

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-930-XXX-DIM-UNV-M-XXX_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] W4CR_BARBARA-MEDIUM DIST
[TESTLAB] LEDIL Inc
[TESTDATE] 07/03/2025
[ISSUEDATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO
[LUMCAT] W4CR-xx-L25-930-xxx-DIM-UNV-M-xxx
[LUMINAIRE] 4 INCH ROUND OUTDOOR LED CYLINDER
[MORE] MEDIUM DISTRIBUTION WITH 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	2444
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4650.805
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	4650.805
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.346 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.625 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-930-XXX-DIM-UNV-M-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1016.6	N.A.	41.6
FM - Front-Medium (30-60)	193.8	N.A.	7.9
FH - Front-High (60-80)	10.9	N.A.	0.4
FVH - Front-Very High (80-90)	0.6	N.A.	0.0
BL - Back-Low (0-30)	1016.6	N.A.	41.6
BM - Back-Medium (30-60)	193.8	N.A.	7.9
BH - Back-High (60-80)	10.9	N.A.	0.4
BVH - Back-Very High (80-90)	0.6	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	2444.1	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	4650.805	4650.805	4650.805	4650.805	4650.805
1	4643.628	4644.730	4641.639	4640.582	4641.000
2	4624.098	4630.608	4625.697	4624.009	4618.237
3	4590.136	4593.724	4588.608	4589.923	4588.031
4	4542.931	4552.674	4543.837	4544.326	4542.505
5	4495.105	4491.011	4484.119	4482.538	4479.722
6	4420.617	4422.757	4413.707	4408.724	4408.041
7	4338.792	4336.030	4331.740	4322.637	4315.203
8	4234.871	4239.481	4228.530	4219.293	4216.931
9	4116.544	4120.603	4114.137	4107.263	4104.093
10	3983.537	3985.384	3982.373	3979.842	3973.412
11	3839.738	3839.258	3837.420	3833.112	3827.997
12	3681.098	3684.855	3674.588	3676.818	3677.741
13	3515.594	3515.860	3505.709	3516.384	3519.244
14	3338.632	3342.895	3339.147	3348.348	3351.696
15	3157.132	3162.185	3160.942	3173.536	3176.768
16	2979.530	2981.999	2982.017	2996.130	3005.908
17	2805.322	2808.146	2809.354	2820.935	2832.907
18	2627.010	2635.252	2637.010	2648.698	2664.454
19	2464.392	2467.056	2474.712	2486.133	2497.830
20	2302.768	2311.889	2317.653	2328.835	2343.791
21	2153.170	2159.644	2168.322	2178.651	2192.372
22	2011.822	2019.487	2025.367	2038.555	2050.901
23	1878.060	1882.518	1889.268	1903.452	1916.649
24	1752.459	1754.511	1762.975	1776.297	1784.361
25	1630.784	1633.475	1642.996	1655.456	1661.354
26	1511.906	1518.514	1527.040	1538.187	1542.911
27	1395.187	1399.592	1413.918	1424.816	1424.256
28	1278.086	1282.962	1299.375	1306.222	1305.938
29	1159.848	1171.412	1179.876	1186.981	1187.141
30	1039.185	1048.138	1058.369	1065.128	1063.343
31	917.626	923.772	931.898	937.662	936.454
32	796.697	802.319	808.482	813.109	812.168
33	675.883	681.088	686.354	690.058	692.083
34	559.777	566.553	569.644	573.845	576.403
35	453.901	460.110	461.921	464.621	468.920
36	370.141	366.286	368.489	369.555	375.266
37	289.596	285.279	287.153	285.492	293.868
38	216.884	220.312	218.216	219.939	226.742
39	166.615	169.892	167.485	173.196	182.655
40	127.848	129.766	131.667	133.123	138.719
41	103.255	101.621	103.655	107.216	112.172
42	81.283	82.615	86.265	89.675	93.121
43	68.325	69.728	72.419	75.758	79.240
44	59.781	60.900	63.271	66.353	69.062
45	53.750	54.674	56.859	59.292	61.415
46	49.514	50.322	52.205	54.097	55.695
47	46.432	47.160	48.706	50.189	51.512
48	44.087	44.744	46.023	47.231	48.350
49	42.275	42.817	43.874	44.833	45.864
50	40.703	41.121	42.053	42.853	43.759
51	39.211	39.558	40.401	41.076	41.894
52	37.648	37.950	38.643	39.194	39.860

