

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-930-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-L20-930-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	1969
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3746.583
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	3746.583
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.279 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.309 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-930-XXX-DIM-UNV-M-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	819.0	N.A.	41.6
FM - Front-Medium (30-60)	156.1	N.A.	7.9
FH - Front-High (60-80)	8.8	N.A.	0.4
FVH - Front-Very High (80-90)	0.5	N.A.	0.0
BL - Back-Low (0-30)	819.0	N.A.	41.6
BM - Back-Medium (30-60)	156.1	N.A.	7.9
BH - Back-High (60-80)	8.8	N.A.	0.4
BVH - Back-Very High (80-90)	0.5	N.A.	0.0
UL - Uplight-Low (90-100)	0.3	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	1969.1	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	3746.583	3746.583	3746.583	3746.583	3746.583
1	3740.802	3741.689	3739.200	3738.348	3738.684
2	3725.069	3730.314	3726.357	3724.998	3720.347
3	3697.710	3700.600	3696.479	3697.538	3696.014
4	3659.683	3667.531	3660.413	3660.806	3659.339
5	3621.155	3617.857	3612.305	3611.031	3608.763
6	3561.149	3562.873	3555.583	3551.569	3551.018
7	3495.233	3493.008	3489.552	3482.219	3476.230
8	3411.517	3415.230	3406.408	3398.967	3397.064
9	3316.195	3319.465	3314.256	3308.719	3306.164
10	3209.047	3210.535	3208.110	3206.071	3200.891
11	3093.206	3092.820	3091.339	3087.869	3083.748
12	2965.410	2968.436	2960.165	2961.961	2962.705
13	2832.083	2832.297	2824.120	2832.720	2835.023
14	2689.526	2692.961	2689.941	2697.354	2700.051
15	2543.314	2547.385	2546.383	2556.529	2559.133
16	2400.242	2402.231	2402.246	2413.614	2421.492
17	2259.904	2262.179	2263.152	2272.482	2282.126
18	2116.260	2122.900	2124.316	2133.732	2146.424
19	1985.258	1987.405	1993.572	2002.773	2012.196
20	1855.058	1862.406	1867.049	1876.057	1888.105
21	1734.545	1739.761	1746.751	1755.072	1766.126
22	1620.679	1626.853	1631.590	1642.214	1652.159
23	1512.923	1516.514	1521.952	1533.378	1544.010
24	1411.741	1413.394	1420.213	1430.945	1437.441
25	1313.723	1315.891	1323.560	1333.598	1338.349
26	1217.958	1223.281	1230.149	1239.128	1242.935
27	1123.931	1127.480	1139.020	1147.799	1147.348
28	1029.597	1033.525	1046.747	1052.263	1052.034
29	934.347	943.663	950.481	956.205	956.334
30	837.144	844.356	852.598	858.043	856.605
31	739.219	744.170	750.716	755.359	754.386
32	641.801	646.330	651.295	655.023	654.264
33	544.476	548.669	552.911	555.895	557.526
34	450.943	456.402	458.892	462.276	464.337
35	365.653	370.654	372.113	374.288	377.751
36	298.177	295.072	296.846	297.705	302.305
37	233.292	229.815	231.324	229.986	236.733
38	174.717	177.478	175.790	177.178	182.658
39	134.221	136.861	134.922	139.523	147.143
40	102.991	104.537	106.068	107.241	111.748
41	83.180	81.864	83.502	86.371	90.363
42	65.479	66.553	69.493	72.241	75.017
43	55.041	56.171	58.339	61.029	63.834
44	48.158	49.059	50.970	53.452	55.635
45	43.300	44.044	45.804	47.764	49.474
46	39.887	40.538	42.055	43.579	44.867
47	37.405	37.991	39.236	40.431	41.497
48	35.516	36.045	37.075	38.048	38.950
49	34.056	34.493	35.344	36.117	36.947
50	32.790	33.126	33.877	34.521	35.251
51	31.588	31.867	32.547	33.090	33.748
52	30.329	30.572	31.130	31.573	32.110

