

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-930-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-L25-930-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	2486
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3133.691
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	3133.691
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.39 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.775 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-930-XXX-DIM-UNV-W-XXX_.IES_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	962.2	N.A.	38.7
FM - Front-Medium (30-60)	268.6	N.A.	10.8
FH - Front-High (60-80)	11.5	N.A.	0.5
FVH - Front-Very High (80-90)	0.6	N.A.	0.0
BL - Back-Low (0-30)	962.2	N.A.	38.7
BM - Back-Medium (30-60)	268.6	N.A.	10.8
BH - Back-High (60-80)	11.5	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	2486.2	N.A.	100.0
BUG Rating	B2-U1-G0		

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-930-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	3128.488	3128.488	3128.488	3128.488	3128.488
1	3123.489	3123.340	3123.833	3127.587	3131.154
2	3126.202	3125.273	3122.170	3128.265	3133.691
3	3123.266	3119.345	3122.225	3120.293	3127.001
4	3118.602	3115.452	3114.105	3117.719	3124.056
5	3114.393	3113.129	3110.314	3112.860	3116.650
6	3105.575	3107.220	3099.777	3105.491	3102.314
7	3093.143	3098.291	3092.455	3092.400	3088.888
8	3081.501	3080.442	3078.007	3078.463	3079.252
9	3066.579	3063.011	3060.112	3061.654	3060.483
10	3038.342	3039.243	3037.403	3035.582	3034.477
11	3003.573	3006.258	3002.551	3004.047	3000.321
12	2962.979	2960.293	2959.188	2963.685	2961.919
13	2910.092	2909.237	2911.699	2916.763	2916.456
14	2856.238	2851.778	2853.265	2855.337	2861.135
15	2789.117	2786.812	2783.198	2791.477	2788.355
16	2717.451	2710.724	2707.825	2713.772	2717.897
17	2637.833	2630.102	2630.604	2630.251	2639.552
18	2550.837	2546.850	2547.529	2542.242	2552.360
19	2459.083	2455.720	2455.348	2456.175	2461.954
20	2365.890	2365.509	2363.102	2364.357	2372.133
21	2275.846	2271.878	2270.838	2273.978	2276.543
22	2177.486	2181.528	2178.936	2181.547	2184.659
23	2087.071	2085.612	2085.473	2087.647	2095.052
24	1992.511	1990.728	1992.753	1997.278	1999.889
25	1897.023	1896.438	1898.184	1903.899	1904.837
26	1799.091	1799.565	1803.764	1808.410	1807.936
27	1691.393	1694.134	1703.611	1707.802	1703.602
28	1580.072	1580.667	1593.814	1598.144	1591.761
29	1460.026	1463.482	1475.078	1477.968	1473.694
30	1332.891	1335.697	1348.175	1351.046	1345.248
31	1195.553	1202.067	1210.095	1215.604	1213.384
32	1058.197	1065.491	1070.685	1076.985	1075.154
33	919.336	923.796	931.229	937.278	937.204
34	780.466	788.382	793.539	802.226	805.116
35	651.100	659.677	662.315	670.836	675.769
36	534.706	541.080	543.700	549.610	558.297
37	430.391	435.380	437.945	443.231	452.532
38	346.479	344.909	350.075	355.604	360.547
39	270.391	274.805	276.050	281.495	288.054
40	212.608	217.021	220.171	224.724	230.680
41	167.851	171.446	175.144	183.730	191.377
42	134.745	137.375	143.572	148.181	152.250
43	112.743	113.728	117.788	123.047	126.308
44	93.119	94.950	98.843	104.529	106.378
45	79.777	81.365	84.757	88.975	90.852
46	69.807	71.108	74.044	77.352	78.606
47	62.114	63.331	65.635	68.311	69.407
48	56.306	57.291	59.066	61.296	62.457
49	51.689	52.515	54.011	55.749	56.836
50	47.916	48.613	49.895	51.317	52.200
51	44.729	45.305	46.476	47.656	48.399
52	41.747	42.276	43.270	44.255	44.850

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-930-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