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-930-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	35.987	36.263	36.831	37.249	37.799
54	34.264	34.495	34.975	35.312	35.748
55	32.479	32.692	33.101	33.350	33.705
56	30.605	30.801	31.129	31.378	31.636
57	28.696	28.838	29.095	29.344	29.548
58	26.760	26.884	27.088	27.328	27.532
59	24.832	24.930	25.090	25.321	25.507
60	22.932	23.029	23.163	23.358	23.545
61	21.147	21.244	21.306	21.502	21.662
62	19.486	19.557	19.610	19.761	19.921
63	17.949	18.011	18.038	18.162	18.305
64	16.555	16.599	16.617	16.706	16.857
65	15.312	15.347	15.329	15.409	15.569
66	14.130	14.184	14.139	14.228	14.370
67	13.100	13.136	13.091	13.162	13.287
68	12.150	12.159	12.114	12.168	12.292
69	11.262	11.244	11.208	11.226	11.350
70	10.418	10.373	10.329	10.338	10.436
71	9.592	9.539	9.476	9.459	9.556
72	8.775	8.730	8.642	8.606	8.713
73	7.958	7.904	7.807	7.753	7.878
74	7.114	7.061	6.945	6.892	7.007
75	6.199	6.173	6.039	5.995	6.093
76	5.160	5.142	5.009	5.000	5.071
77	4.006	3.988	3.837	3.828	3.890
78	2.673	2.673	2.540	2.469	2.513
79	1.794	1.821	1.767	1.759	1.750
80	1.625	1.616	1.608	1.590	1.590
81	1.519	1.519	1.510	1.501	1.501
82	1.430	1.421	1.430	1.421	1.421
83	1.332	1.323	1.332	1.323	1.332
84	1.226	1.217	1.226	1.217	1.226
85	1.101	1.101	1.101	1.101	1.101
86	0.959	0.959	0.968	0.959	0.968
87	0.817	0.808	0.817	0.799	0.799
88	0.639	0.639	0.639	0.631	0.639
89	0.462	0.453	0.462	0.444	0.444
90	0.346	0.337	0.337	0.311	0.293
91	0.320	0.320	0.320	0.293	0.293
92	0.320	0.320	0.320	0.293	0.293
93	0.329	0.320	0.320	0.302	0.293
94	0.329	0.320	0.329	0.302	0.302
95	0.329	0.320	0.329	0.302	0.311
96	0.329	0.320	0.329	0.311	0.311
97	0.337	0.320	0.329	0.311	0.311
98	0.337	0.329	0.329	0.311	0.320
99	0.346	0.337	0.337	0.320	0.329
100	0.346	0.346	0.337	0.329	0.329
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

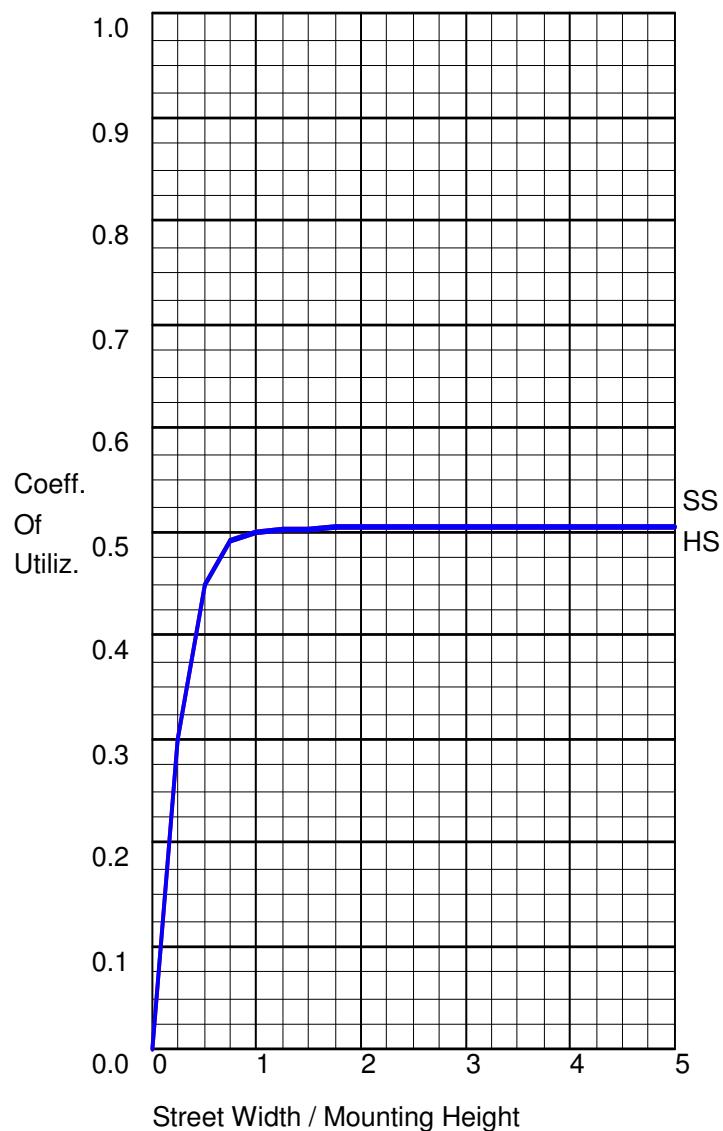
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-930-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L25-930-XXX-DIM-UNV-M-XXX_.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