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-930-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	28.991	29.212	29.670	30.007	30.450
54	27.603	27.789	28.175	28.447	28.797
55	26.165	26.336	26.665	26.866	27.152
56	24.655	24.812	25.077	25.277	25.485
57	23.117	23.231	23.439	23.639	23.804
58	21.557	21.657	21.822	22.015	22.179
59	20.004	20.083	20.212	20.398	20.548
60	18.473	18.552	18.659	18.817	18.967
61	17.035	17.114	17.164	17.321	17.450
62	15.697	15.755	15.797	15.919	16.048
63	14.460	14.510	14.531	14.631	14.746
64	13.336	13.372	13.386	13.458	13.580
65	12.335	12.363	12.349	12.413	12.542
66	11.383	11.426	11.390	11.462	11.576
67	10.553	10.582	10.546	10.603	10.703
68	9.788	9.795	9.759	9.802	9.902
69	9.072	9.058	9.029	9.043	9.144
70	8.392	8.357	8.321	8.328	8.407
71	7.727	7.684	7.634	7.620	7.698
72	7.069	7.033	6.961	6.933	7.019
73	6.411	6.368	6.289	6.246	6.346
74	5.731	5.688	5.595	5.552	5.645
75	4.994	4.972	4.865	4.829	4.908
76	4.157	4.143	4.035	4.028	4.085
77	3.227	3.212	3.091	3.084	3.134
78	2.154	2.154	2.046	1.989	2.025
79	1.445	1.467	1.424	1.417	1.409
80	1.309	1.302	1.295	1.281	1.281
81	1.223	1.223	1.216	1.209	1.209
82	1.152	1.145	1.152	1.145	1.145
83	1.073	1.066	1.073	1.066	1.073
84	0.987	0.980	0.987	0.980	0.987
85	0.887	0.887	0.887	0.887	0.887
86	0.773	0.773	0.780	0.773	0.780
87	0.658	0.651	0.658	0.644	0.644
88	0.515	0.515	0.515	0.508	0.515
89	0.372	0.365	0.372	0.358	0.358
90	0.279	0.272	0.272	0.250	0.236
91	0.258	0.258	0.258	0.236	0.236
92	0.258	0.258	0.258	0.236	0.236
93	0.265	0.258	0.258	0.243	0.236
94	0.265	0.258	0.265	0.243	0.243
95	0.265	0.258	0.265	0.243	0.250
96	0.265	0.258	0.265	0.250	0.250
97	0.272	0.258	0.265	0.250	0.250
98	0.272	0.265	0.265	0.250	0.258
99	0.279	0.272	0.272	0.258	0.265
100	0.279	0.279	0.272	0.265	0.265
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

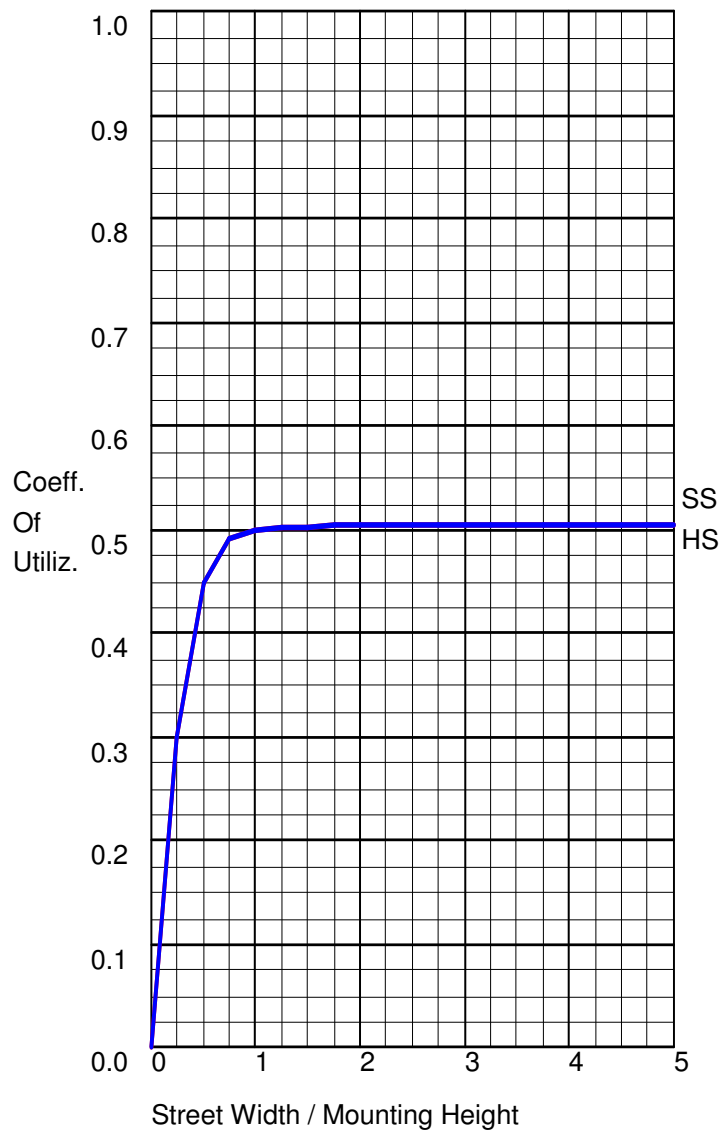
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-930-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L20-930-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