53	39.043	39.489	40.316	41.115	41.598
54	36.553	36.962	37.658	38.272	38.680
55	34.304	34.611	35.252	35.735	36.042
56	32.121	32.418	32.957	33.366	33.552
57	30.058	30.290	30.727	31.089	31.210
58	28.042	28.237	28.599	28.906	29.008
59	26.081	26.230	26.509	26.797	26.890
60	24.149	24.279	24.520	24.743	24.845
61	22.337	22.439	22.625	22.811	22.866
62	20.646	20.701	20.831	20.989	21.036
63	19.048	19.094	19.178	19.298	19.363
64	17.570	17.607	17.663	17.765	17.830
65	16.242	16.279	16.288	16.362	16.465
66	14.996	15.034	15.024	15.089	15.154
67	13.872	13.900	13.872	13.919	13.974
68	12.832	12.841	12.822	12.822	12.887
69	11.856	11.847	11.819	11.800	11.847
70	10.927	10.908	10.852	10.815	10.852
71	10.026	9.988	9.914	9.858	9.877
72	9.134	9.096	9.013	8.929	8.966
73	8.269	8.204	8.093	8.009	8.056
74	7.377	7.303	7.192	7.099	7.154
75	6.420	6.365	6.244	6.179	6.216
76	5.370	5.324	5.194	5.166	5.185
77	4.181	4.163	4.033	4.014	4.033
78	2.825	2.825	2.722	2.667	2.685
79	1.961	1.979	1.933	1.923	1.895
80	1.775	1.765	1.756	1.747	1.738
81	1.654	1.654	1.654	1.645	1.645
82	1.561	1.552	1.561	1.552	1.552
83	1.449	1.449	1.459	1.449	1.449
84	1.338	1.329	1.347	1.329	1.329
85	1.208	1.199	1.208	1.199	1.199
86	1.059	1.059	1.059	1.050	1.050
87	0.892	0.883	0.892	0.883	0.873
88	0.706	0.697	0.706	0.697	0.688
89	0.511	0.502	0.502	0.483	0.483
90	0.390	0.372	0.372	0.344	0.325
91	0.362	0.344	0.353	0.334	0.325
92	0.362	0.344	0.353	0.325	0.325
93	0.362	0.353	0.353	0.334	0.325
94	0.362	0.353	0.353	0.334	0.334
95	0.372	0.353	0.353	0.334	0.334
96	0.372	0.353	0.353	0.334	0.334
97	0.372	0.362	0.362	0.344	0.344
98	0.372	0.362	0.372	0.344	0.353
99	0.381	0.372	0.372	0.353	0.353
100	0.381	0.372	0.381	0.353	0.362
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

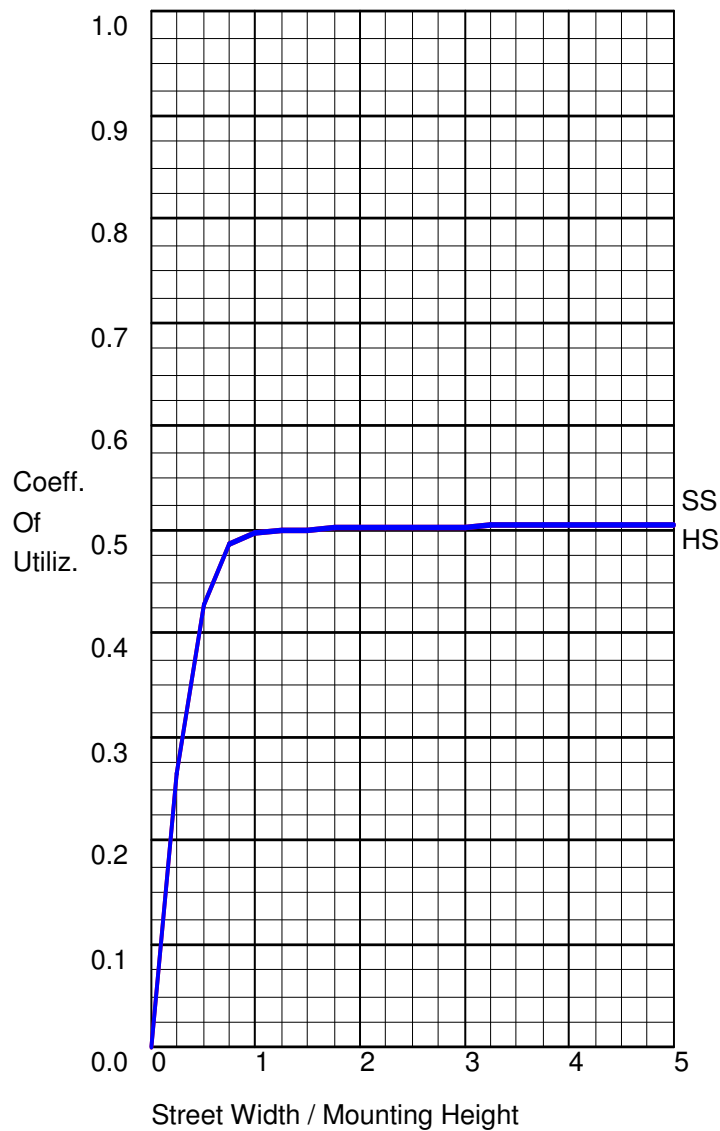
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-930-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

