

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-950-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-L15-950-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	1461
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2780.215
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	2780.215
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.207 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.972 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-950-XXX-DIM-UNV-M-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	607.7	N.A.	41.6
FM - Front-Medium (30-60)	115.9	N.A.	7.9
FH - Front-High (60-80)	6.5	N.A.	0.4
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	607.7	N.A.	41.6
BM - Back-Medium (30-60)	115.9	N.A.	7.9
BH - Back-High (60-80)	6.5	N.A.	0.4
BVH - Back-Very High (80-90)	0.3	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	1461.0	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	2780.215	2780.215	2780.215	2780.215	2780.215
1	2775.925	2776.583	2774.736	2774.104	2774.353
2	2764.250	2768.142	2765.206	2764.197	2760.746
3	2743.948	2746.092	2743.034	2743.820	2742.689
4	2715.729	2721.553	2716.271	2716.563	2715.474
5	2687.139	2684.691	2680.571	2679.626	2677.943
6	2642.610	2643.890	2638.480	2635.501	2635.092
7	2593.696	2592.045	2589.481	2584.039	2579.595
8	2531.573	2534.329	2527.782	2522.261	2520.848
9	2460.838	2463.265	2459.399	2455.290	2453.395
10	2381.327	2382.432	2380.632	2379.119	2375.275
11	2295.365	2295.079	2293.980	2291.405	2288.347
12	2200.532	2202.778	2196.640	2197.973	2198.525
13	2101.595	2101.754	2095.685	2102.067	2103.777
14	1995.808	1998.357	1996.116	2001.616	2003.618
15	1887.309	1890.330	1889.586	1897.115	1899.047
16	1781.140	1782.616	1782.627	1791.063	1796.909
17	1677.000	1678.688	1679.410	1686.333	1693.490
18	1570.406	1575.333	1576.384	1583.371	1592.790
19	1473.194	1474.787	1479.364	1486.191	1493.183
20	1376.577	1382.029	1385.475	1392.159	1401.100
21	1287.148	1291.019	1296.206	1302.380	1310.583
22	1202.652	1207.234	1210.748	1218.633	1226.012
23	1122.690	1125.355	1129.390	1137.869	1145.758
24	1047.606	1048.833	1053.893	1061.856	1066.677
25	974.870	976.479	982.170	989.619	993.144
26	903.806	907.756	912.853	919.516	922.340
27	834.032	836.665	845.229	851.744	851.409
28	764.030	766.945	776.756	780.850	780.680
29	693.348	700.261	705.320	709.568	709.663
30	621.217	626.569	632.685	636.725	635.658
31	548.550	552.224	557.081	560.527	559.805
32	476.259	479.620	483.304	486.071	485.508
33	404.038	407.149	410.297	412.511	413.722
34	334.630	338.681	340.529	343.040	344.569
35	271.339	275.050	276.133	277.747	280.317
36	221.267	218.963	220.280	220.917	224.331
37	173.118	170.538	171.658	170.665	175.672
38	129.651	131.701	130.448	131.478	135.545
39	99.601	101.560	100.121	103.535	109.190
40	76.426	77.573	78.709	79.580	82.925
41	61.725	60.748	61.964	64.093	67.056
42	48.590	49.386	51.569	53.607	55.667
43	40.844	41.683	43.291	45.288	47.369
44	35.736	36.405	37.823	39.665	41.285
45	32.131	32.684	33.990	35.444	36.713
46	29.599	30.082	31.208	32.339	33.294
47	27.757	28.192	29.116	30.002	30.794
48	26.355	26.748	27.512	28.234	28.903
49	25.272	25.596	26.228	26.801	27.417
50	24.332	24.582	25.139	25.617	26.159
51	23.440	23.647	24.152	24.555	25.044
52	22.506	22.686	23.100	23.430	23.828