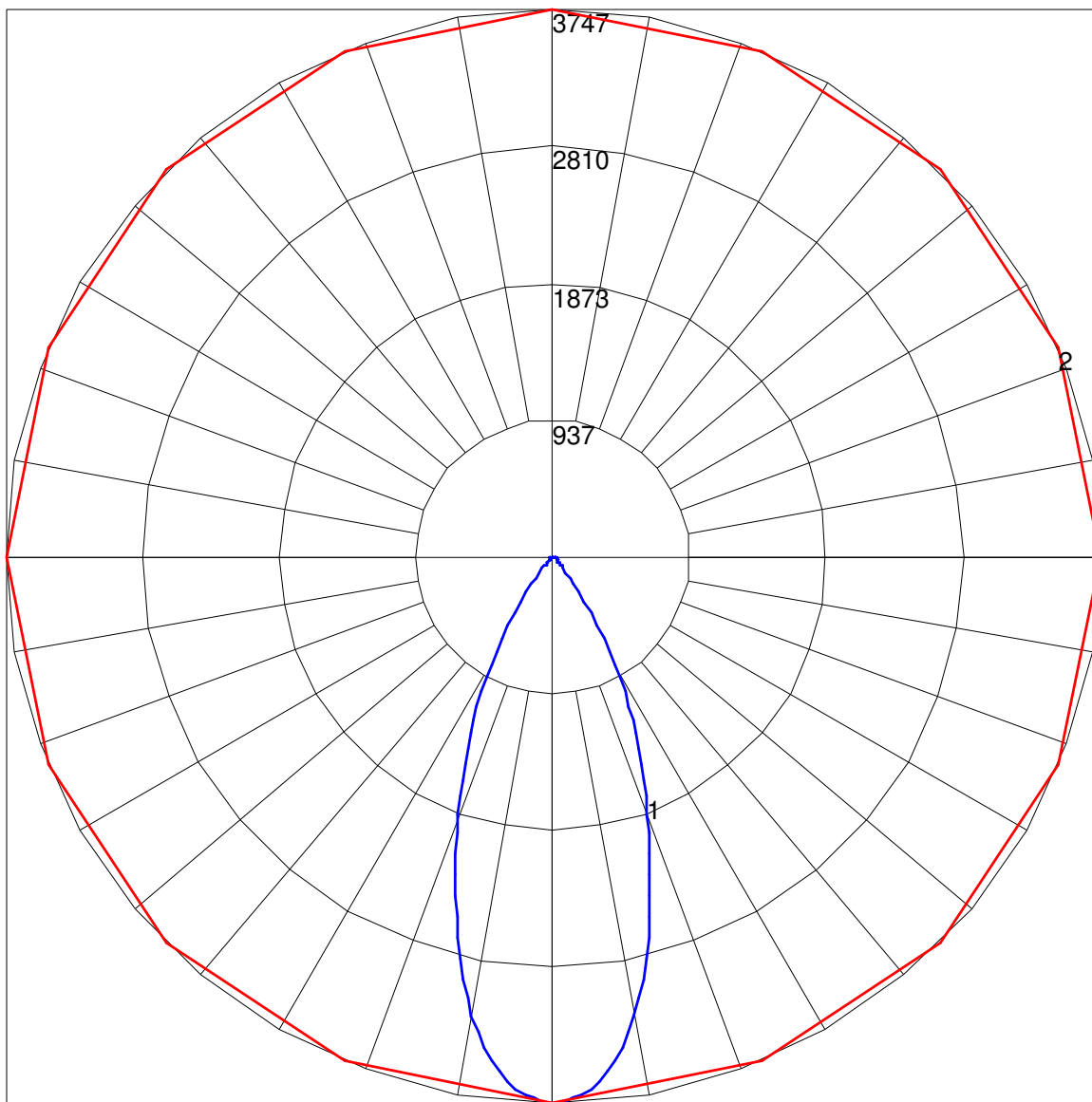
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