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-L25-930-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

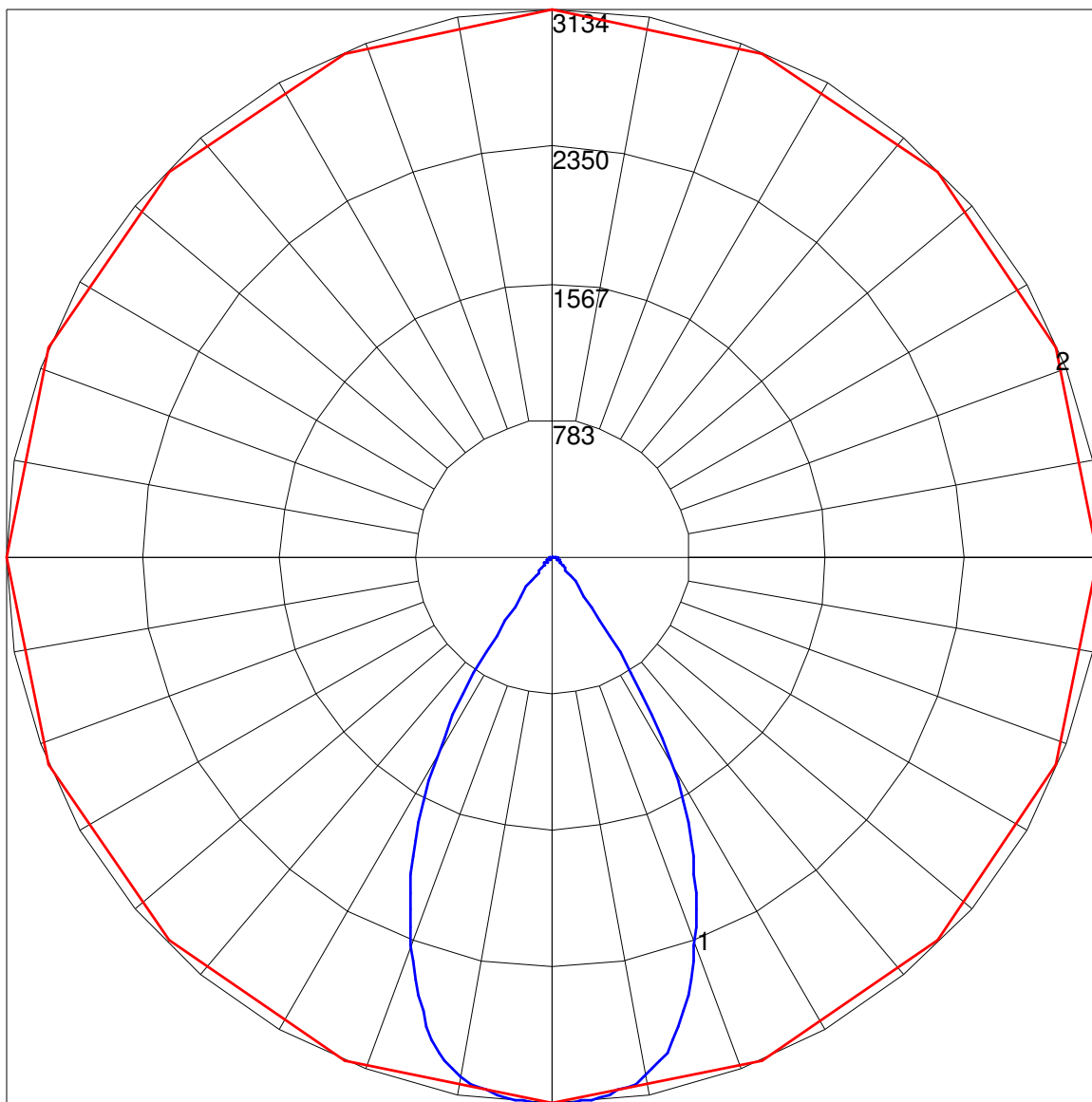
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

