

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-827-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-L25-827-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	2495
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	4747.696
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	4747.696
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.354 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.659 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-827-XXX-DIM-UNV-M-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1037.8	N.A.	41.6
FM - Front-Medium (30-60)	197.8	N.A.	7.9
FH - Front-High (60-80)	11.1	N.A.	0.4
FVH - Front-Very High (80-90)	0.6	N.A.	0.0
BL - Back-Low (0-30)	1037.8	N.A.	41.6
BM - Back-Medium (30-60)	197.8	N.A.	7.9
BH - Back-High (60-80)	11.1	N.A.	0.4
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	2495.0	N.A.	100.0
BUG Rating	B3-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	4747.696	4747.696	4747.696	4747.696	4747.696
1	4740.371	4741.495	4738.340	4737.261	4737.687
2	4720.434	4727.079	4722.065	4720.343	4714.450
3	4685.764	4689.426	4684.204	4685.546	4683.615
4	4637.575	4647.521	4638.500	4638.999	4637.140
5	4588.753	4584.573	4577.538	4575.924	4573.050
6	4512.713	4514.898	4505.659	4500.573	4499.875
7	4429.184	4426.364	4421.985	4412.692	4405.103
8	4323.098	4327.803	4316.624	4307.195	4304.783
9	4202.306	4206.449	4199.849	4192.831	4189.594
10	4066.527	4068.413	4065.339	4062.755	4056.191
11	3919.732	3919.243	3917.366	3912.969	3907.747
12	3757.788	3761.623	3751.142	3753.418	3754.361
13	3588.835	3589.107	3578.744	3589.642	3592.561
14	3408.187	3412.538	3408.712	3418.105	3421.523
15	3222.905	3228.064	3226.795	3239.651	3242.951
16	3041.604	3044.124	3044.142	3058.549	3068.531
17	2863.766	2866.649	2867.882	2879.705	2891.926
18	2681.739	2690.153	2691.948	2703.880	2719.963
19	2515.733	2518.453	2526.268	2537.928	2549.868
20	2350.742	2360.054	2365.938	2377.352	2392.620
21	2198.028	2204.637	2213.495	2224.039	2238.047
22	2053.735	2061.560	2067.562	2081.025	2093.628
23	1917.186	1921.737	1928.628	1943.107	1956.580
24	1788.969	1791.063	1799.703	1813.303	1821.535
25	1664.759	1667.506	1677.225	1689.945	1695.965
26	1543.405	1550.150	1558.854	1570.232	1575.055
27	1424.254	1428.751	1443.375	1454.499	1453.928
28	1304.713	1309.690	1326.445	1333.435	1333.145
29	1184.011	1195.816	1204.456	1211.709	1211.873
30	1060.835	1069.974	1080.419	1087.318	1085.496
31	936.743	943.017	951.313	957.197	955.964
32	813.294	819.034	825.326	830.049	829.088
33	689.964	695.277	700.653	704.434	706.501
34	571.439	578.356	581.511	585.800	588.411
35	463.358	469.695	471.545	474.301	478.689
36	377.852	373.917	376.166	377.254	383.084
37	295.629	291.223	293.136	291.440	299.990
38	221.402	224.902	222.762	224.521	231.466
39	170.086	173.432	170.975	176.804	186.460
40	130.511	132.470	134.410	135.897	141.608
41	105.406	103.738	105.814	109.450	114.509
42	82.976	84.336	88.062	91.544	95.061
43	69.748	71.180	73.928	77.337	80.891
44	61.026	62.168	64.589	67.735	70.501
45	54.870	55.813	58.043	60.527	62.694
46	50.545	51.370	53.292	55.224	56.856
47	47.399	48.143	49.720	51.234	52.585
48	45.006	45.677	46.982	48.215	49.358
49	43.156	43.709	44.788	45.767	46.819
50	41.551	41.978	42.930	43.745	44.670
51	40.028	40.382	41.243	41.932	42.766
52	38.433	38.741	39.448	40.010	40.690