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-950-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	21.513	21.678	22.017	22.267	22.596
54	20.483	20.621	20.908	21.109	21.370
55	19.416	19.543	19.787	19.936	20.149
56	18.296	18.412	18.609	18.758	18.911
57	17.154	17.239	17.393	17.542	17.664
58	15.997	16.071	16.193	16.336	16.459
59	14.845	14.903	14.999	15.137	15.248
60	13.708	13.767	13.846	13.963	14.075
61	12.641	12.700	12.737	12.854	12.949
62	11.648	11.691	11.723	11.813	11.909
63	10.730	10.767	10.783	10.857	10.942
64	9.896	9.923	9.934	9.987	10.077
65	9.153	9.174	9.164	9.212	9.307
66	8.447	8.479	8.452	8.505	8.590
67	7.831	7.852	7.826	7.868	7.943
68	7.263	7.268	7.242	7.274	7.348
69	6.732	6.721	6.700	6.711	6.785
70	6.228	6.201	6.175	6.180	6.238
71	5.734	5.702	5.665	5.654	5.713
72	5.246	5.219	5.166	5.145	5.208
73	4.757	4.725	4.667	4.635	4.709
74	4.253	4.221	4.152	4.120	4.189
75	3.706	3.690	3.610	3.584	3.642
76	3.085	3.074	2.994	2.989	3.032
77	2.394	2.384	2.294	2.288	2.325
78	1.598	1.598	1.518	1.476	1.503
79	1.072	1.088	1.057	1.051	1.046
80	0.972	0.966	0.961	0.950	0.950
81	0.908	0.908	0.903	0.897	0.897
82	0.855	0.849	0.855	0.849	0.849
83	0.796	0.791	0.796	0.791	0.796
84	0.733	0.727	0.733	0.727	0.733
85	0.658	0.658	0.658	0.658	0.658
86	0.573	0.573	0.579	0.573	0.579
87	0.488	0.483	0.488	0.478	0.478
88	0.382	0.382	0.382	0.377	0.382
89	0.276	0.271	0.276	0.265	0.265
90	0.207	0.202	0.202	0.186	0.175
91	0.191	0.191	0.191	0.175	0.175
92	0.191	0.191	0.191	0.175	0.175
93	0.196	0.191	0.191	0.181	0.175
94	0.196	0.191	0.196	0.181	0.181
95	0.196	0.191	0.196	0.181	0.186
96	0.196	0.191	0.196	0.186	0.186
97	0.202	0.191	0.196	0.186	0.186
98	0.202	0.196	0.196	0.186	0.191
99	0.207	0.202	0.202	0.191	0.196
100	0.207	0.207	0.202	0.196	0.196
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

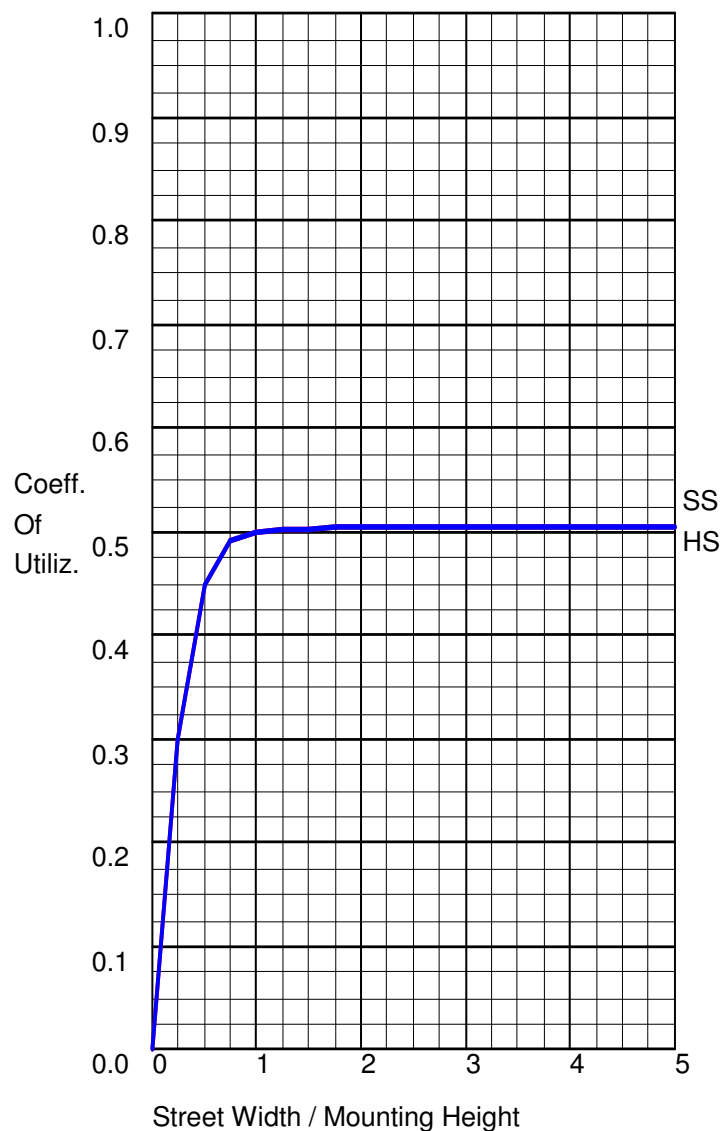
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-950-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L15-950-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

