

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-950-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-L25-950-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	2460
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3101.049
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	3101.049
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.386 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.756 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-950-XXX-DIM-UNV-W-XXX_.IES_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	952.2	N.A.	38.7
FM - Front-Medium (30-60)	265.8	N.A.	10.8
FH - Front-High (60-80)	11.4	N.A.	0.5
FVH - Front-Very High (80-90)	0.6	N.A.	0.0
BL - Back-Low (0-30)	952.2	N.A.	38.7
BM - Back-Medium (30-60)	265.8	N.A.	10.8
BH - Back-High (60-80)	11.4	N.A.	0.5
BVH - Back-Very High (80-90)	0.6	N.A.	0.0
UL - Uplight-Low (90-100)	0.4	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	2460.4	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	3095.899	3095.899	3095.899	3095.899	3095.899
1	3090.953	3090.806	3091.293	3095.008	3098.538
2	3093.638	3092.718	3089.647	3095.679	3101.049
3	3090.732	3086.852	3089.702	3087.790	3094.428
4	3086.116	3082.999	3081.666	3085.243	3091.514
5	3081.951	3080.701	3077.915	3080.434	3084.185
6	3073.225	3074.853	3067.488	3073.143	3069.998
7	3060.923	3066.017	3060.242	3060.187	3056.712
8	3049.402	3048.354	3045.945	3046.395	3047.177
9	3034.635	3031.104	3028.236	3029.762	3028.604
10	3006.693	3007.584	3005.764	3003.962	3002.868
11	2972.286	2974.943	2971.275	2972.755	2969.068
12	2932.114	2929.457	2928.363	2932.813	2931.066
13	2879.778	2878.932	2881.369	2886.380	2886.077
14	2826.486	2822.072	2823.543	2825.594	2831.331
15	2760.063	2757.783	2754.206	2762.399	2759.309
16	2689.145	2682.488	2679.619	2685.504	2689.586
17	2610.355	2602.705	2603.202	2602.852	2612.056
18	2524.265	2520.321	2520.992	2515.760	2525.773
19	2433.468	2430.139	2429.771	2430.590	2436.309
20	2341.245	2340.868	2338.487	2339.728	2347.424
21	2252.139	2248.213	2247.183	2250.291	2252.829
22	2154.804	2158.804	2156.239	2158.822	2161.902
23	2065.331	2063.887	2063.749	2065.901	2073.229
24	1971.756	1969.991	1971.995	1976.473	1979.057
25	1877.262	1876.683	1878.412	1884.066	1884.995
26	1780.350	1780.819	1784.975	1789.573	1789.104
27	1673.775	1676.487	1685.866	1690.012	1685.856
28	1563.613	1564.201	1577.212	1581.497	1575.180
29	1444.817	1448.238	1459.713	1462.572	1458.343
30	1319.006	1321.783	1334.132	1336.973	1331.235
31	1183.100	1189.545	1197.489	1202.942	1200.744
32	1047.175	1054.392	1059.532	1065.766	1063.955
33	909.760	914.173	921.529	927.515	927.441
34	772.336	780.170	785.273	793.870	796.729
35	644.318	652.805	655.416	663.848	668.730
36	529.136	535.444	538.037	543.885	552.482
37	425.907	430.845	433.383	438.614	447.818
38	342.870	341.316	346.428	351.899	356.791
39	267.575	271.942	273.174	278.562	285.054
40	210.393	214.760	217.877	222.383	228.277
41	166.102	169.660	173.320	181.816	189.383
42	133.341	135.944	142.076	146.637	150.664
43	111.568	112.543	116.561	121.765	124.993
44	92.149	93.961	97.813	103.440	105.270
45	78.946	80.518	83.874	88.048	89.906
46	69.080	70.367	73.273	76.546	77.787
47	61.467	62.671	64.951	67.599	68.684
48	55.720	56.694	58.451	60.657	61.807
49	51.150	51.968	53.449	55.168	56.244
50	47.417	48.107	49.376	50.782	51.656
51	44.263	44.833	45.992	47.160	47.895
52	41.312	41.836	42.820	43.794	44.383

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-950-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

