

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-950-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-L20-950-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	1948
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3707.556
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	3707.556
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.276 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.296 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-950-XXX-DIM-UNV-M-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	810.5	N.A.	41.6
FM - Front-Medium (30-60)	154.5	N.A.	7.9
FH - Front-High (60-80)	8.7	N.A.	0.4
FVH - Front-Very High (80-90)	0.5	N.A.	0.0
BL - Back-Low (0-30)	810.5	N.A.	41.6
BM - Back-Medium (30-60)	154.5	N.A.	7.9
BH - Back-High (60-80)	8.7	N.A.	0.4
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	1948.7	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	3707.556	3707.556	3707.556	3707.556	3707.556
1	3701.835	3702.713	3700.249	3699.407	3699.739
2	3686.266	3691.456	3687.540	3686.195	3681.593
3	3659.192	3662.052	3657.974	3659.022	3657.514
4	3621.561	3629.328	3622.283	3622.672	3621.221
5	3583.434	3580.170	3574.676	3573.416	3571.171
6	3524.053	3525.760	3518.545	3514.573	3514.028
7	3458.824	3456.622	3453.202	3445.945	3440.019
8	3375.980	3379.654	3370.924	3363.561	3361.678
9	3281.651	3284.887	3279.732	3274.252	3271.725
10	3175.619	3177.092	3174.692	3172.674	3167.548
11	3060.985	3060.603	3059.137	3055.703	3051.625
12	2934.520	2937.515	2929.330	2931.107	2931.843
13	2802.582	2802.794	2794.701	2803.212	2805.492
14	2661.510	2664.909	2661.921	2669.256	2671.925
15	2516.821	2520.849	2519.858	2529.898	2532.475
16	2375.240	2377.208	2377.222	2388.472	2396.268
17	2236.363	2238.614	2239.577	2248.810	2258.354
18	2094.215	2100.786	2102.188	2111.505	2124.065
19	1964.578	1966.702	1972.805	1981.910	1991.235
20	1835.734	1843.006	1847.601	1856.514	1868.437
21	1716.477	1721.638	1728.555	1736.790	1747.728
22	1603.797	1609.907	1614.594	1625.108	1634.949
23	1497.163	1500.717	1506.098	1517.405	1527.926
24	1397.036	1398.671	1405.419	1416.039	1422.467
25	1300.038	1302.183	1309.773	1319.707	1324.408
26	1205.271	1210.538	1217.335	1226.221	1229.987
27	1112.224	1115.735	1127.156	1135.843	1135.397
28	1018.872	1022.759	1035.843	1041.302	1041.075
29	924.614	933.833	940.580	946.244	946.372
30	828.424	835.561	843.717	849.105	847.682
31	731.518	736.418	742.896	747.491	746.528
32	635.115	639.597	644.511	648.199	647.449
33	538.804	542.953	547.152	550.104	551.719
34	446.246	451.648	454.112	457.461	459.500
35	361.844	366.793	368.237	370.390	373.816
36	295.071	291.998	293.754	294.604	299.156
37	230.862	227.421	228.915	227.591	234.267
38	172.897	175.630	173.959	175.332	180.756
39	132.823	135.436	133.517	138.069	145.610
40	101.918	103.448	104.963	106.124	110.584
41	82.314	81.011	82.632	85.471	89.422
42	64.797	65.859	68.769	71.488	74.235
43	54.467	55.586	57.731	60.393	63.169
44	47.656	48.548	50.439	52.896	55.055
45	42.849	43.585	45.327	47.267	48.959
46	39.472	40.116	41.617	43.125	44.399
47	37.015	37.595	38.827	40.010	41.065
48	35.146	35.670	36.689	37.652	38.544
49	33.701	34.133	34.976	35.740	36.562
50	32.448	32.781	33.524	34.162	34.884
51	31.259	31.535	32.207	32.746	33.397
52	30.013	30.253	30.806	31.245	31.776

