

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-950-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-L20-950-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	1983
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2498.798
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	2498.798
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.311 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.415 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	767.3	N.A.	38.7
FM - Front-Medium (30-60)	214.2	N.A.	10.8
FH - Front-High (60-80)	9.2	N.A.	0.5
FVH - Front-Very High (80-90)	0.5	N.A.	0.0
BL - Back-Low (0-30)	767.3	N.A.	38.7
BM - Back-Medium (30-60)	214.2	N.A.	10.8
BH - Back-High (60-80)	9.2	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	1982.7	N.A.	100.0
BUG Rating	B2-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-950-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	2494.649	2494.649	2494.649	2494.649	2494.649
1	2490.663	2490.545	2490.937	2493.931	2496.776
2	2492.827	2492.086	2489.611	2494.471	2498.798
3	2490.485	2487.359	2489.656	2488.115	2493.464
4	2486.766	2484.254	2483.180	2486.062	2491.115
5	2483.410	2482.402	2480.157	2482.187	2485.210
6	2476.379	2477.690	2471.755	2476.312	2473.778
7	2466.465	2470.570	2465.917	2465.873	2463.072
8	2457.182	2456.337	2454.396	2454.759	2455.389
9	2445.283	2442.438	2440.126	2441.356	2440.423
10	2422.767	2423.486	2422.019	2420.567	2419.685
11	2395.043	2397.184	2394.228	2395.420	2392.449
12	2362.673	2360.531	2359.650	2363.236	2361.828
13	2320.501	2319.819	2321.782	2325.820	2325.576
14	2277.558	2274.002	2275.187	2276.839	2281.463
15	2224.035	2222.198	2219.316	2225.917	2223.428
16	2166.890	2161.526	2159.214	2163.956	2167.245
17	2103.402	2097.238	2097.638	2097.356	2104.773
18	2034.031	2030.853	2031.394	2027.178	2035.246
19	1960.867	1958.185	1957.889	1958.548	1963.157
20	1886.555	1886.251	1884.332	1885.333	1891.534
21	1814.754	1811.591	1810.761	1813.265	1815.310
22	1736.323	1739.546	1737.479	1739.560	1742.042
23	1664.226	1663.062	1662.951	1664.685	1670.590
24	1588.824	1587.402	1589.017	1592.625	1594.707
25	1512.682	1512.215	1513.608	1518.165	1518.913
26	1434.591	1434.969	1438.318	1442.022	1441.644
27	1348.713	1350.899	1358.456	1361.797	1358.449
28	1259.946	1260.420	1270.904	1274.356	1269.266
29	1164.222	1166.978	1176.224	1178.528	1175.120
30	1062.844	1065.082	1075.032	1077.321	1072.698
31	953.332	958.525	964.927	969.320	967.549
32	843.804	849.620	853.762	858.785	857.326
33	733.077	736.633	742.560	747.383	747.324
34	622.342	628.654	632.766	639.694	641.998
35	519.186	526.025	528.129	534.923	538.857
36	426.373	431.456	433.545	438.258	445.185
37	343.193	347.171	349.216	353.432	360.848
38	276.282	275.030	279.149	283.557	287.499
39	215.609	219.129	220.122	224.463	229.694
40	169.533	173.052	175.564	179.194	183.943
41	133.844	136.711	139.660	146.506	152.603
42	107.445	109.542	114.484	118.159	121.404
43	89.901	90.686	93.924	98.117	100.718
44	74.253	75.713	78.817	83.351	84.826
45	63.614	64.881	67.585	70.949	72.445
46	55.664	56.701	59.042	61.680	62.680
47	49.529	50.500	52.337	54.471	55.345
48	44.899	45.684	47.099	48.877	49.803
49	41.216	41.876	43.069	44.454	45.321
50	38.208	38.764	39.786	40.920	41.624
51	35.667	36.126	37.060	38.001	38.594
52	33.289	33.711	34.504	35.289	35.763