53	38.636	39.077	39.896	40.687	41.165
54	36.172	36.576	37.266	37.873	38.278
55	33.947	34.250	34.885	35.363	35.666
56	31.786	32.080	32.614	33.018	33.202
57	29.745	29.975	30.407	30.765	30.885
58	27.750	27.943	28.301	28.605	28.706
59	25.810	25.957	26.232	26.517	26.609
60	23.897	24.026	24.265	24.485	24.587
61	22.104	22.205	22.389	22.573	22.628
62	20.431	20.486	20.615	20.771	20.817
63	18.849	18.895	18.978	19.097	19.162
64	17.387	17.424	17.479	17.580	17.645
65	16.072	16.109	16.118	16.192	16.293
66	14.840	14.877	14.868	14.932	14.997
67	13.728	13.755	13.728	13.774	13.829
68	12.698	12.707	12.689	12.689	12.753
69	11.732	11.723	11.696	11.677	11.723
70	10.813	10.795	10.739	10.703	10.739
71	9.921	9.884	9.811	9.756	9.774
72	9.038	9.002	8.919	8.836	8.873
73	8.183	8.119	8.009	7.926	7.972
74	7.301	7.227	7.117	7.025	7.080
75	6.354	6.298	6.179	6.114	6.151
76	5.315	5.269	5.140	5.112	5.131
77	4.138	4.119	3.990	3.972	3.990
78	2.795	2.795	2.694	2.639	2.657
79	1.940	1.958	1.912	1.903	1.876
80	1.756	1.747	1.738	1.729	1.719
81	1.637	1.637	1.637	1.627	1.627
82	1.545	1.536	1.545	1.536	1.536
83	1.434	1.434	1.444	1.434	1.434
84	1.324	1.315	1.333	1.315	1.315
85	1.195	1.186	1.195	1.186	1.186
86	1.048	1.048	1.048	1.039	1.039
87	0.883	0.873	0.883	0.873	0.864
88	0.699	0.690	0.699	0.690	0.680
89	0.506	0.497	0.497	0.478	0.478
90	0.386	0.368	0.368	0.340	0.322
91	0.359	0.340	0.349	0.331	0.322
92	0.359	0.340	0.349	0.322	0.322
93	0.359	0.349	0.349	0.331	0.322
94	0.359	0.349	0.349	0.331	0.331
95	0.368	0.349	0.349	0.331	0.331
96	0.368	0.349	0.349	0.331	0.331
97	0.368	0.359	0.359	0.340	0.340
98	0.368	0.359	0.368	0.340	0.349
99	0.377	0.368	0.368	0.349	0.349
100	0.377	0.368	0.377	0.349	0.359
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

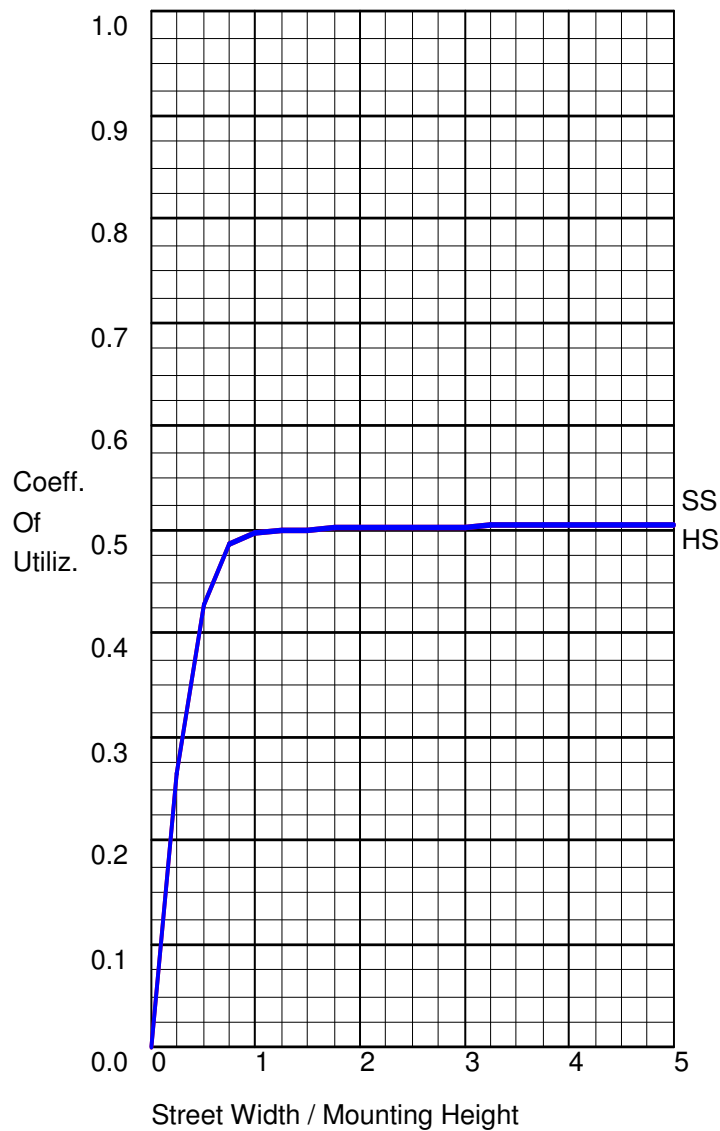
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-950-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