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-950-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	28.689	28.908	29.361	29.694	30.133
54	27.315	27.499	27.882	28.151	28.497
55	25.892	26.062	26.388	26.586	26.869
56	24.398	24.554	24.816	25.014	25.219
57	22.876	22.989	23.194	23.393	23.556
58	21.332	21.432	21.594	21.786	21.948
59	19.796	19.874	20.001	20.185	20.334
60	18.281	18.359	18.465	18.621	18.769
61	16.858	16.936	16.985	17.141	17.268
62	15.534	15.590	15.633	15.753	15.881
63	14.309	14.358	14.380	14.479	14.592
64	13.197	13.233	13.247	13.318	13.438
65	12.206	12.234	12.220	12.284	12.411
66	11.264	11.307	11.272	11.342	11.456
67	10.443	10.472	10.436	10.493	10.592
68	9.686	9.693	9.657	9.700	9.799
69	8.978	8.963	8.935	8.949	9.048
70	8.305	8.270	8.234	8.241	8.319
71	7.647	7.604	7.554	7.540	7.618
72	6.995	6.960	6.889	6.861	6.946
73	6.344	6.301	6.223	6.181	6.280
74	5.671	5.629	5.537	5.494	5.586
75	4.942	4.921	4.814	4.779	4.857
76	4.114	4.099	3.993	3.986	4.043
77	3.193	3.179	3.059	3.052	3.101
78	2.131	2.131	2.025	1.968	2.004
79	1.430	1.451	1.409	1.402	1.395
80	1.296	1.289	1.282	1.267	1.267
81	1.211	1.211	1.204	1.197	1.197
82	1.140	1.133	1.140	1.133	1.133
83	1.062	1.055	1.062	1.055	1.062
84	0.977	0.970	0.977	0.970	0.977
85	0.878	0.878	0.878	0.878	0.878
86	0.765	0.765	0.772	0.765	0.772
87	0.651	0.644	0.651	0.637	0.637
88	0.510	0.510	0.510	0.503	0.510
89	0.368	0.361	0.368	0.354	0.354
90	0.276	0.269	0.269	0.248	0.234
91	0.255	0.255	0.255	0.234	0.234
92	0.255	0.255	0.255	0.234	0.234
93	0.262	0.255	0.255	0.241	0.234
94	0.262	0.255	0.262	0.241	0.241
95	0.262	0.255	0.262	0.241	0.248
96	0.262	0.255	0.262	0.248	0.248
97	0.269	0.255	0.262	0.248	0.248
98	0.269	0.262	0.262	0.248	0.255
99	0.276	0.269	0.269	0.255	0.262
100	0.276	0.276	0.269	0.262	0.262
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

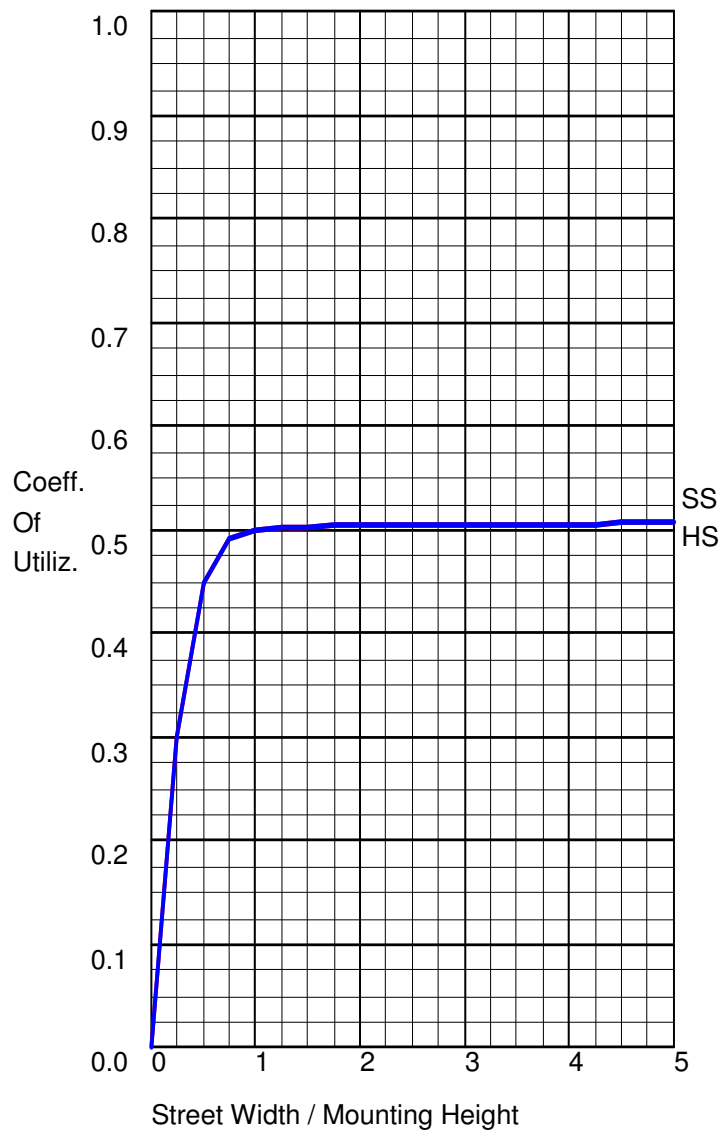
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-950-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L20-950-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