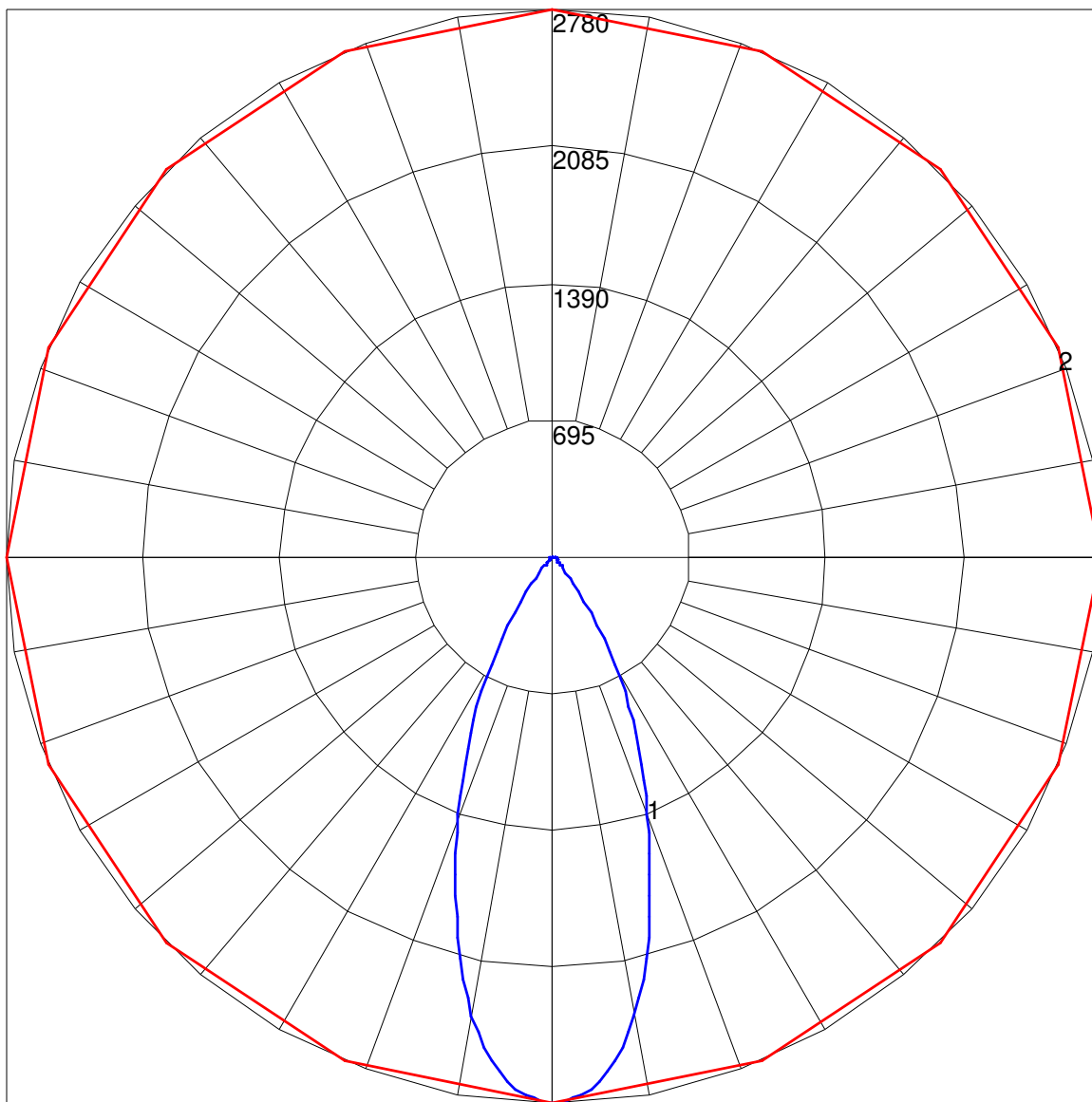
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

