

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-850-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-L15-850-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	1548
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1951.449
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	1951.449
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.243 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.105 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-850-XXX-DIM-UNV-W-XXX_.IES_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	599.2	N.A.	38.7
FM - Front-Medium (30-60)	167.3	N.A.	10.8
FH - Front-High (60-80)	7.2	N.A.	0.5
FVH - Front-Very High (80-90)	0.4	N.A.	0.0
BL - Back-Low (0-30)	599.2	N.A.	38.7
BM - Back-Medium (30-60)	167.3	N.A.	10.8
BH - Back-High (60-80)	7.2	N.A.	0.5
BVH - Back-Very High (80-90)	0.4	N.A.	0.0
UL - Uplight-Low (90-100)	0.2	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	1548.4	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	1948.208	1948.208	1948.208	1948.208	1948.208
1	1945.095	1945.003	1945.310	1947.647	1949.869
2	1946.785	1946.206	1944.274	1948.070	1951.449
3	1944.957	1942.515	1944.309	1943.105	1947.283
4	1942.052	1940.091	1939.252	1941.502	1945.448
5	1939.431	1938.644	1936.891	1938.476	1940.837
6	1933.940	1934.964	1930.329	1933.888	1931.909
7	1926.198	1929.404	1925.770	1925.735	1923.548
8	1918.948	1918.288	1916.773	1917.056	1917.548
9	1909.656	1907.434	1905.629	1906.589	1905.860
10	1892.072	1892.633	1891.487	1890.353	1889.665
11	1870.420	1872.092	1869.784	1870.715	1868.395
12	1845.141	1843.468	1842.780	1845.580	1844.481
13	1812.206	1811.674	1813.207	1816.361	1816.170
14	1778.670	1775.893	1776.818	1778.109	1781.719
15	1736.871	1735.436	1733.185	1738.341	1736.397
16	1692.243	1688.054	1686.249	1689.952	1692.521
17	1642.662	1637.848	1638.160	1637.940	1643.732
18	1588.487	1586.004	1586.427	1583.135	1589.436
19	1531.349	1529.254	1529.023	1529.538	1533.137
20	1473.314	1473.077	1471.579	1472.360	1477.203
21	1417.241	1414.771	1414.123	1416.078	1417.675
22	1355.990	1358.507	1356.892	1358.518	1360.456
23	1299.685	1298.777	1298.690	1300.044	1304.655
24	1240.800	1239.689	1240.950	1243.768	1245.394
25	1181.336	1180.972	1182.059	1185.618	1186.202
26	1120.351	1120.646	1123.261	1126.154	1125.859
27	1053.284	1054.991	1060.893	1063.502	1060.887
28	983.961	984.331	992.518	995.215	991.240
29	909.204	911.357	918.578	920.377	917.716
30	830.033	831.781	839.551	841.339	837.729
31	744.509	748.565	753.564	756.995	755.612
32	658.973	663.515	666.750	670.673	669.533
33	572.500	575.277	579.906	583.673	583.626
34	486.021	490.950	494.162	499.572	501.371
35	405.461	410.801	412.445	417.751	420.823
36	332.978	336.948	338.579	342.259	347.669
37	268.018	271.125	272.722	276.014	281.806
38	215.764	214.786	218.003	221.446	224.524
39	168.381	171.130	171.905	175.296	179.381
40	132.398	135.146	137.107	139.943	143.651
41	104.526	106.765	109.068	114.414	119.176
42	83.910	85.547	89.407	92.277	94.811
43	70.209	70.822	73.350	76.625	78.656
44	57.988	59.128	61.553	65.094	66.245
45	49.679	50.669	52.781	55.408	56.576
46	43.471	44.281	46.109	48.169	48.950
47	38.680	39.438	40.873	42.539	43.222
48	35.064	35.677	36.782	38.171	38.894
49	32.188	32.703	33.635	34.717	35.394
50	29.839	30.273	31.071	31.957	32.506
51	27.854	28.213	28.942	29.677	30.140
52	25.997	26.327	26.946	27.559	27.929

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-850-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