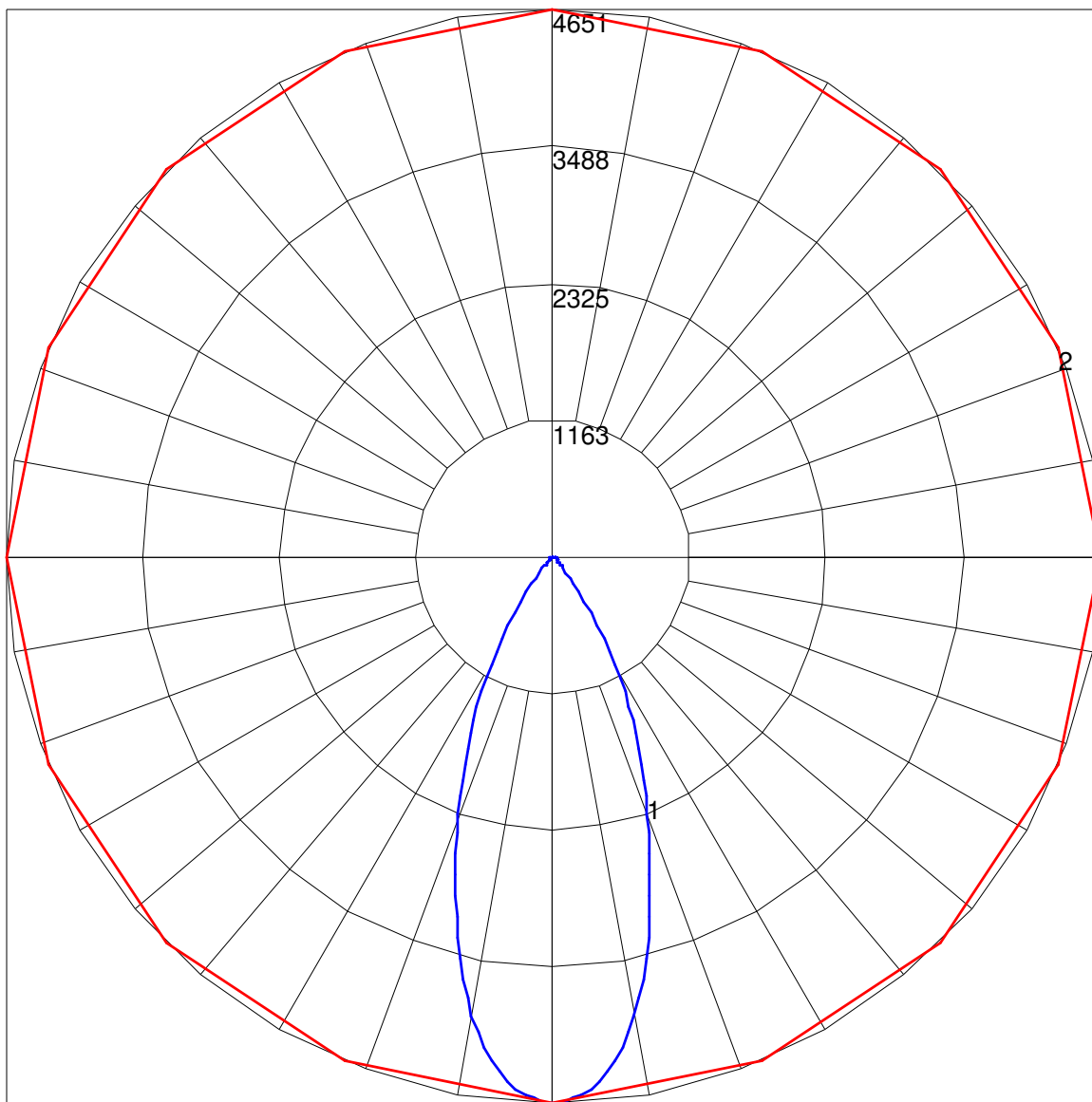
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