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-L25-950-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

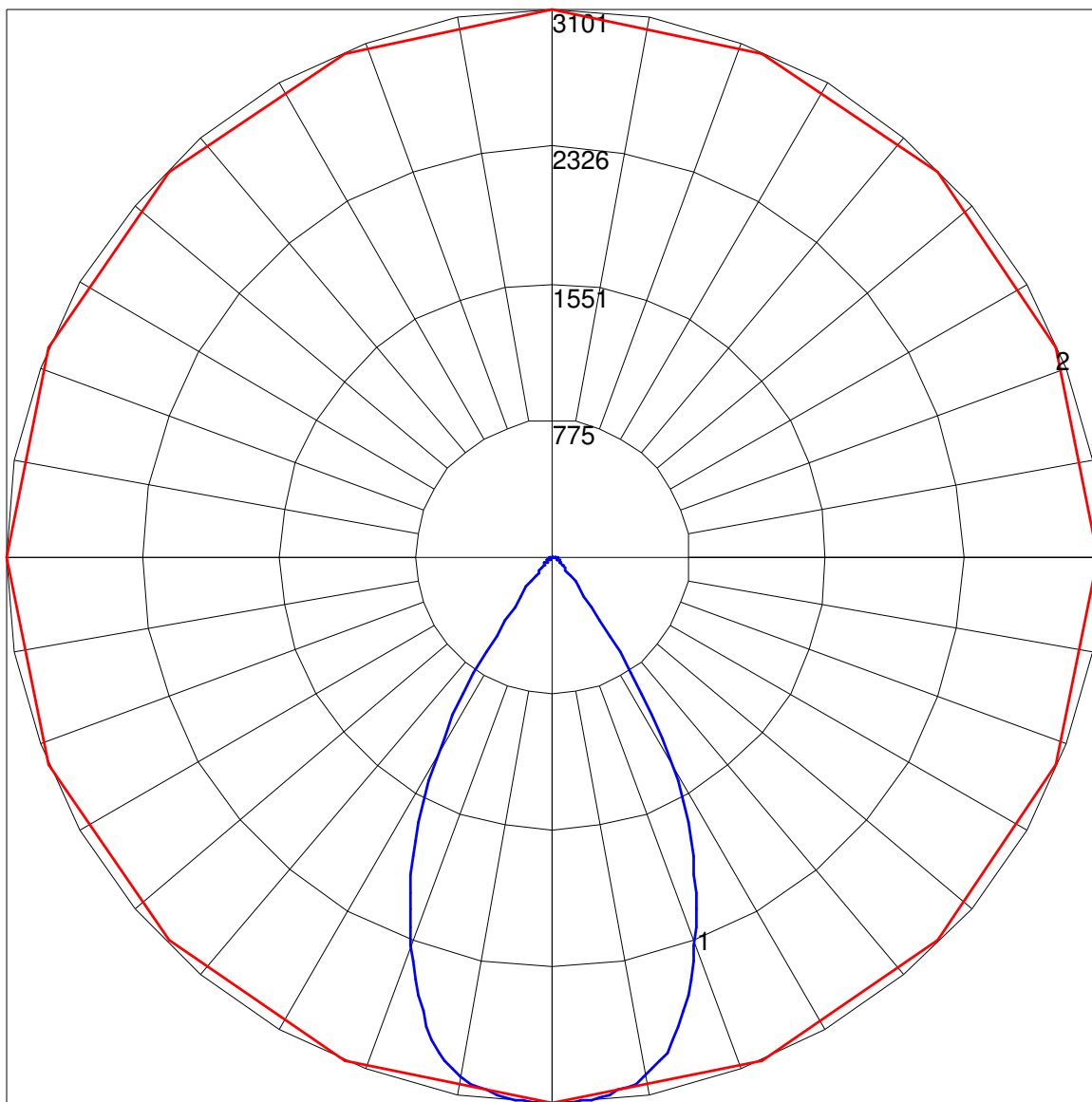
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