53	24.313	24.591	25.106	25.603	25.904
54	22.763	23.017	23.451	23.833	24.088
55	21.362	21.553	21.952	22.253	22.444
56	20.003	20.188	20.523	20.778	20.894
57	18.718	18.863	19.135	19.360	19.436
58	17.462	17.584	17.810	18.001	18.064
59	16.242	16.334	16.508	16.687	16.745
60	15.038	15.119	15.270	15.408	15.472
61	13.910	13.973	14.089	14.205	14.240
62	12.857	12.891	12.972	13.071	13.100
63	11.862	11.890	11.943	12.018	12.058
64	10.942	10.965	10.999	11.063	11.104
65	10.114	10.137	10.143	10.189	10.253
66	9.339	9.362	9.356	9.397	9.437
67	8.639	8.656	8.639	8.668	8.702
68	7.991	7.996	7.985	7.985	8.025
69	7.383	7.377	7.360	7.348	7.377
70	6.804	6.793	6.758	6.735	6.758
71	6.243	6.220	6.174	6.139	6.151
72	5.688	5.665	5.613	5.560	5.584
73	5.150	5.109	5.040	4.988	5.017
74	4.594	4.548	4.478	4.421	4.455
75	3.998	3.963	3.888	3.848	3.871
76	3.344	3.315	3.234	3.217	3.229
77	2.604	2.592	2.511	2.500	2.511
78	1.759	1.759	1.695	1.661	1.672
79	1.221	1.232	1.204	1.198	1.180
80	1.105	1.099	1.094	1.088	1.082
81	1.030	1.030	1.030	1.024	1.024
82	0.972	0.966	0.972	0.966	0.966
83	0.903	0.903	0.908	0.903	0.903
84	0.833	0.827	0.839	0.827	0.827
85	0.752	0.746	0.752	0.746	0.746
86	0.660	0.660	0.660	0.654	0.654
87	0.555	0.550	0.555	0.550	0.544
88	0.440	0.434	0.440	0.434	0.428
89	0.318	0.312	0.312	0.301	0.301
90	0.243	0.231	0.231	0.214	0.203
91	0.226	0.214	0.220	0.208	0.203
92	0.226	0.214	0.220	0.203	0.203
93	0.226	0.220	0.220	0.208	0.203
94	0.226	0.220	0.220	0.208	0.208
95	0.231	0.220	0.220	0.208	0.208
96	0.231	0.220	0.220	0.208	0.208
97	0.231	0.226	0.226	0.214	0.214
98	0.231	0.226	0.231	0.214	0.220
99	0.237	0.231	0.231	0.220	0.220
100	0.237	0.231	0.237	0.220	0.226
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

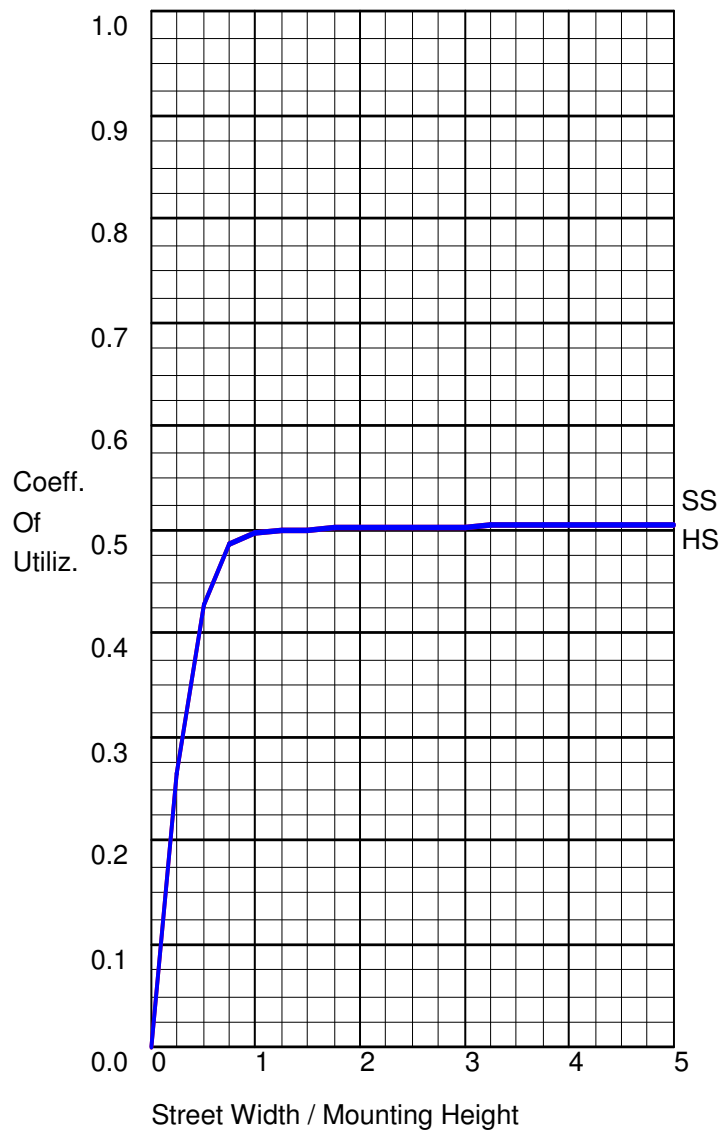
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-850-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

