
58	29.502	29.707	30.089	30.411	30.519
59	27.440	27.596	27.889	28.192	28.290
60	25.406	25.543	25.797	26.032	26.139
61	23.500	23.608	23.803	23.999	24.057
62	21.721	21.780	21.916	22.083	22.132
63	20.040	20.088	20.176	20.304	20.372
64	18.485	18.524	18.583	18.691	18.759
65	17.087	17.127	17.136	17.214	17.322
66	15.778	15.817	15.807	15.875	15.944
67	14.595	14.624	14.595	14.644	14.702
68	13.500	13.510	13.490	13.490	13.558
69	12.473	12.464	12.434	12.415	12.464
70	11.496	11.476	11.418	11.379	11.418
71	10.548	10.509	10.430	10.372	10.391
72	9.609	9.570	9.482	9.394	9.433
73	8.700	8.632	8.514	8.426	8.475
74	7.762	7.683	7.566	7.468	7.527
75	6.755	6.696	6.569	6.501	6.540
76	5.650	5.601	5.464	5.435	5.455
77	4.399	4.379	4.243	4.223	4.243
78	2.972	2.972	2.864	2.806	2.825
79	2.063	2.082	2.033	2.024	1.994
80	1.867	1.857	1.848	1.838	1.828
81	1.740	1.740	1.740	1.730	1.730
82	1.642	1.632	1.642	1.632	1.632
83	1.525	1.525	1.535	1.525	1.525
84	1.408	1.398	1.417	1.398	1.398
85	1.271	1.261	1.271	1.261	1.261
86	1.114	1.114	1.114	1.105	1.105
87	0.938	0.929	0.938	0.929	0.919
88	0.743	0.733	0.743	0.733	0.723
89	0.538	0.528	0.528	0.508	0.508
90	0.411	0.391	0.391	0.362	0.342
91	0.381	0.362	0.371	0.352	0.342
92	0.381	0.362	0.371	0.342	0.342
93	0.381	0.371	0.371	0.352	0.342
94	0.381	0.371	0.371	0.352	0.352
95	0.391	0.371	0.371	0.352	0.352
96	0.391	0.371	0.371	0.352	0.352
97	0.391	0.381	0.381	0.362	0.362
98	0.391	0.381	0.391	0.362	0.371
99	0.401	0.391	0.391	0.371	0.371
100	0.401	0.391	0.401	0.371	0.381
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

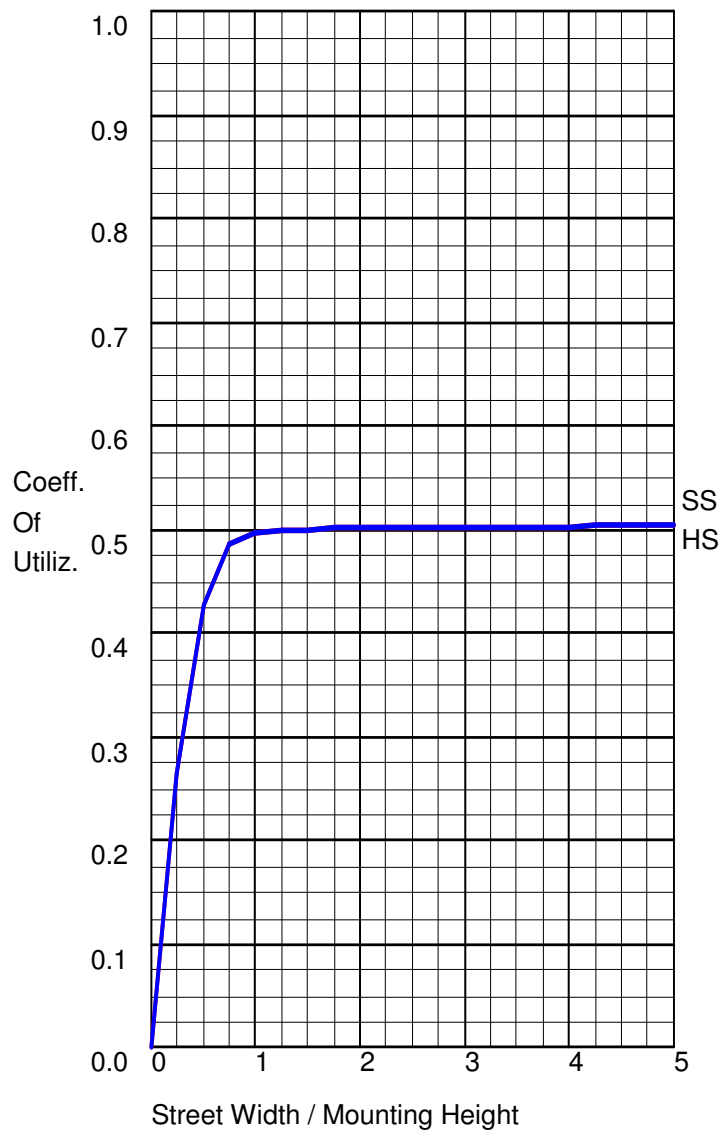
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-840-XXX-DIM-UNV-W-XXX\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