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-827-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	36.737	37.018	37.598	38.025	38.587
54	34.978	35.214	35.704	36.048	36.492
55	33.156	33.374	33.791	34.044	34.407
56	31.243	31.442	31.778	32.032	32.295
57	29.294	29.439	29.702	29.955	30.164
58	27.317	27.444	27.653	27.897	28.106
59	25.350	25.449	25.613	25.848	26.039
60	23.410	23.509	23.645	23.845	24.035
61	21.587	21.687	21.750	21.950	22.113
62	19.892	19.964	20.019	20.173	20.336
63	18.323	18.387	18.414	18.541	18.686
64	16.900	16.945	16.963	17.054	17.208
65	15.631	15.667	15.649	15.730	15.893
66	14.425	14.479	14.434	14.524	14.669
67	13.373	13.409	13.364	13.436	13.563
68	12.403	12.412	12.367	12.421	12.548
69	11.496	11.478	11.442	11.460	11.587
70	10.635	10.590	10.544	10.553	10.653
71	9.792	9.737	9.674	9.656	9.755
72	8.958	8.912	8.822	8.785	8.894
73	8.124	8.069	7.969	7.915	8.042
74	7.262	7.208	7.090	7.036	7.153
75	6.328	6.301	6.165	6.120	6.220
76	5.268	5.249	5.113	5.104	5.177
77	4.089	4.071	3.917	3.908	3.971
78	2.729	2.729	2.593	2.520	2.566
79	1.831	1.859	1.804	1.795	1.786
80	1.659	1.650	1.641	1.623	1.623
81	1.550	1.550	1.541	1.532	1.532
82	1.460	1.451	1.460	1.451	1.451
83	1.360	1.351	1.360	1.351	1.360
84	1.251	1.242	1.251	1.242	1.251
85	1.124	1.124	1.124	1.124	1.124
86	0.979	0.979	0.988	0.979	0.988
87	0.834	0.825	0.834	0.816	0.816
88	0.653	0.653	0.653	0.644	0.653
89	0.471	0.462	0.471	0.453	0.453
90	0.354	0.345	0.345	0.317	0.299
91	0.326	0.326	0.326	0.299	0.299
92	0.326	0.326	0.326	0.299	0.299
93	0.335	0.326	0.326	0.308	0.299
94	0.335	0.326	0.335	0.308	0.308
95	0.335	0.326	0.335	0.308	0.317
96	0.335	0.326	0.335	0.317	0.317
97	0.345	0.326	0.335	0.317	0.317
98	0.345	0.335	0.335	0.317	0.326
99	0.354	0.345	0.345	0.326	0.335
100	0.354	0.354	0.345	0.335	0.335
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

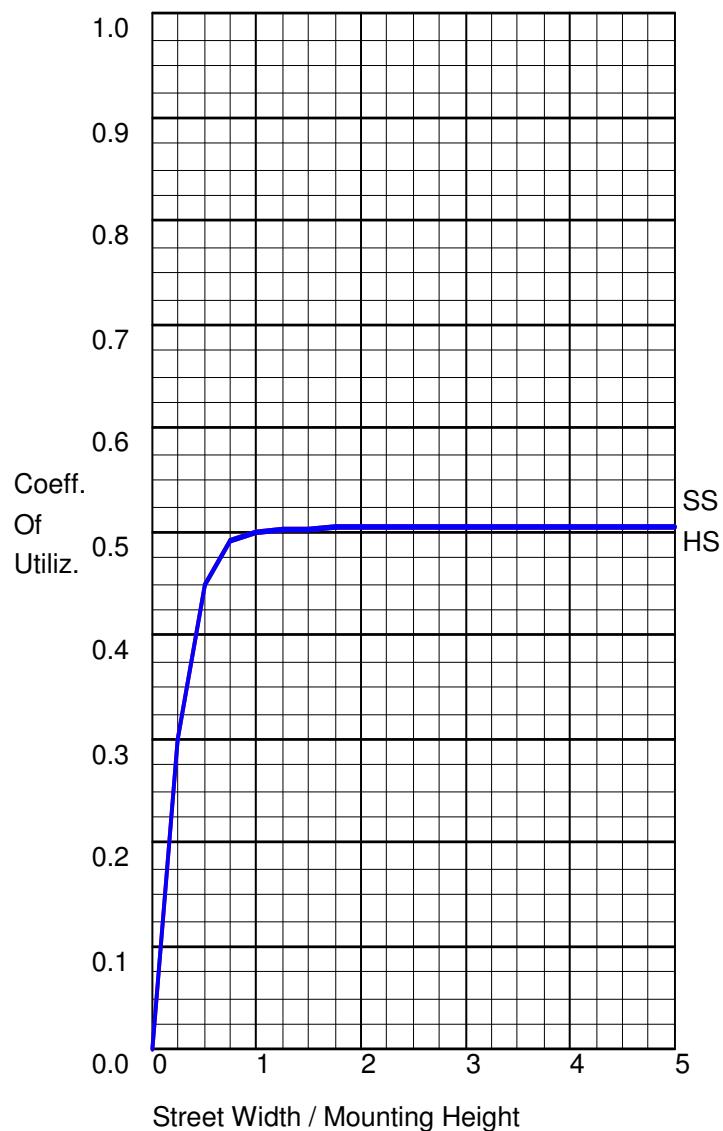
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-827-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L25-827-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