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-L15-850-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

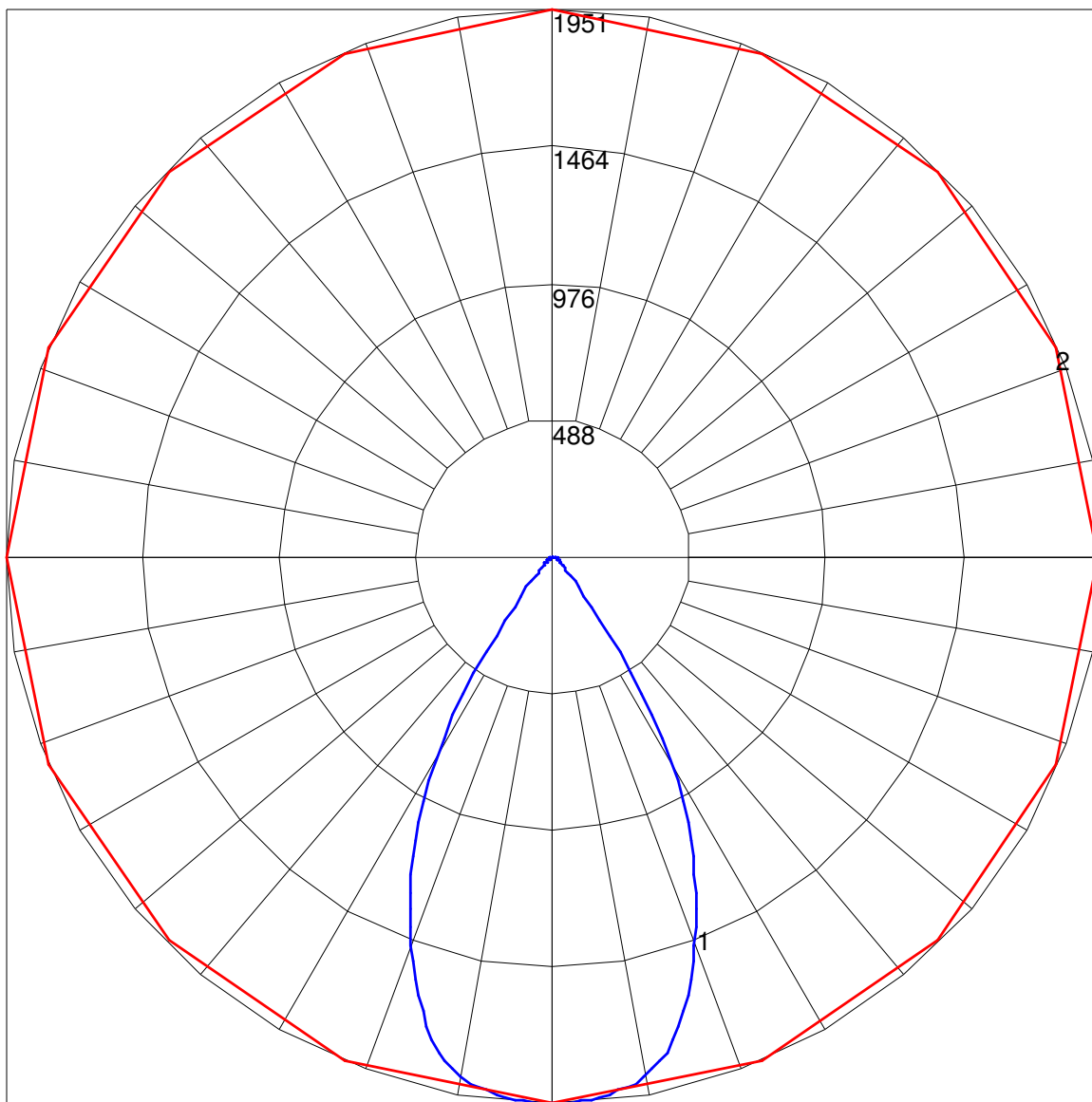
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