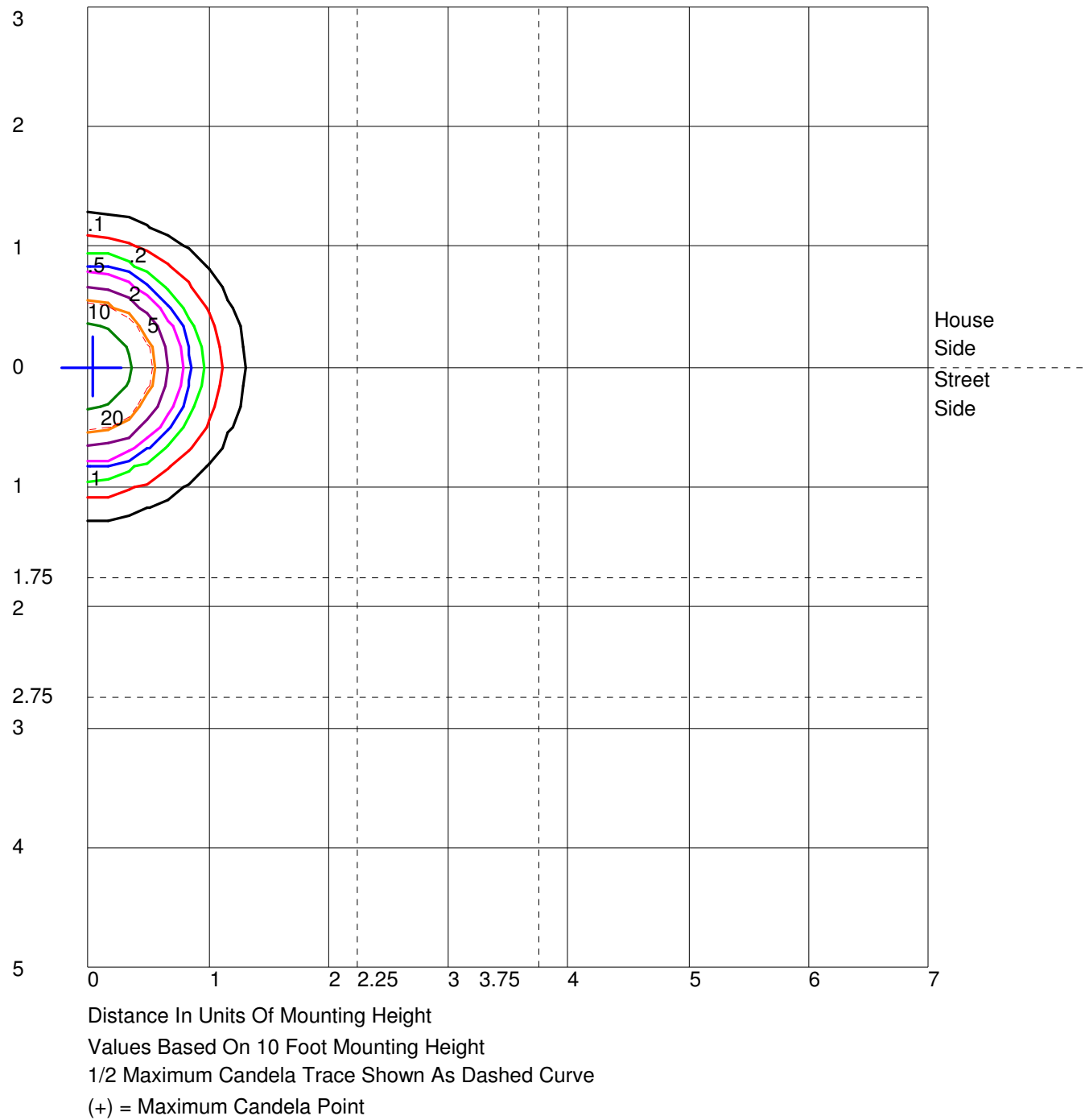
	Lumens	Percent Of Luminaire
Downward Street Side	1242.9	50.0
Downward House Side	1242.9	50.0
Downward Total	2485.8	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2486.2	100.0