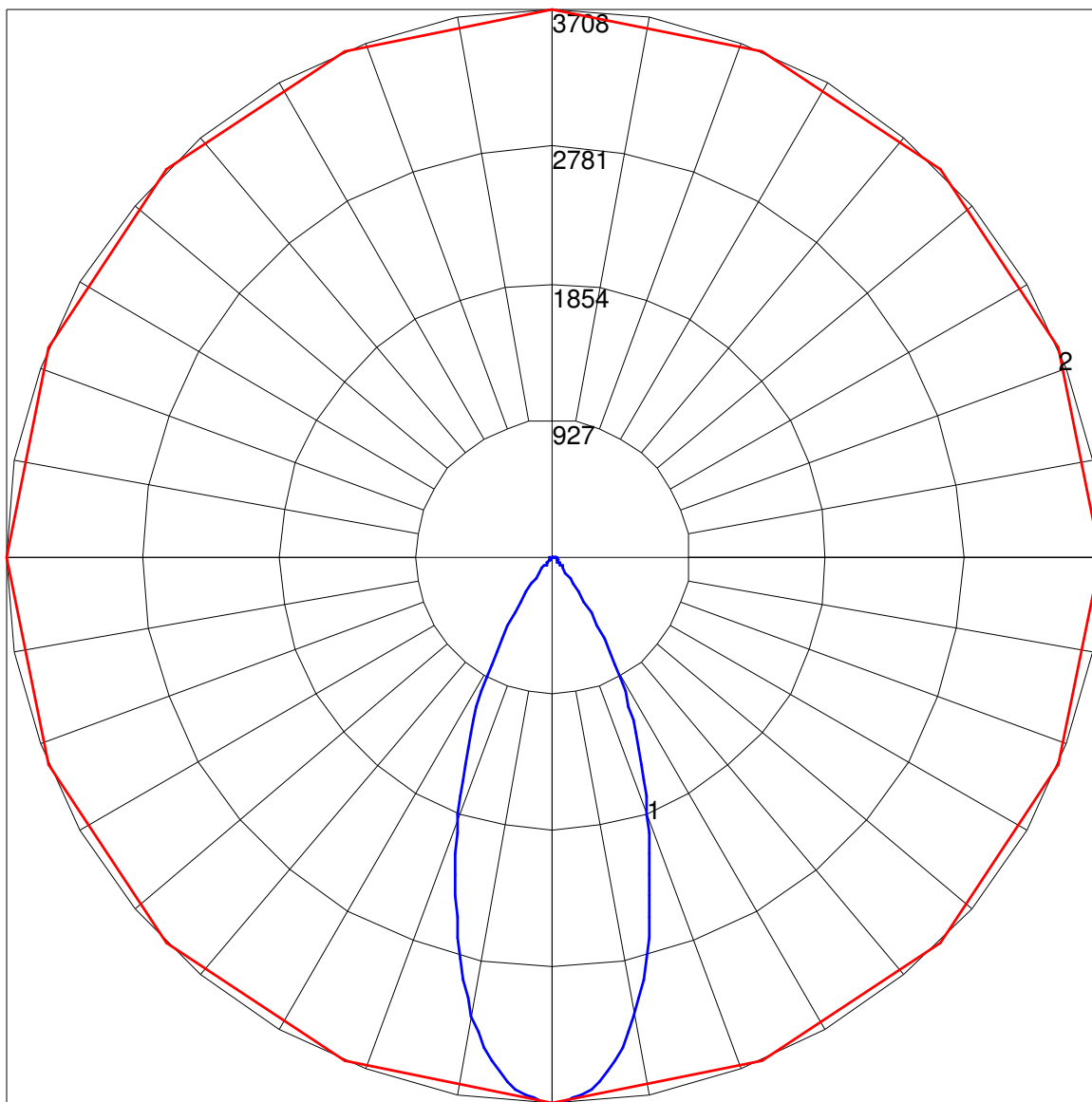
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