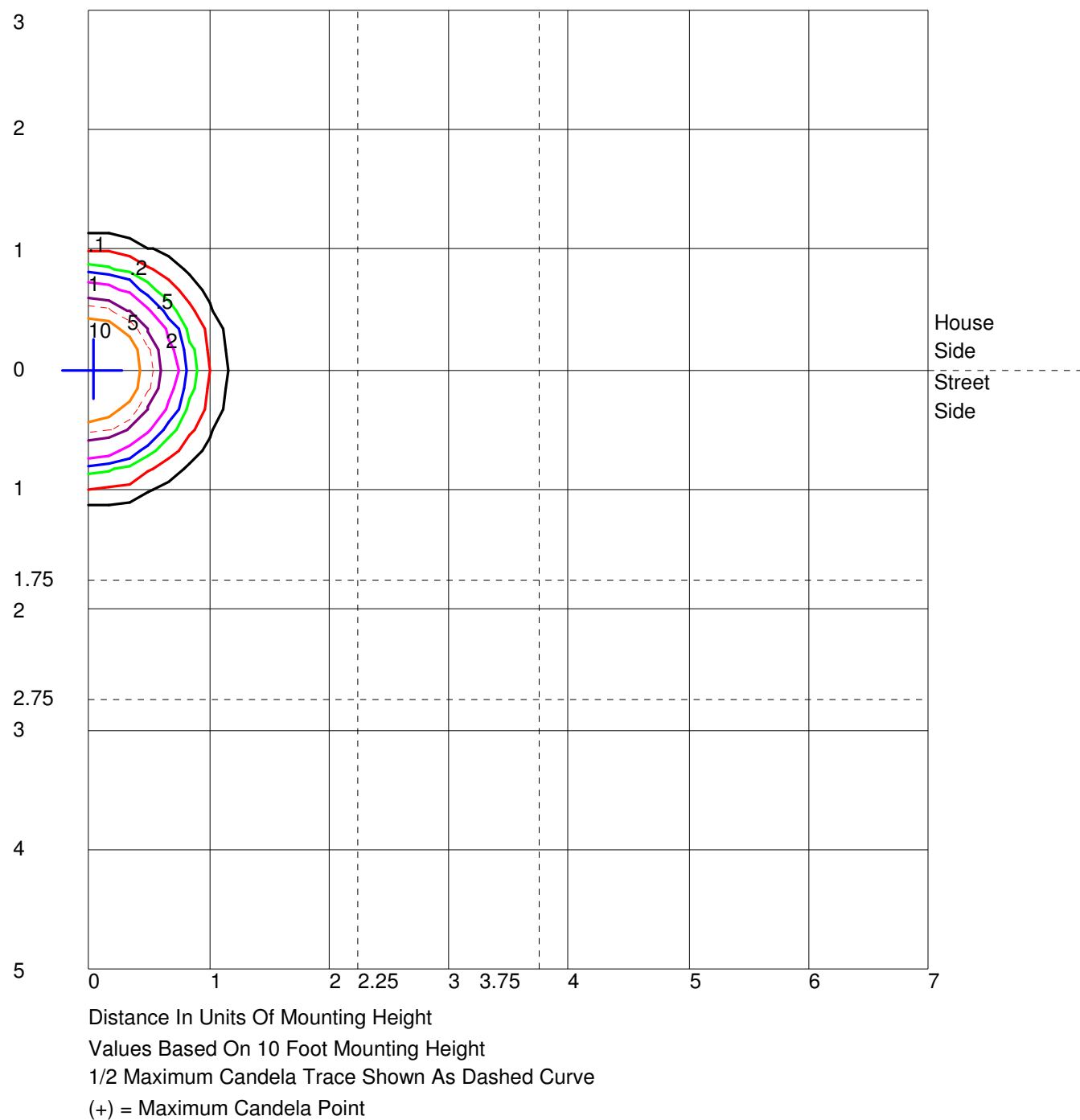
	Lumens	Percent Of Luminaire
Downward Street Side	774.0	50.0
Downward House Side	774.0	50.0
Downward Total	1548.0	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1548.2	100.0