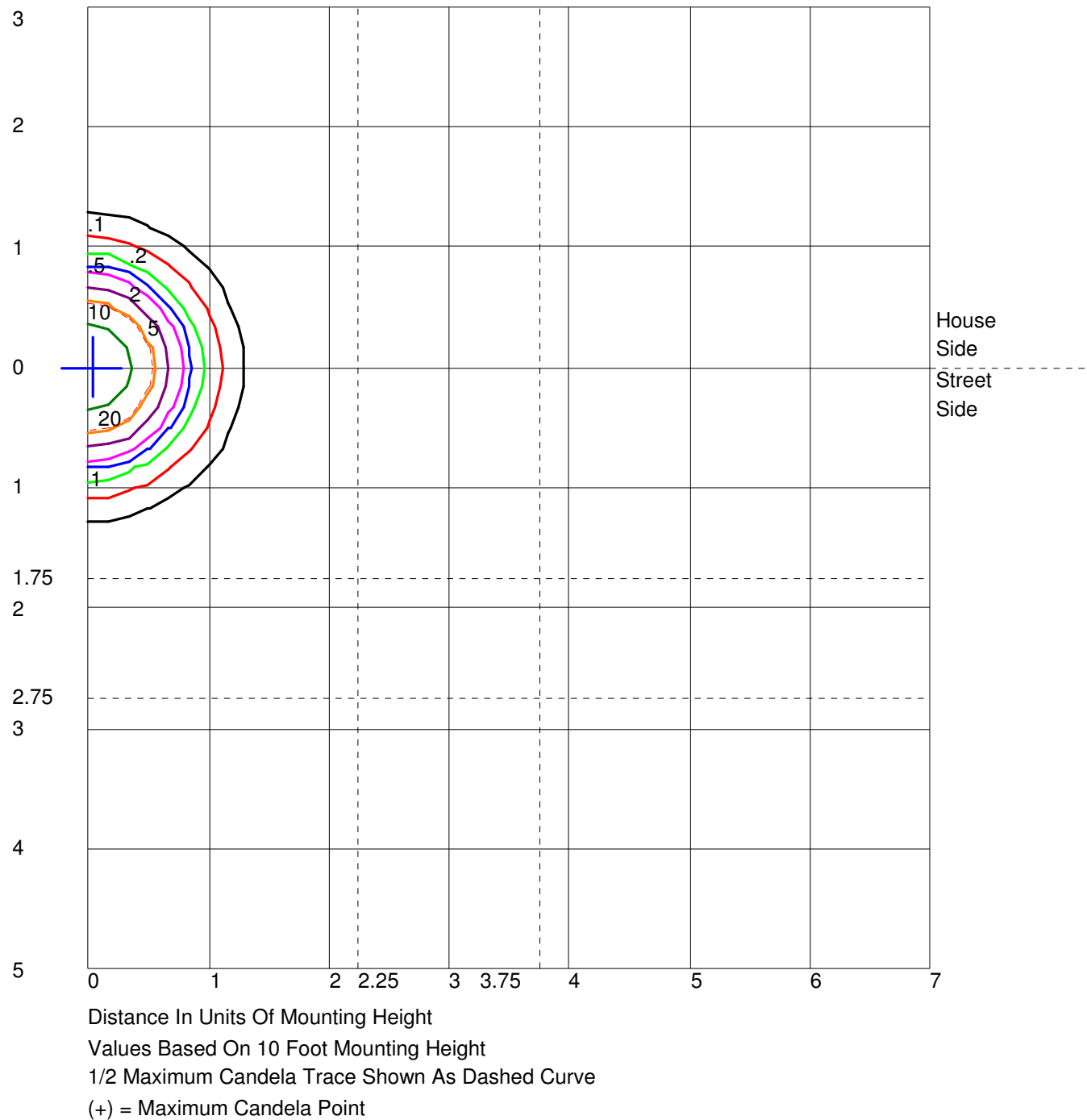
	Lumens	Percent Of Luminaire
Downward Street Side	1230.0	50.0
Downward House Side	1230.0	50.0
Downward Total	2460.0	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2460.4	100.0