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-L25-840-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

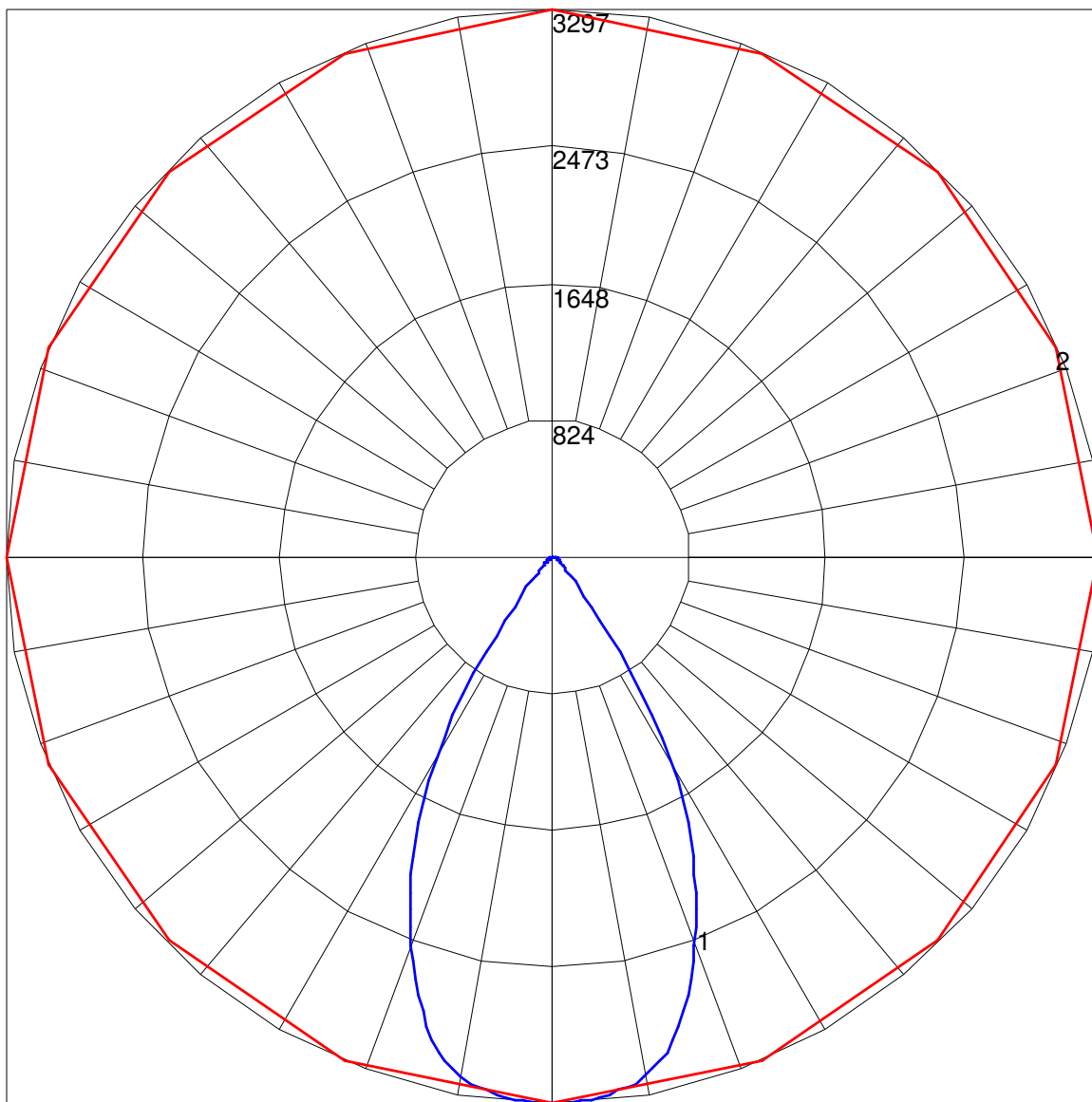
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