POLAR GRAPH

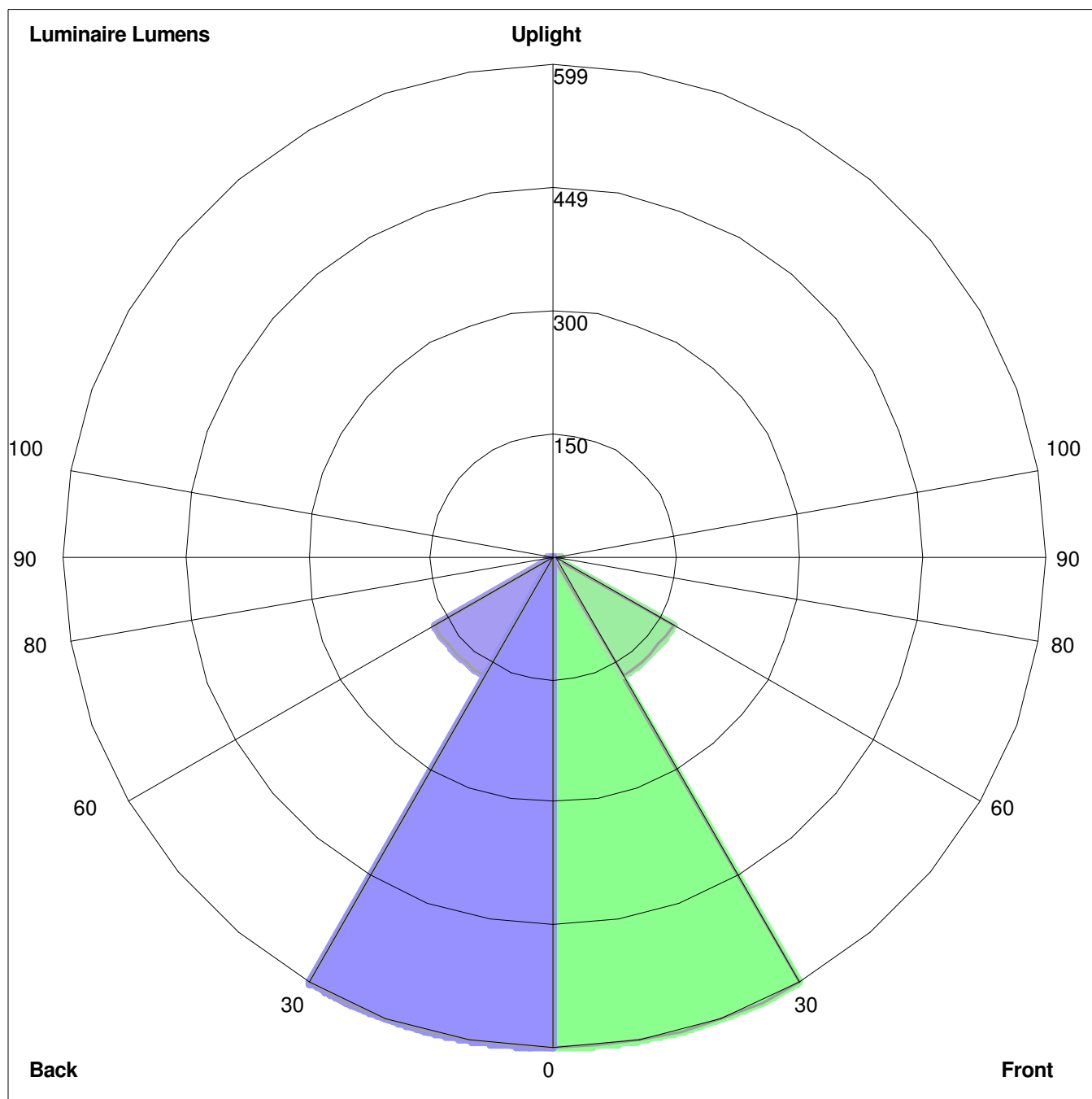


Maximum Candela = 1951.449 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=599.2, Medium=167.3, High=7.2, Very High=0.4
Back: Low=599.2, Medium=167.3, High=7.2, Very High=0.4
Uplight: Low=0.2, High=0.0

BUG Rating : B2-U1-G0