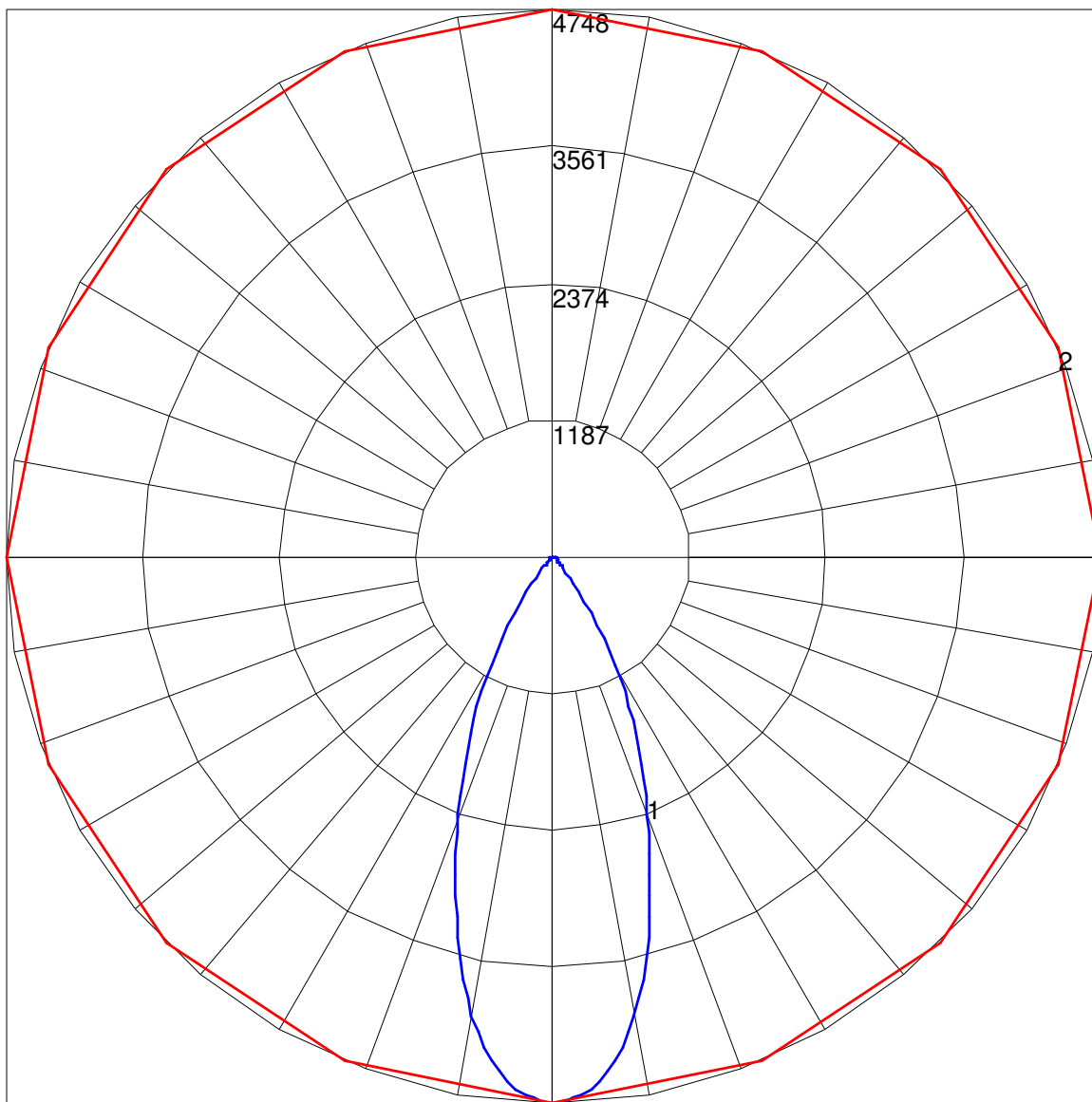
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