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

53	31.133	31.488	32.148	32.785	33.170
54	29.147	29.473	30.029	30.518	30.844
55	27.354	27.599	28.110	28.495	28.740
56	25.613	25.850	26.280	26.606	26.754
57	23.968	24.153	24.502	24.791	24.887
58	22.360	22.516	22.805	23.049	23.131
59	20.797	20.916	21.138	21.368	21.442
60	19.256	19.360	19.552	19.730	19.812
61	17.811	17.893	18.041	18.189	18.234
62	16.463	16.507	16.611	16.737	16.774
63	15.188	15.226	15.292	15.389	15.440
64	14.010	14.040	14.085	14.166	14.218
65	12.951	12.981	12.988	13.047	13.129
66	11.958	11.988	11.980	12.032	12.084
67	11.062	11.084	11.062	11.099	11.143
68	10.232	10.239	10.224	10.224	10.276
69	9.454	9.446	9.424	9.409	9.446
70	8.713	8.698	8.654	8.624	8.654
71	7.994	7.965	7.905	7.861	7.876
72	7.283	7.253	7.187	7.120	7.150
73	6.594	6.542	6.453	6.387	6.424
74	5.883	5.823	5.735	5.660	5.705
75	5.120	5.075	4.979	4.927	4.957
76	4.282	4.245	4.142	4.119	4.134
77	3.334	3.319	3.216	3.201	3.216
78	2.252	2.252	2.171	2.126	2.141
79	1.563	1.578	1.541	1.534	1.511
80	1.415	1.408	1.400	1.393	1.385
81	1.319	1.319	1.319	1.311	1.311
82	1.245	1.237	1.245	1.237	1.237
83	1.156	1.156	1.163	1.156	1.156
84	1.067	1.059	1.074	1.059	1.059
85	0.963	0.956	0.963	0.956	0.956
86	0.845	0.845	0.845	0.837	0.837
87	0.711	0.704	0.711	0.704	0.696
88	0.563	0.556	0.563	0.556	0.548
89	0.407	0.400	0.400	0.385	0.385
90	0.311	0.296	0.296	0.274	0.259
91	0.289	0.274	0.282	0.267	0.259
92	0.289	0.274	0.282	0.259	0.259
93	0.289	0.282	0.282	0.267	0.259
94	0.289	0.282	0.282	0.267	0.267
95	0.296	0.282	0.282	0.267	0.267
96	0.296	0.282	0.282	0.267	0.267
97	0.296	0.289	0.289	0.274	0.274
98	0.296	0.289	0.296	0.274	0.282
99	0.304	0.296	0.296	0.282	0.282
100	0.304	0.296	0.304	0.282	0.289
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

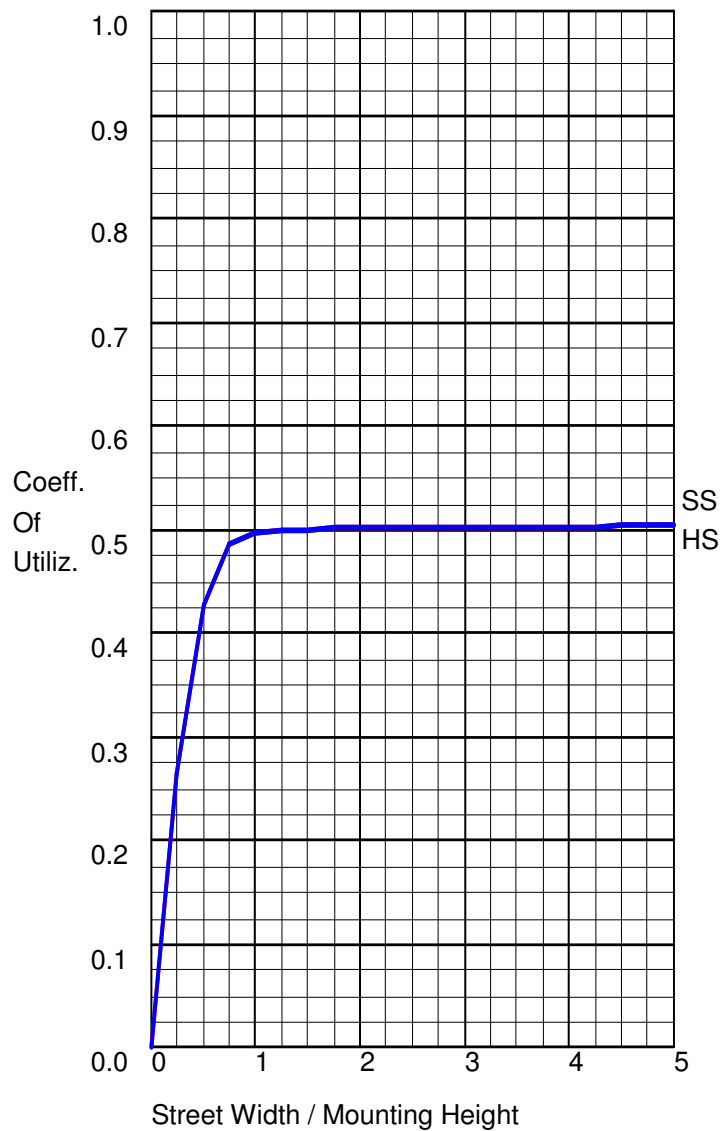
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-950-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