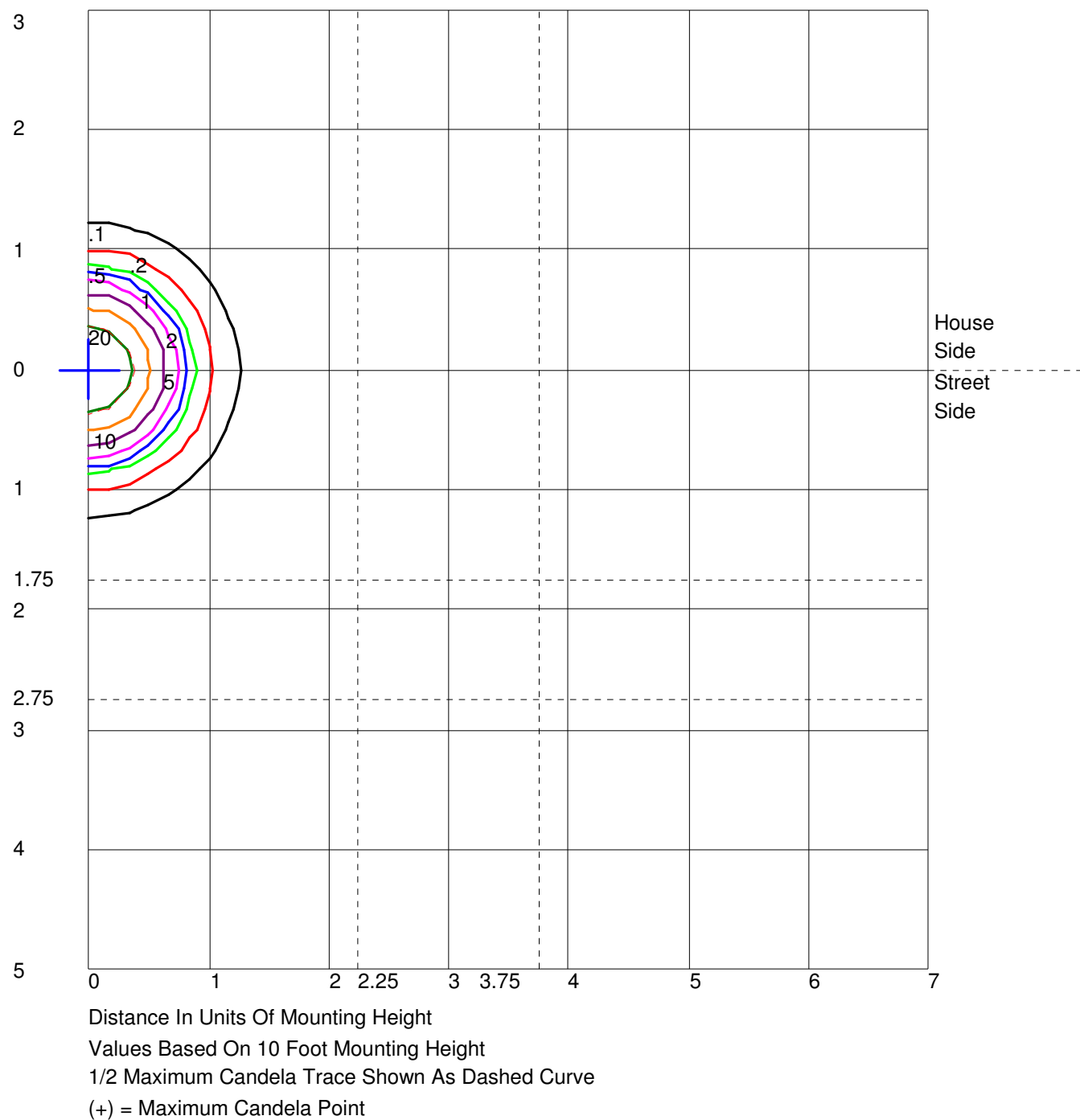
	Lumens	Percent Of Luminaire
Downward Street Side	1221.9	50.0
Downward House Side	1221.9	50.0
Downward Total	2443.8	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2444.2	100.0