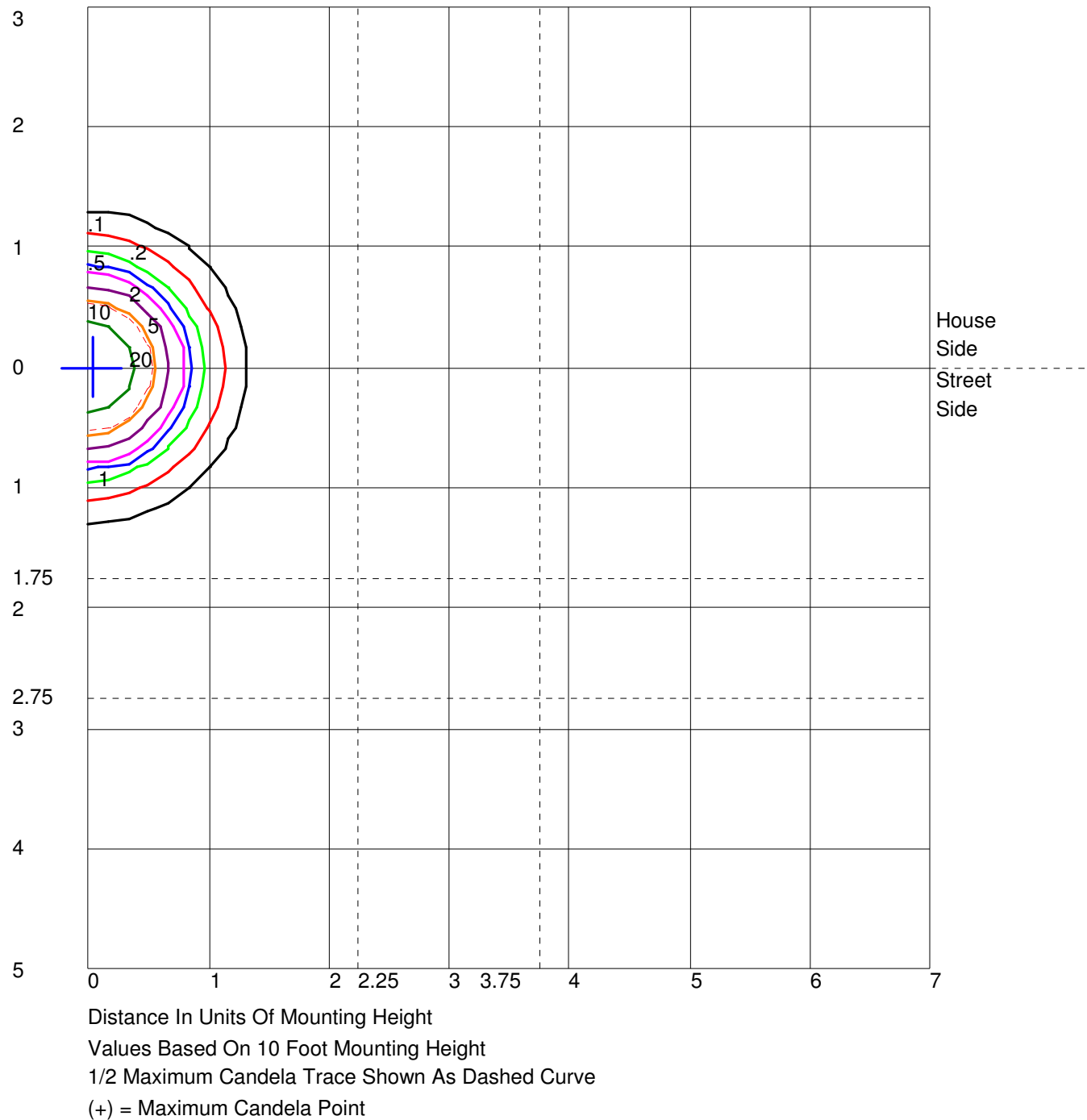
	Lumens	Percent Of Luminaire
Downward Street Side	1307.7	50.0
Downward House Side	1307.7	50.0
Downward Total	2615.4	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2615.8	100.0