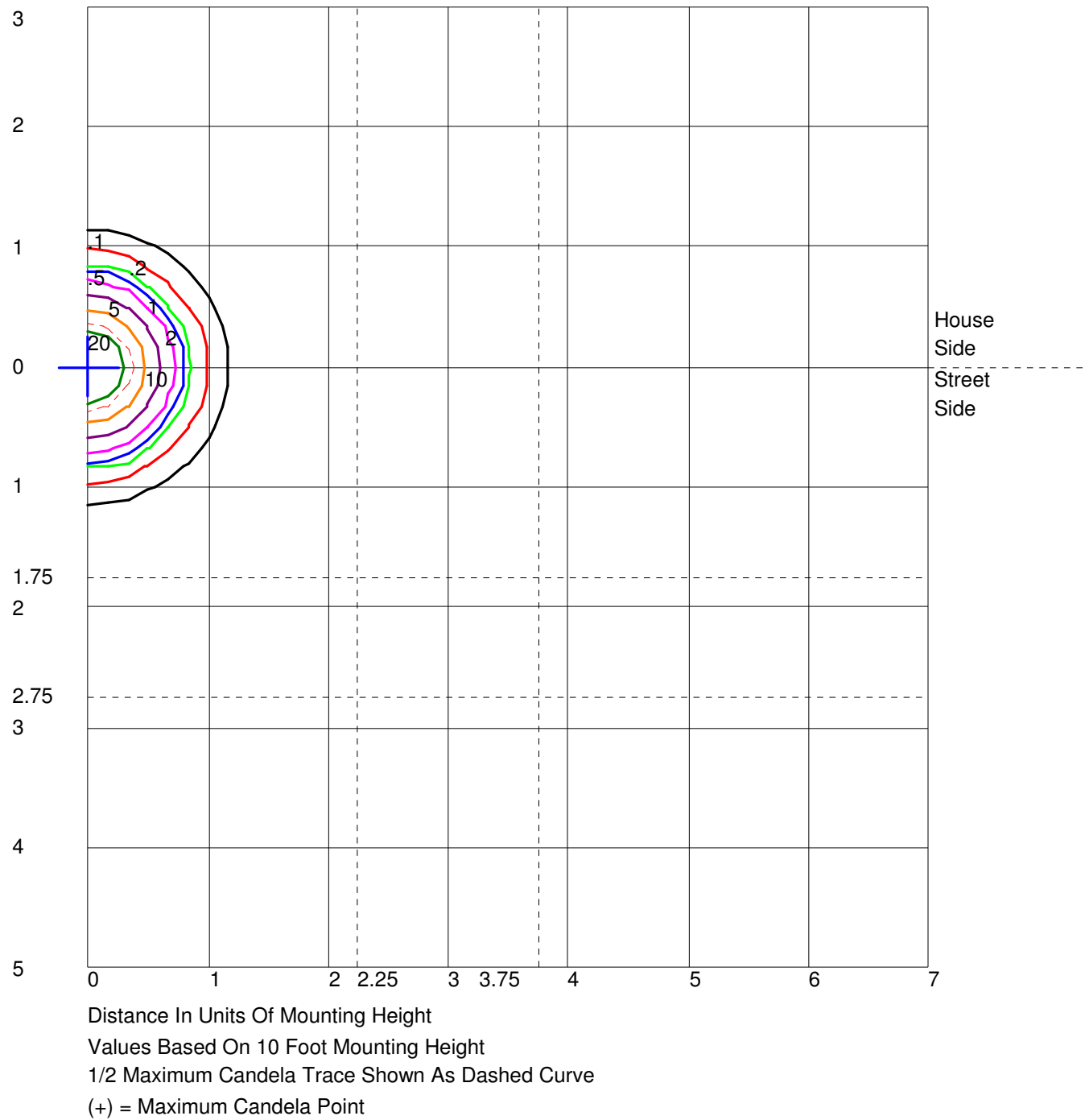
	Lumens	Percent Of Luminaire
Downward Street Side	984.4	50.0
Downward House Side	984.4	50.0
Downward Total	1968.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1969.0	100.0