POLAR GRAPH

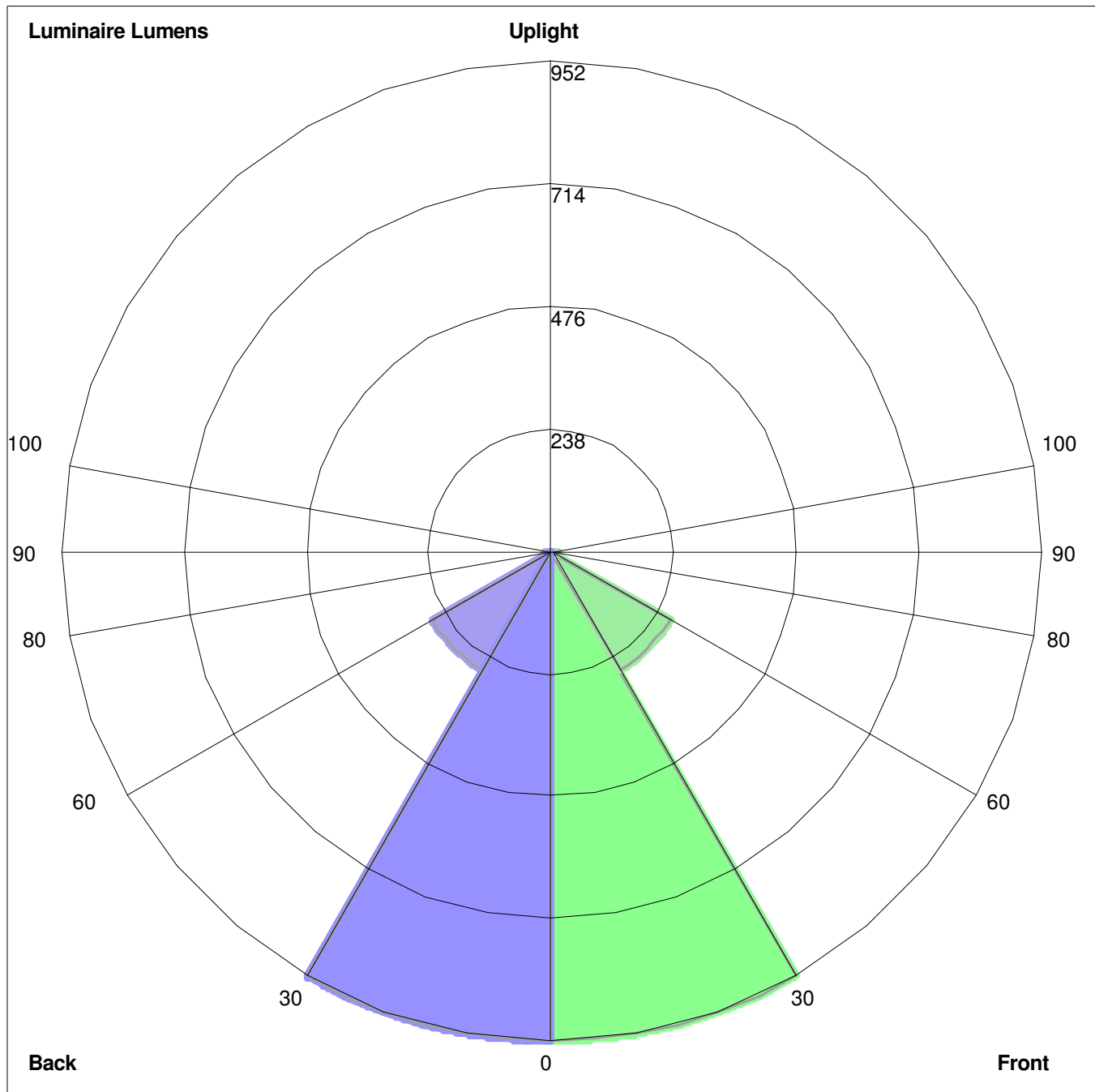


Maximum Candela = 3101.049 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=952.2, Medium=265.8, High=11.4, Very High=0.6
Back: Low=952.2, Medium=265.8, High=11.4, Very High=0.6
Uplight: Low=0.4, High=0.0

BUG Rating : B2-U1-G0