POLAR GRAPH

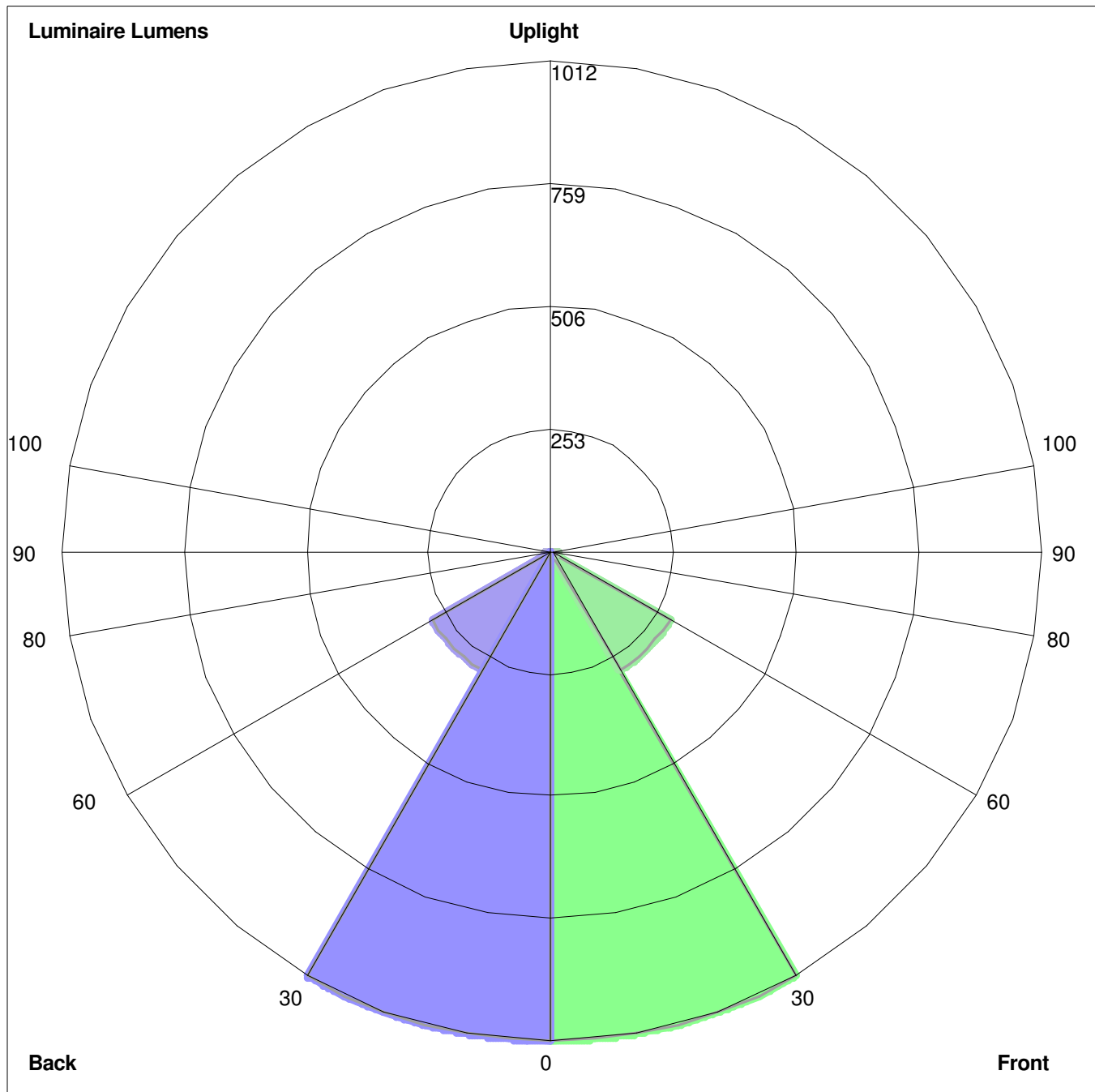


Maximum Candela = 3296.904 Located At Horizontal Angle = 90, Vertical Angle = 2  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1012.3, Medium=282.6, High=12.1, Very High=0.7  
Back: Low=1012.3, Medium=282.6, High=12.1, Very High=0.7  
Uplight: Low=0.4, High=0.0

BUG Rating : B3-U1-G0