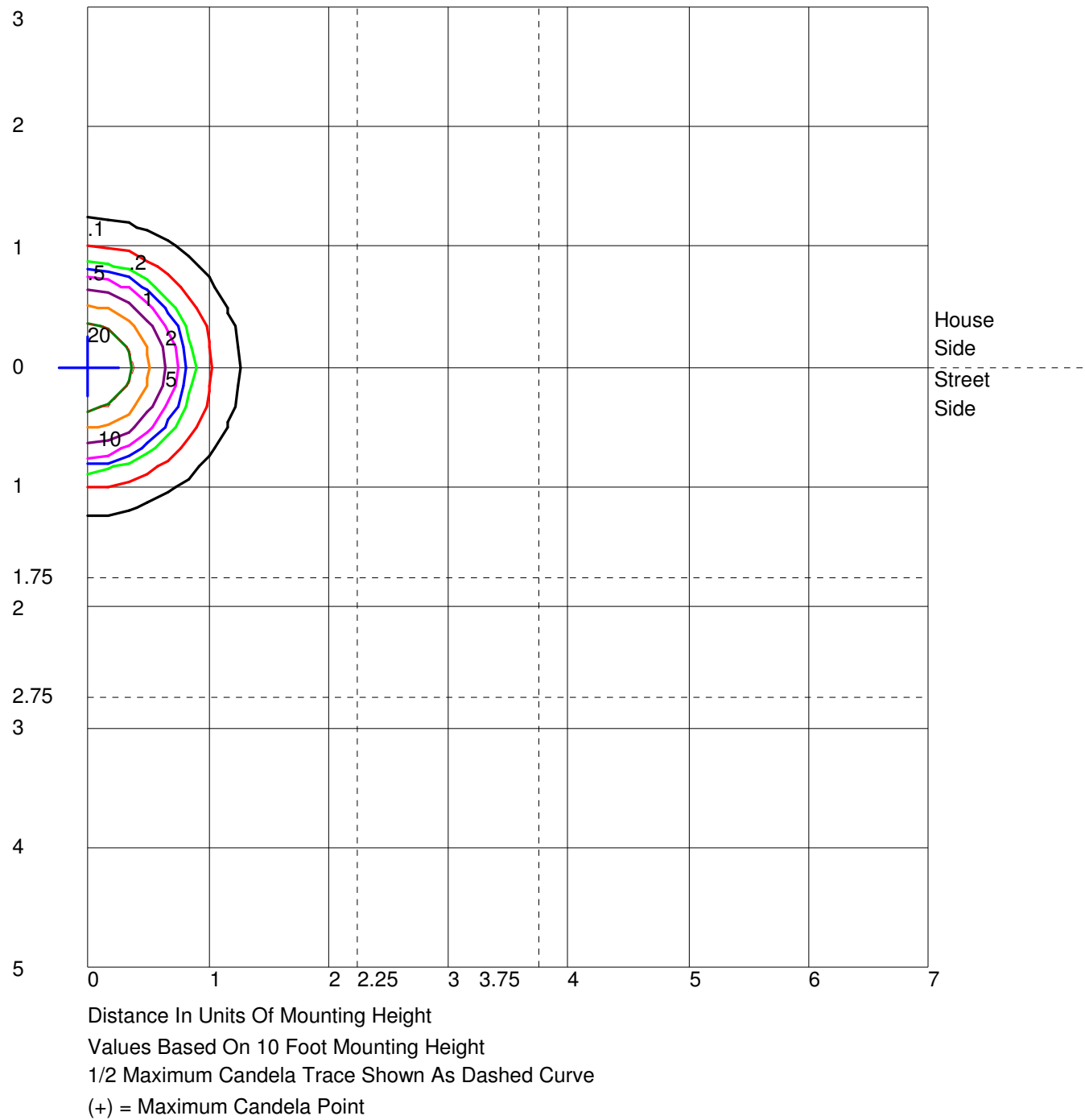
	Lumens	Percent Of Luminaire
Downward Street Side	1247.4	50.0
Downward House Side	1247.4	50.0
Downward Total	2494.8	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2495.2	100.0