POLAR GRAPH

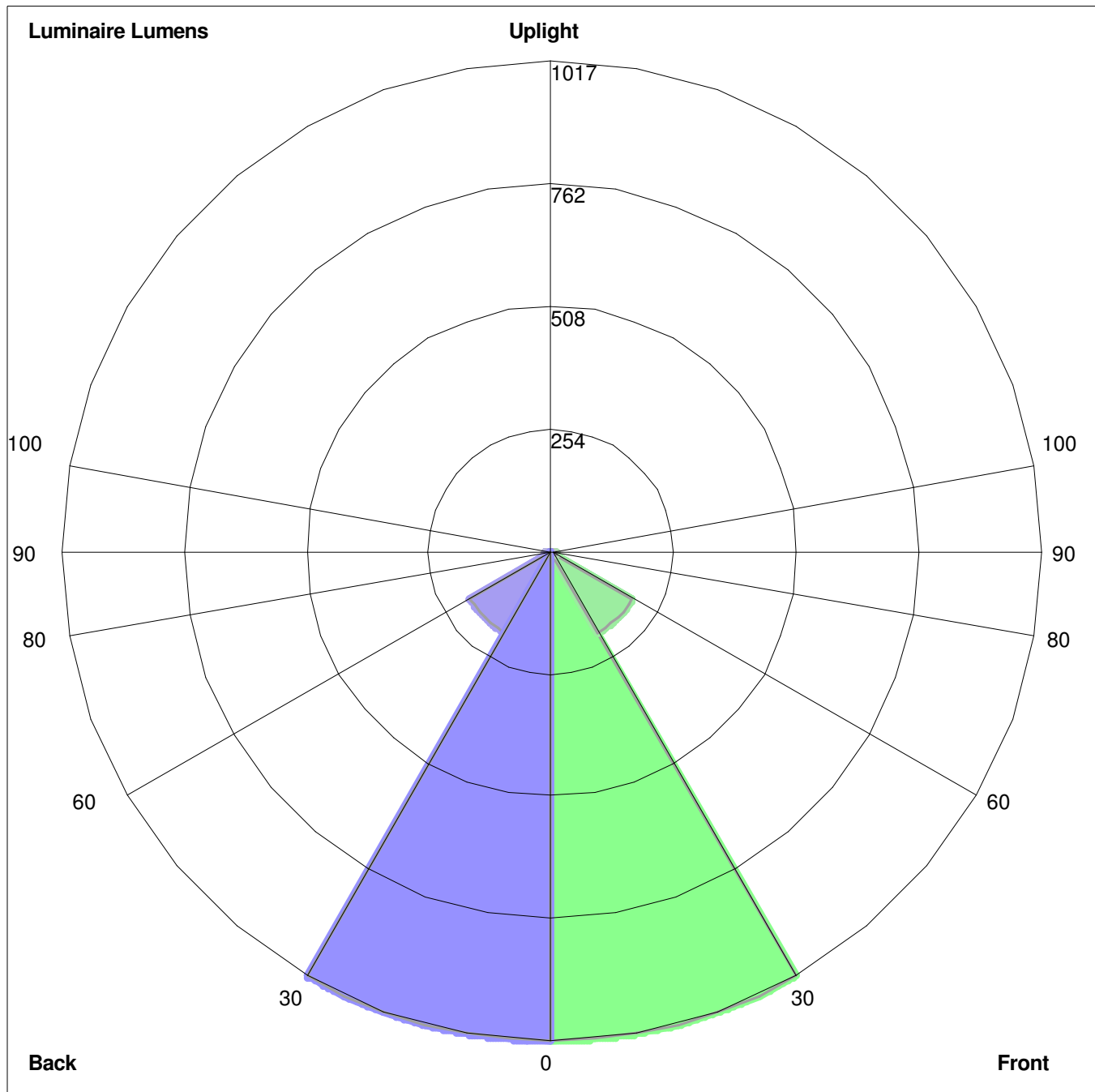


Maximum Candela = 4650.805 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1016.6, Medium=193.8, High=10.9, Very High=0.6
Back: Low=1016.6, Medium=193.8, High=10.9, Very High=0.6
Uplight: Low=0.3, High=0.0

BUG Rating : B3-U1-G0