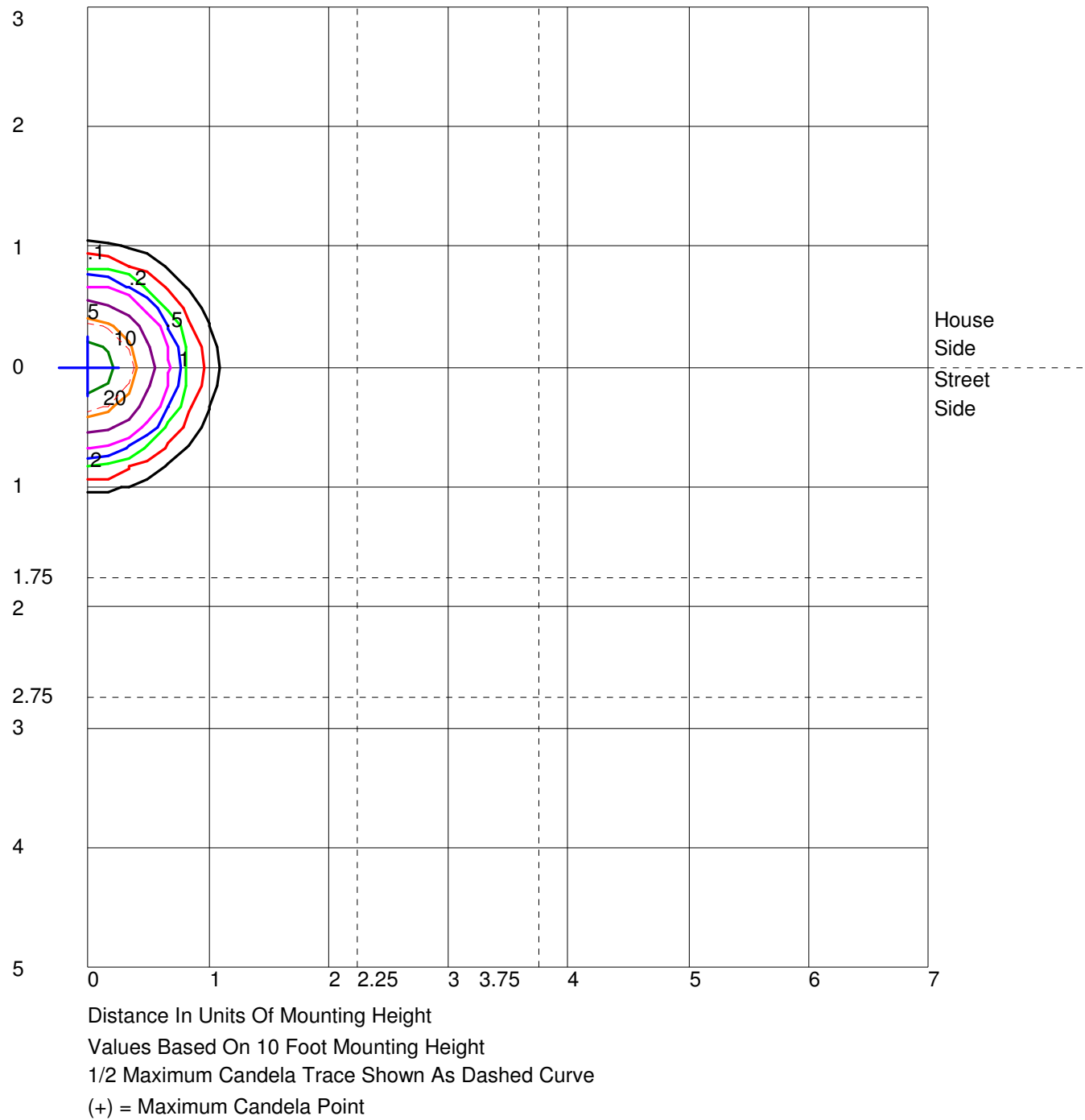
	Lumens	Percent Of Luminaire
Downward Street Side	730.5	50.0
Downward House Side	730.5	50.0
Downward Total	1461.0	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1461.2	100.0