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-L20-950-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

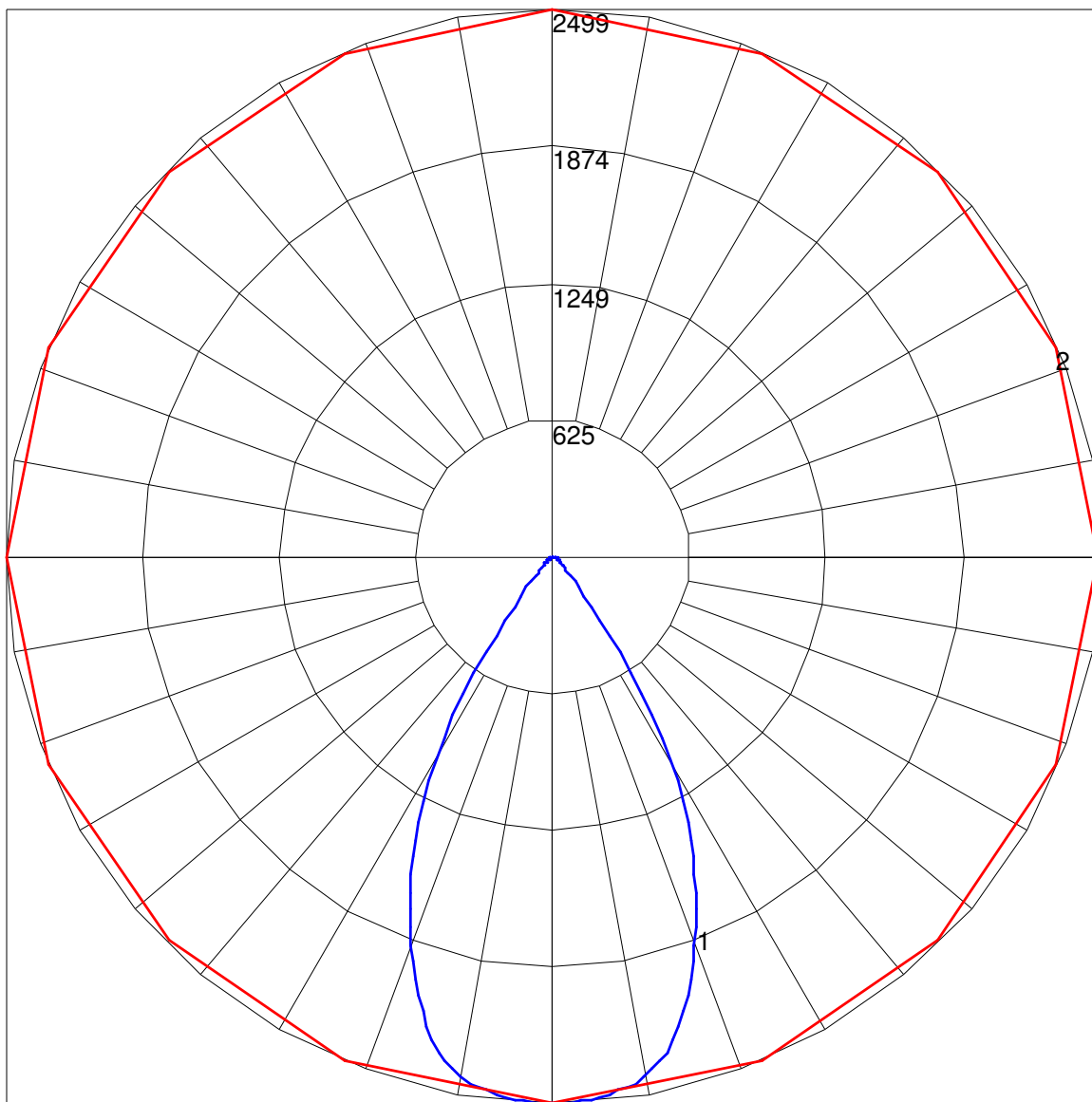
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