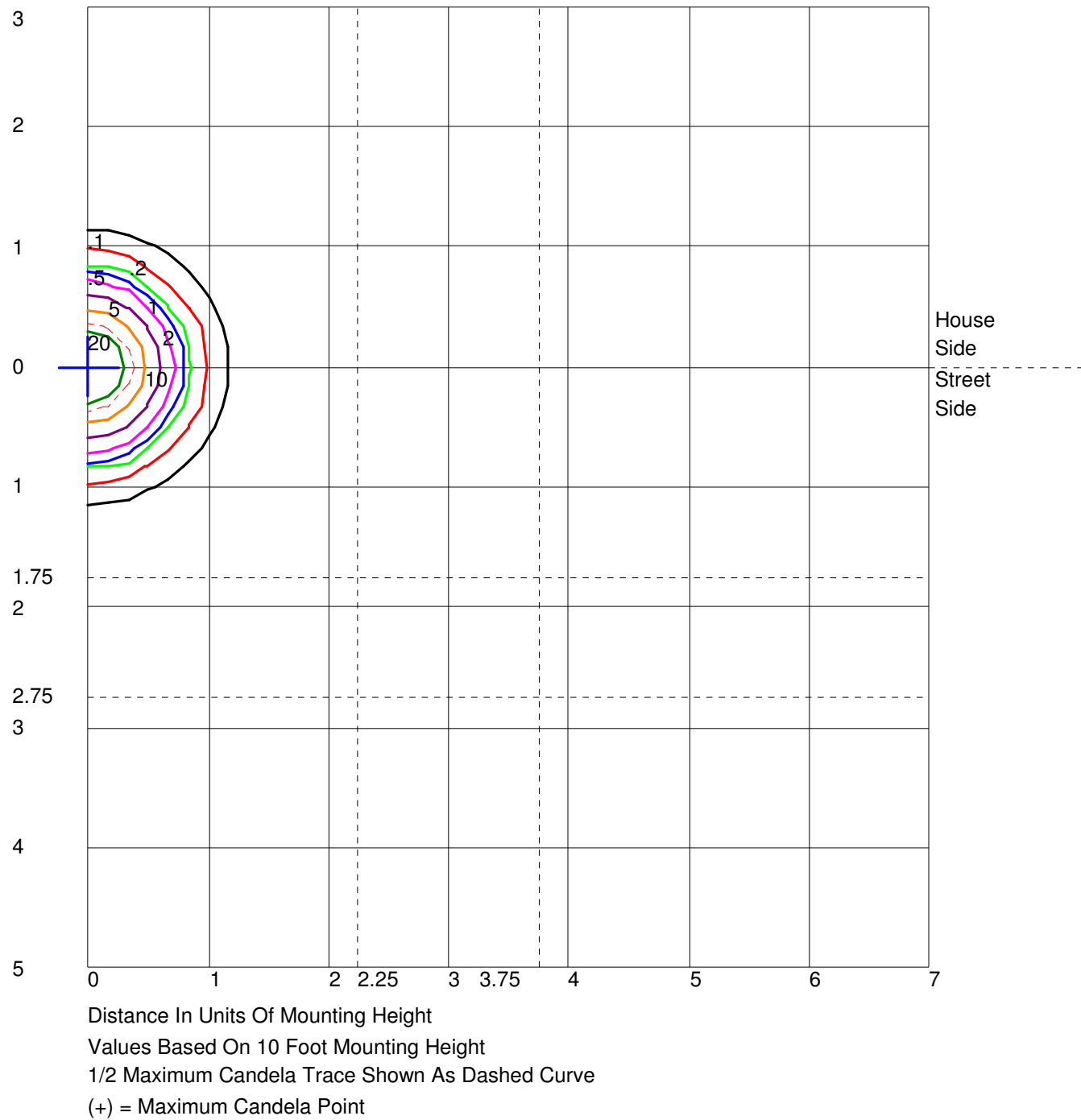
	Lumens	Percent Of Luminaire
Downward Street Side	974.1	50.0
Downward House Side	974.1	50.0
Downward Total	1948.2	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1948.4	100.0