POLAR GRAPH

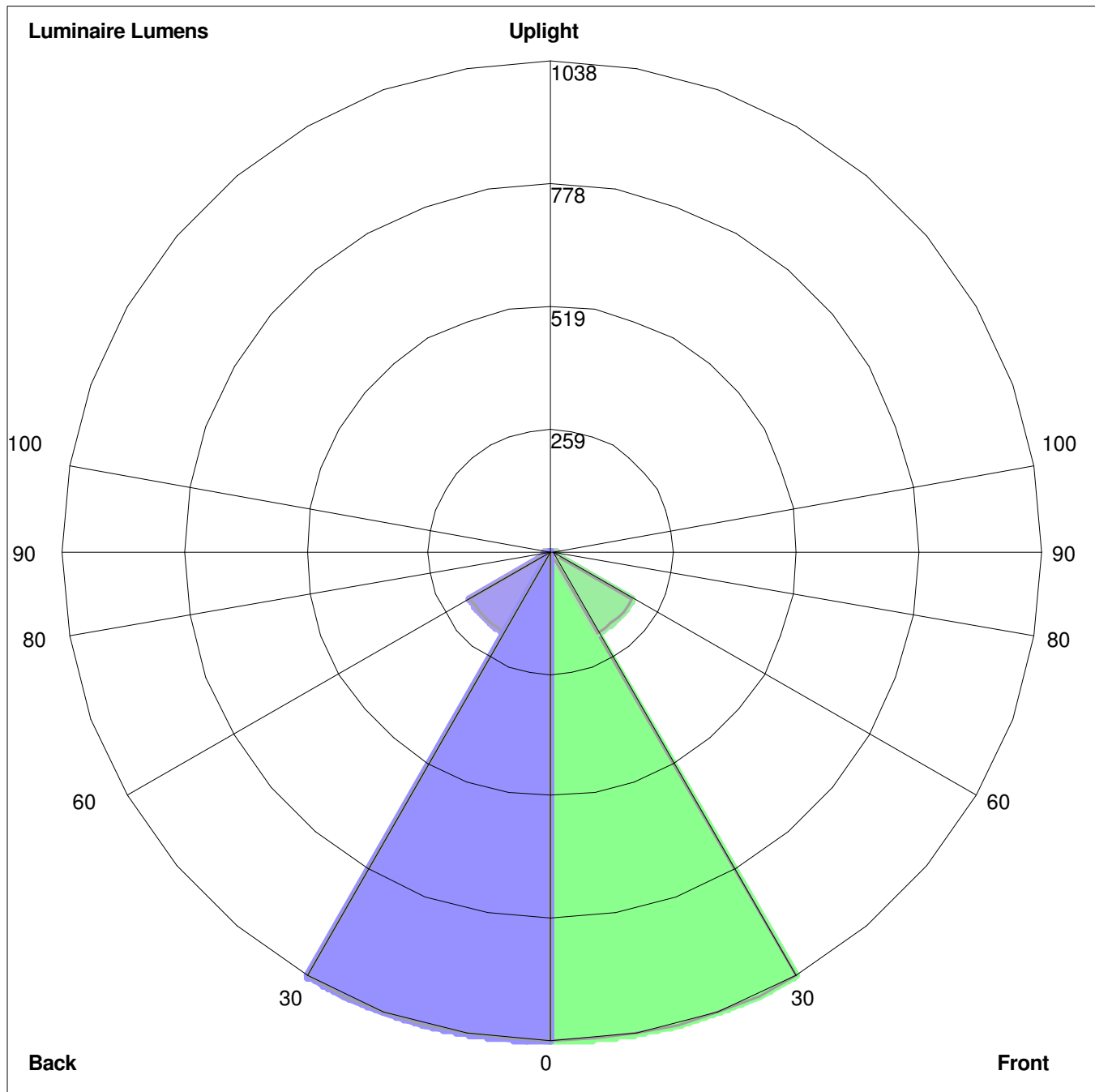


Maximum Candela = 4747.696 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1037.8, Medium=197.8, High=11.1, Very High=0.6
Back: Low=1037.8, Medium=197.8, High=11.1, Very High=0.6
Uplight: Low=0.4, High=0.0

BUG Rating : B3-U1-G0