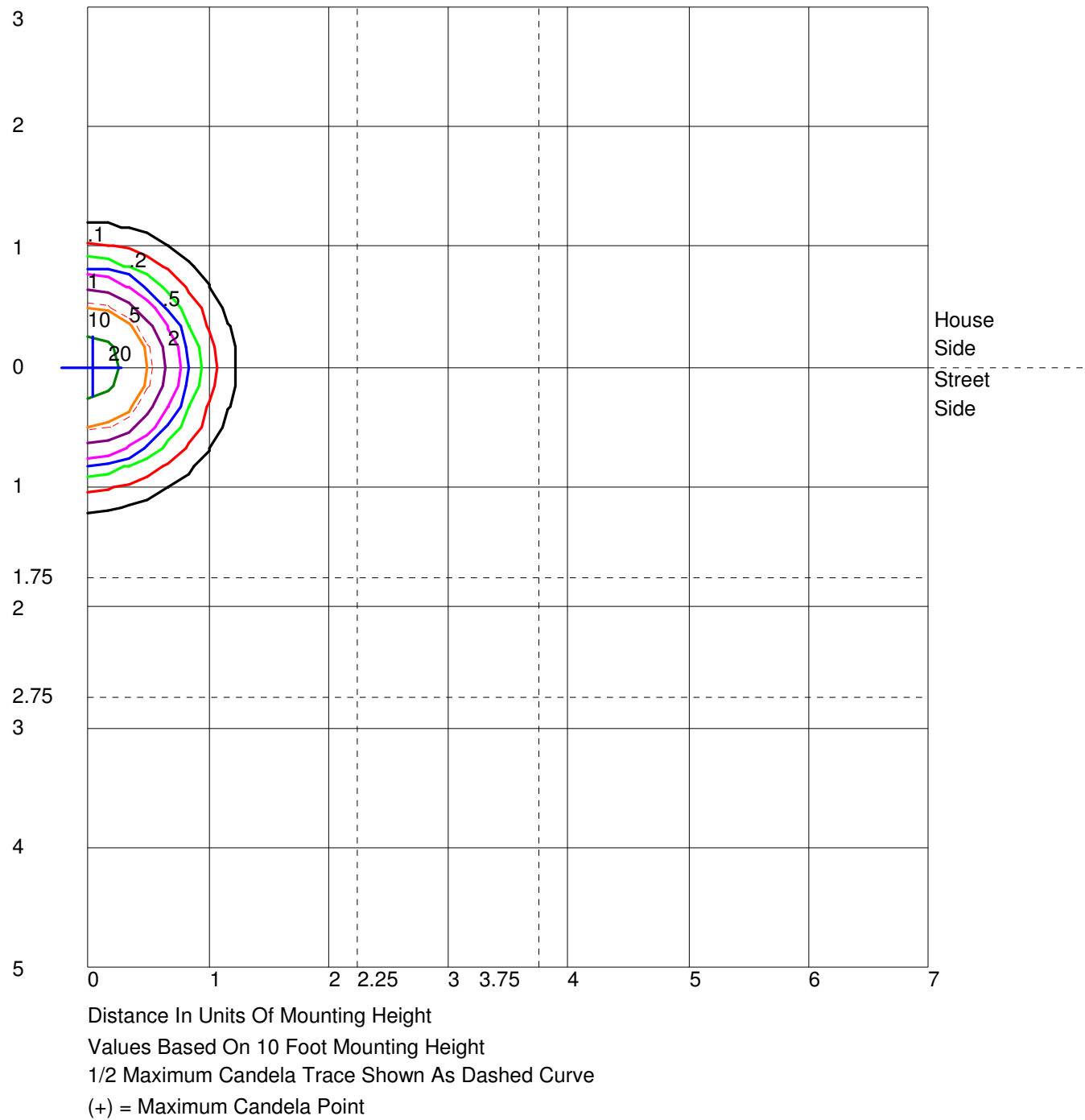
	Lumens	Percent Of Luminaire
Downward Street Side	991.1	50.0
Downward House Side	991.1	50.0
Downward Total	1982.2	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	1982.6	100.0