POLAR GRAPH

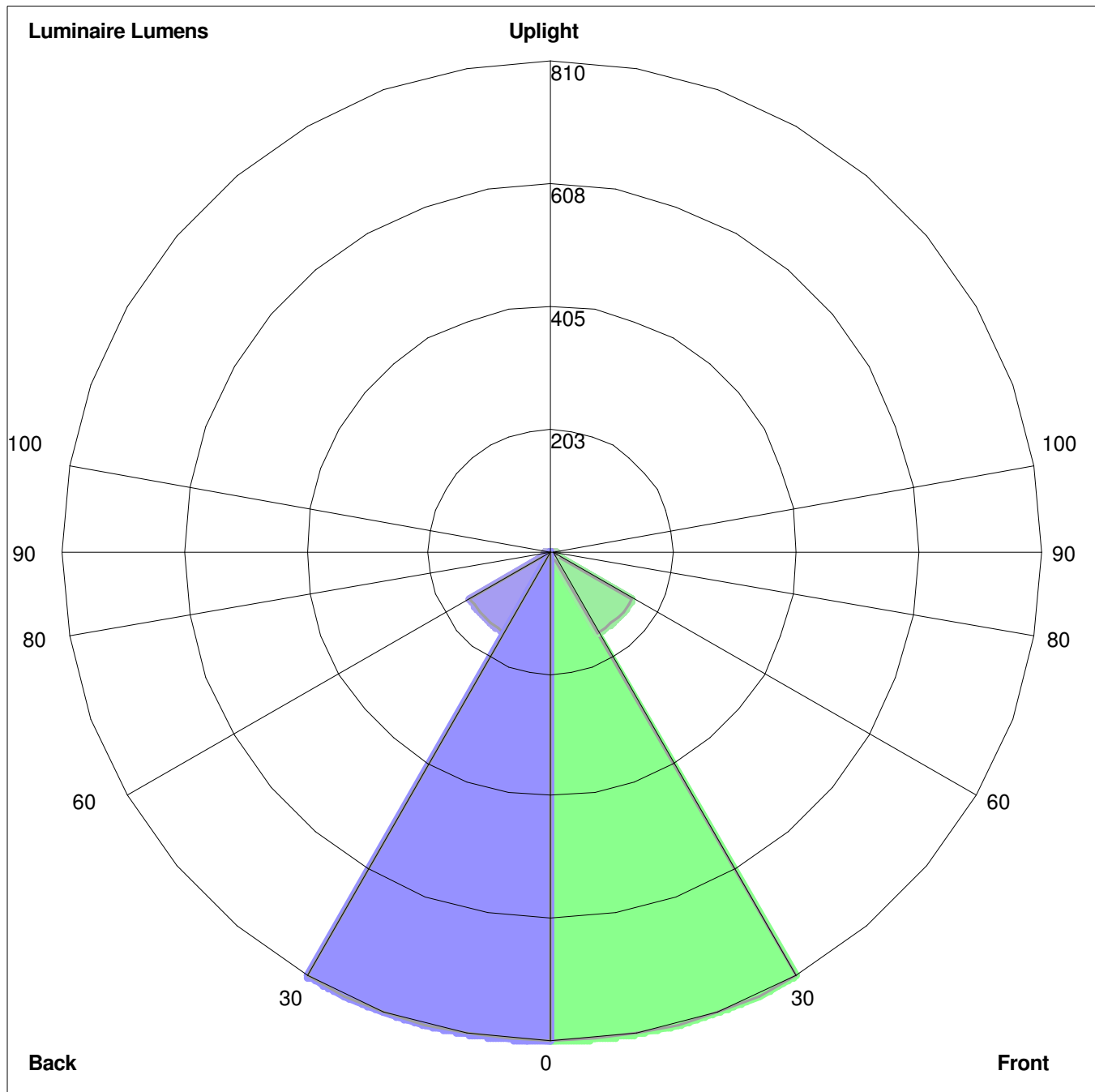


Maximum Candela = 3707.556 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=810.5, Medium=154.5, High=8.7, Very High=0.5
Back: Low=810.5, Medium=154.5, High=8.7, Very High=0.5
Uplight: Low=0.3, High=0.0

BUG Rating : B2-U1-G0