POLAR GRAPH

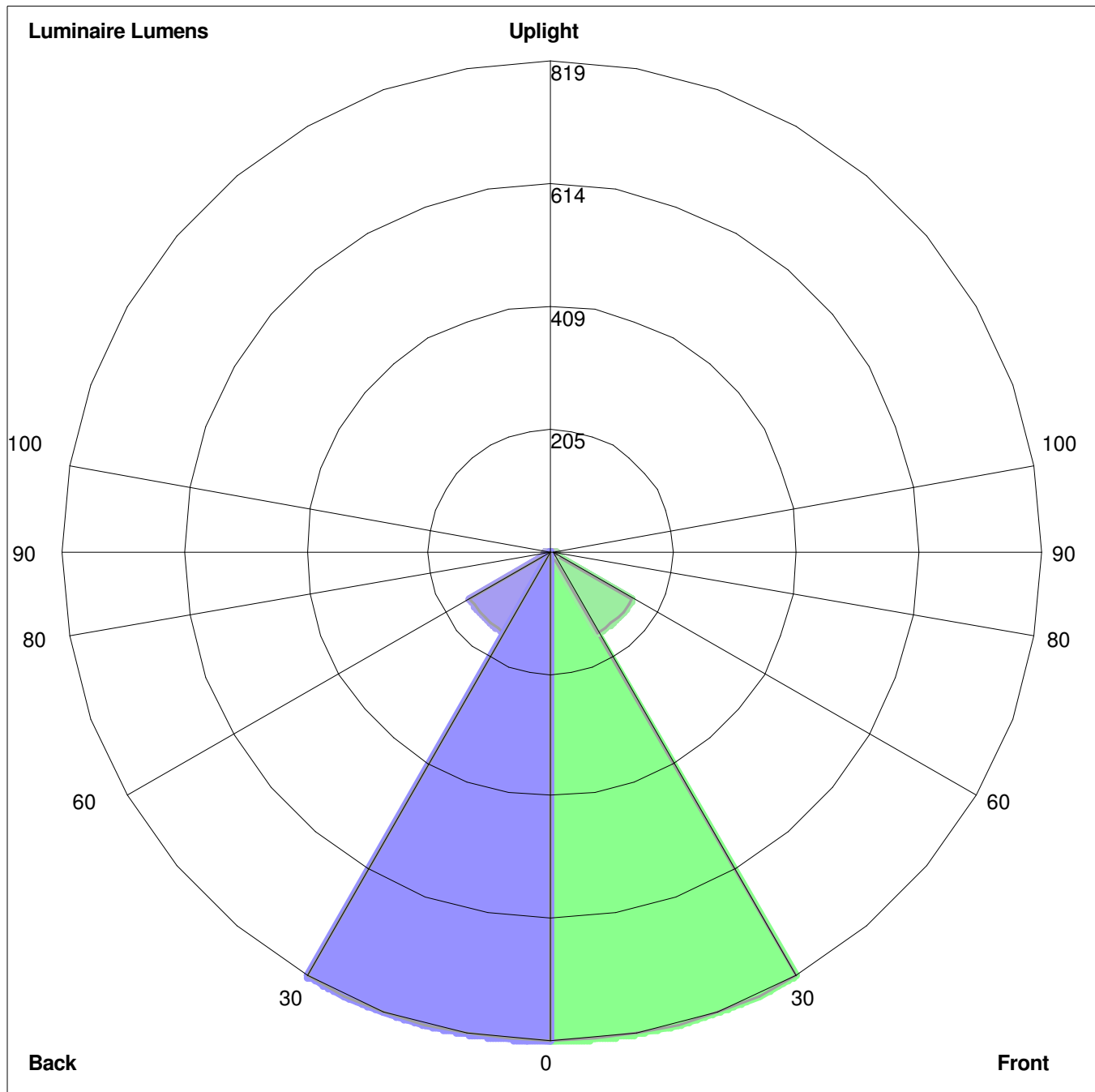


Maximum Candela = 3746.583 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=819.0, Medium=156.1, High=8.8, Very High=0.5
Back: Low=819.0, Medium=156.1, High=8.8, Very High=0.5
Uplight: Low=0.3, High=0.0

BUG Rating : B2-U1-G0