POLAR GRAPH

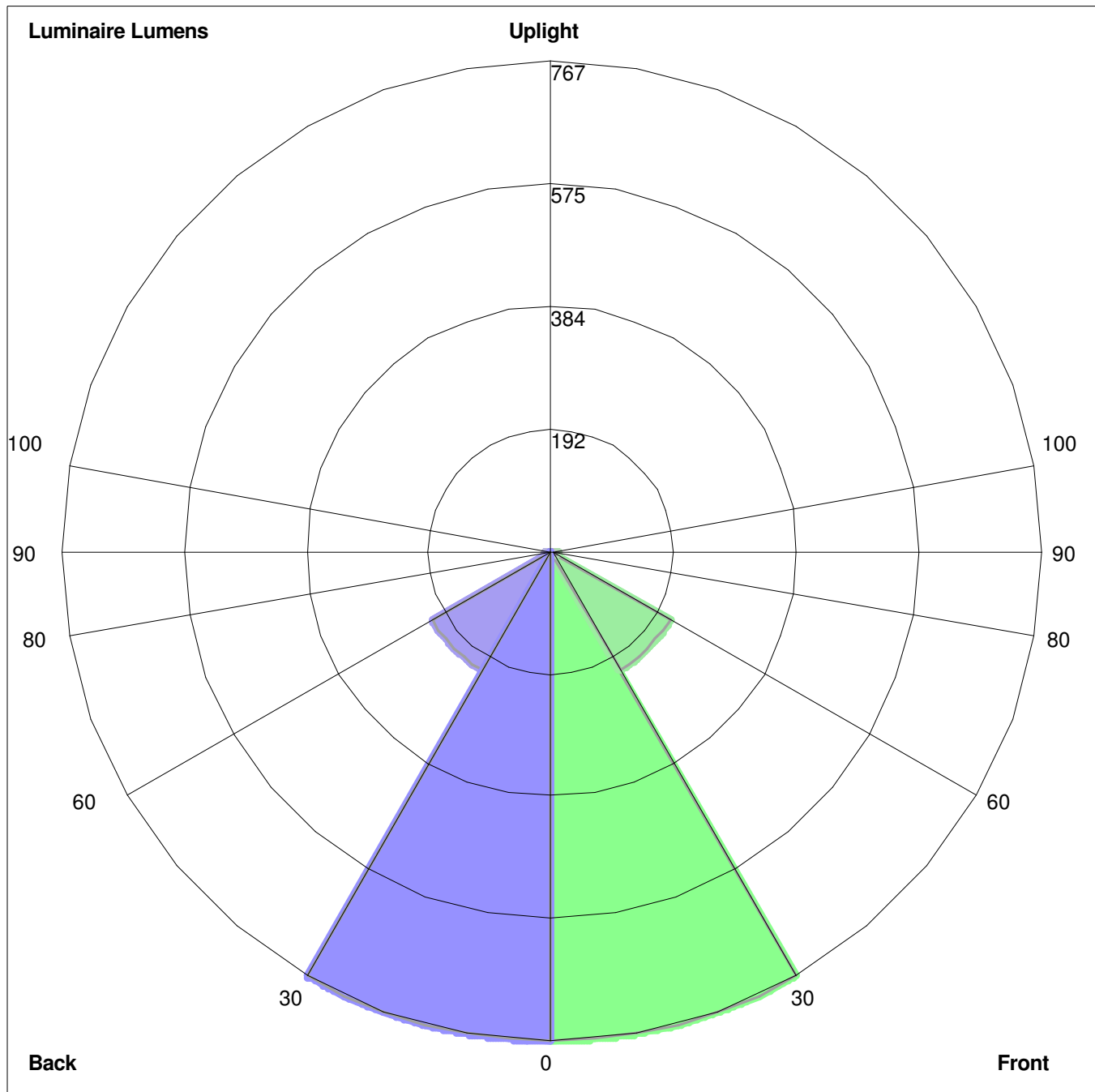


Maximum Candela = 2498.798 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=767.3, Medium=214.2, High=9.2, Very High=0.5
Back: Low=767.3, Medium=214.2, High=9.2, Very High=0.5
Uplight: Low=0.3, High=0.0

BUG Rating : B2-U1-G0