POLAR GRAPH

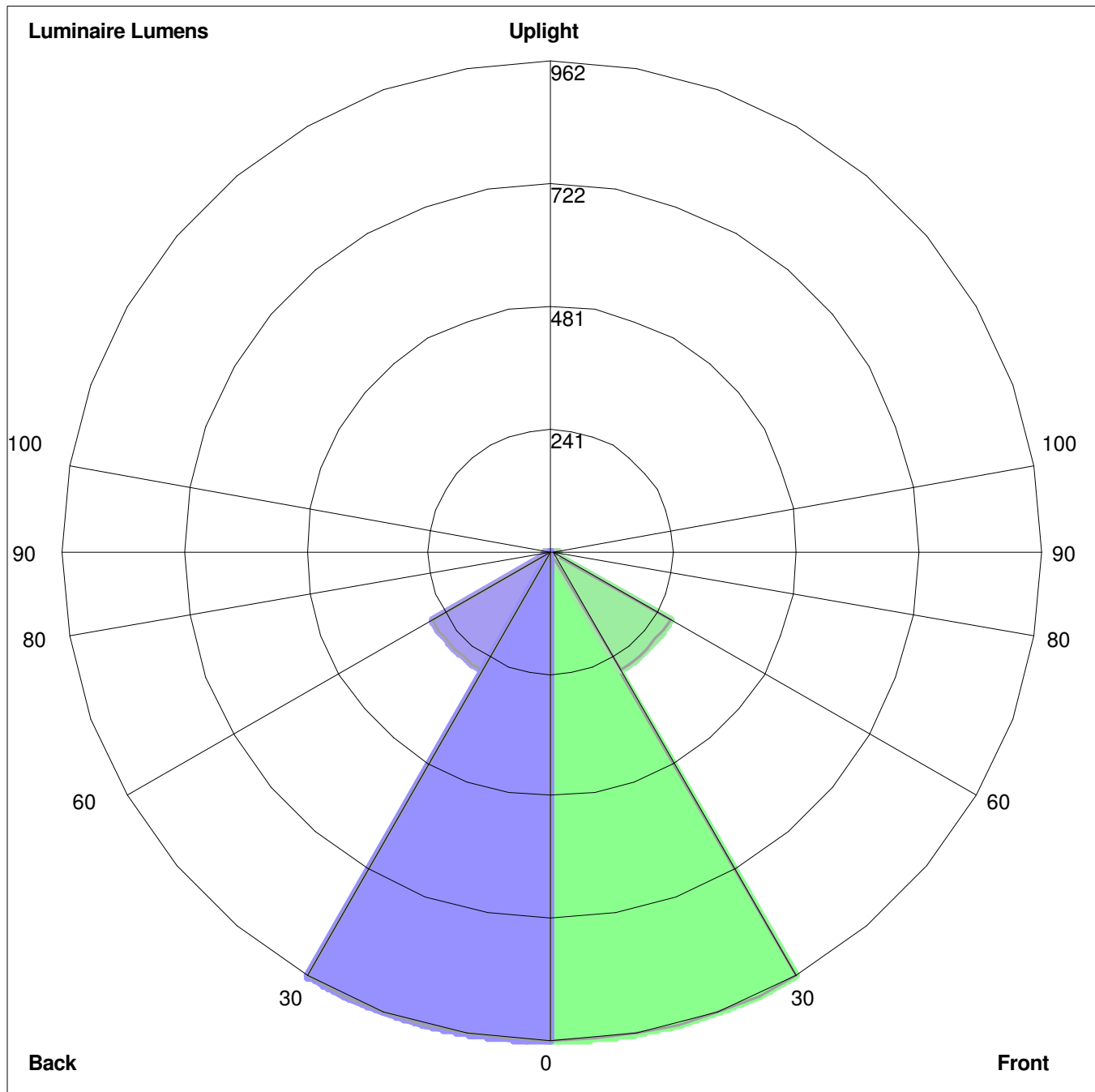


Maximum Candela = 3133.691 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=962.2, Medium=268.6, High=11.5, Very High=0.6
Back: Low=962.2, Medium=268.6, High=11.5, Very High=0.6
Uplight: Low=0.4, High=0.0

BUG Rating : B2-U1-G0