POLAR GRAPH

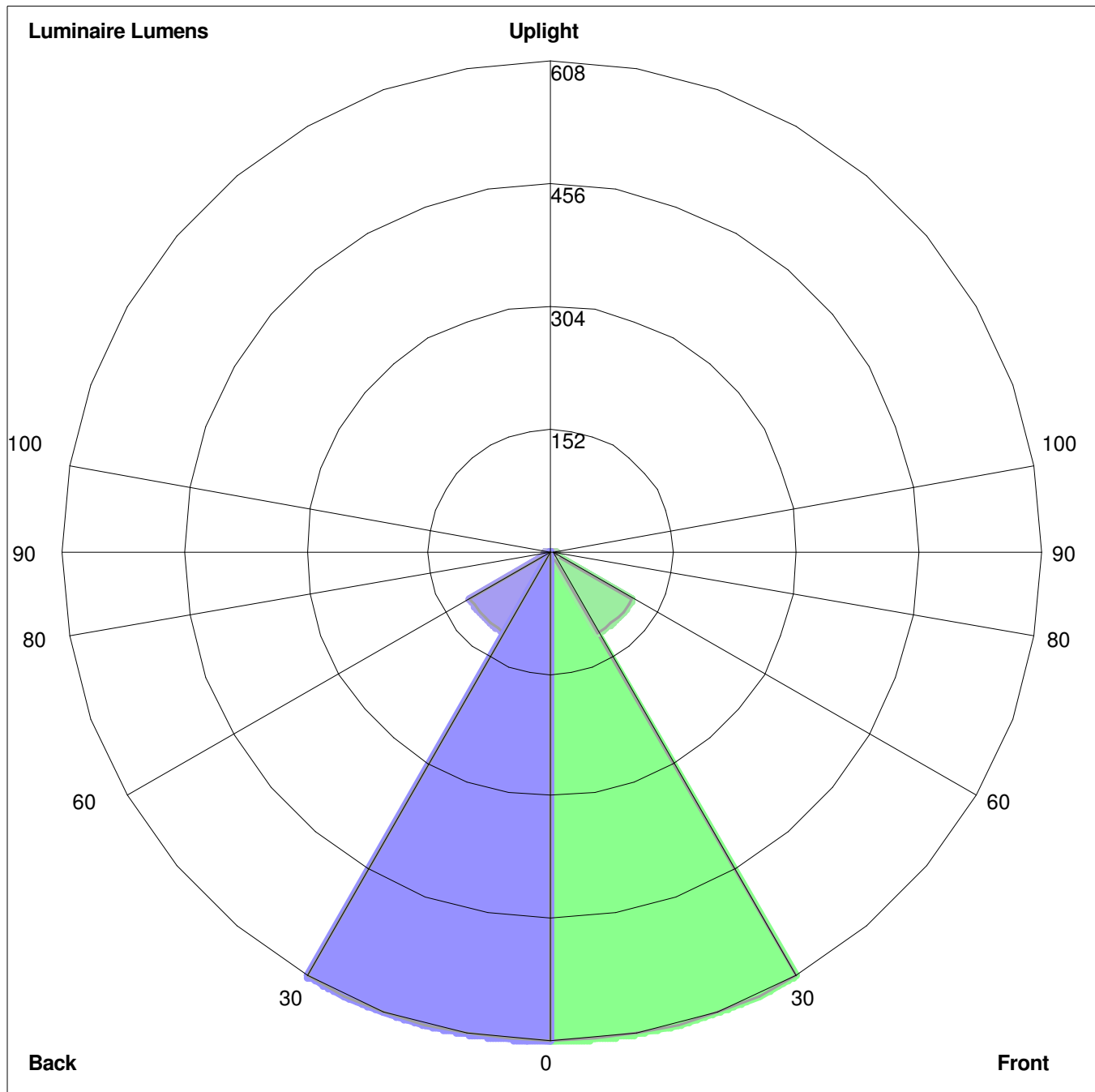


Maximum Candela = 2780.215 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=607.7, Medium=115.9, High=6.5, Very High=0.3
Back: Low=607.7, Medium=115.9, High=6.5, Very High=0.3
Uplight: Low=0.2, High=0.0

BUG Rating : B2-U1-G0