

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-835-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-L25-835-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	2546
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4844.588
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	4844.588
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.361 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.693 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-835-XXX-DIM-UNV-M-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1059.0	N.A.	41.6
FM - Front-Medium (30-60)	201.9	N.A.	7.9
FH - Front-High (60-80)	11.4	N.A.	0.4
FVH - Front-Very High (80-90)	0.6	N.A.	0.0
BL - Back-Low (0-30)	1059.0	N.A.	41.6
BM - Back-Medium (30-60)	201.9	N.A.	7.9
BH - Back-High (60-80)	11.4	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	2546.2	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	4844.588	4844.588	4844.588	4844.588	4844.588
1	4837.113	4838.260	4835.041	4833.940	4834.375
2	4816.769	4823.550	4818.434	4816.677	4810.663
3	4781.392	4785.129	4779.800	4781.170	4779.199
4	4732.220	4742.369	4733.164	4733.673	4731.776
5	4682.401	4678.136	4670.957	4669.310	4666.378
6	4604.809	4607.039	4597.611	4592.421	4591.709
7	4519.575	4516.698	4512.230	4502.747	4495.004
8	4411.324	4416.126	4404.719	4395.097	4392.636
9	4288.067	4292.295	4285.560	4278.399	4275.097
10	4149.517	4151.442	4148.305	4145.669	4138.971
11	3999.727	3999.227	3997.312	3992.825	3987.497
12	3834.478	3838.391	3827.696	3830.018	3830.981
13	3662.077	3662.354	3651.780	3662.900	3665.879
14	3477.742	3482.182	3478.278	3487.863	3491.350
15	3288.679	3293.943	3292.648	3305.766	3309.134
16	3103.678	3106.249	3106.268	3120.969	3131.154
17	2922.210	2925.152	2926.410	2938.474	2950.945
18	2736.469	2745.054	2746.886	2759.061	2775.473
19	2567.075	2569.850	2577.825	2589.722	2601.906
20	2398.717	2408.218	2414.222	2425.870	2441.449
21	2242.885	2249.630	2258.668	2269.428	2283.721
22	2095.648	2103.632	2109.757	2123.495	2136.355
23	1956.312	1960.957	1967.988	1982.762	1996.510
24	1825.478	1827.615	1836.432	1850.309	1858.709
25	1698.733	1701.537	1711.454	1724.434	1730.577
26	1574.903	1581.786	1590.667	1602.278	1607.199
27	1453.320	1457.909	1472.831	1484.183	1483.600
28	1331.340	1336.419	1353.515	1360.648	1360.352
29	1208.175	1220.220	1229.037	1236.438	1236.605
30	1082.485	1091.810	1102.468	1109.508	1107.649
31	955.860	962.262	970.727	976.731	975.473
32	829.892	835.749	842.169	846.989	846.008
33	704.045	709.466	714.952	718.810	720.919
34	583.101	590.159	593.379	597.755	600.419
35	472.814	479.281	481.168	483.981	488.458
36	385.564	381.548	383.843	384.953	390.902
37	301.662	297.166	299.118	297.388	306.112
38	225.920	229.492	227.308	229.103	236.190
39	173.557	176.971	174.464	180.413	190.265
40	133.175	135.173	137.153	138.670	144.498
41	107.557	105.855	107.974	111.684	116.846
42	84.669	86.057	89.859	93.412	97.001
43	71.171	72.633	75.436	78.915	82.541
44	62.272	63.437	65.907	69.118	71.939
45	55.990	56.952	59.228	61.763	63.974
46	51.577	52.419	54.380	56.351	58.016
47	48.367	49.125	50.735	52.280	53.658
48	45.924	46.609	47.941	49.199	50.365
49	44.037	44.601	45.702	46.701	47.775
50	42.399	42.834	43.806	44.638	45.582
51	40.845	41.206	42.085	42.788	43.639
52	39.217	39.531	40.253	40.827	41.521

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-835-XXX-DIM-UNV-M-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	37.487	37.774	38.366	38.801	39.374
54	35.692	35.933	36.432	36.784	37.237
55	33.833	34.055	34.480	34.739	35.109
56	31.881	32.084	32.426	32.685	32.954
57	29.891	30.039	30.308	30.567	30.780
58	27.875	28.004	28.217	28.467	28.680
59	25.867	25.969	26.135	26.376	26.570
60	23.887	23.989	24.128	24.331	24.526
61	22.028	22.129	22.194	22.398	22.564
62	20.298	20.372	20.427	20.584	20.751
63	18.697	18.762	18.790	18.919	19.067
64	17.245	17.291	17.309	17.402	17.559
65	15.950	15.987	15.968	16.051	16.218
66	14.719	14.775	14.728	14.821	14.969
67	13.646	13.683	13.637	13.711	13.840
68	12.656	12.665	12.619	12.674	12.804
69	11.731	11.712	11.675	11.694	11.823
70	10.852	10.806	10.759	10.769	10.870
71	9.992	9.936	9.871	9.853	9.955
72	9.140	9.094	9.002	8.965	9.076
73	8.289	8.234	8.132	8.077	8.206
74	7.410	7.355	7.235	7.179	7.299
75	6.458	6.430	6.291	6.245	6.346
76	5.375	5.357	5.218	5.209	5.283
77	4.172	4.154	3.997	3.987	4.052
78	2.785	2.785	2.646	2.572	2.618
79	1.869	1.897	1.841	1.832	1.823
80	1.693	1.684	1.675	1.656	1.656
81	1.582	1.582	1.573	1.563	1.563
82	1.489	1.480	1.489	1.480	1.480
83	1.388	1.378	1.388	1.378	1.388
84	1.277	1.267	1.277	1.267	1.277
85	1.147	1.147	1.147	1.147	1.147
86	0.999	0.999	1.008	0.999	1.008
87	0.851	0.842	0.851	0.833	0.833
88	0.666	0.666	0.666	0.657	0.666
89	0.481	0.472	0.481	0.463	0.463
90	0.361	0.352	0.352	0.324	0.305
91	0.333	0.333	0.333	0.305	0.305
92	0.333	0.333	0.333	0.305	0.305
93	0.342	0.333	0.333	0.315	0.305
94	0.342	0.333	0.342	0.315	0.315
95	0.342	0.333	0.342	0.315	0.324
96	0.342	0.333	0.342	0.324	0.324
97	0.352	0.333	0.342	0.324	0.324
98	0.352	0.342	0.342	0.324	0.333
99	0.361	0.352	0.352	0.333	0.342
100	0.361	0.361	0.352	0.342	0.342
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

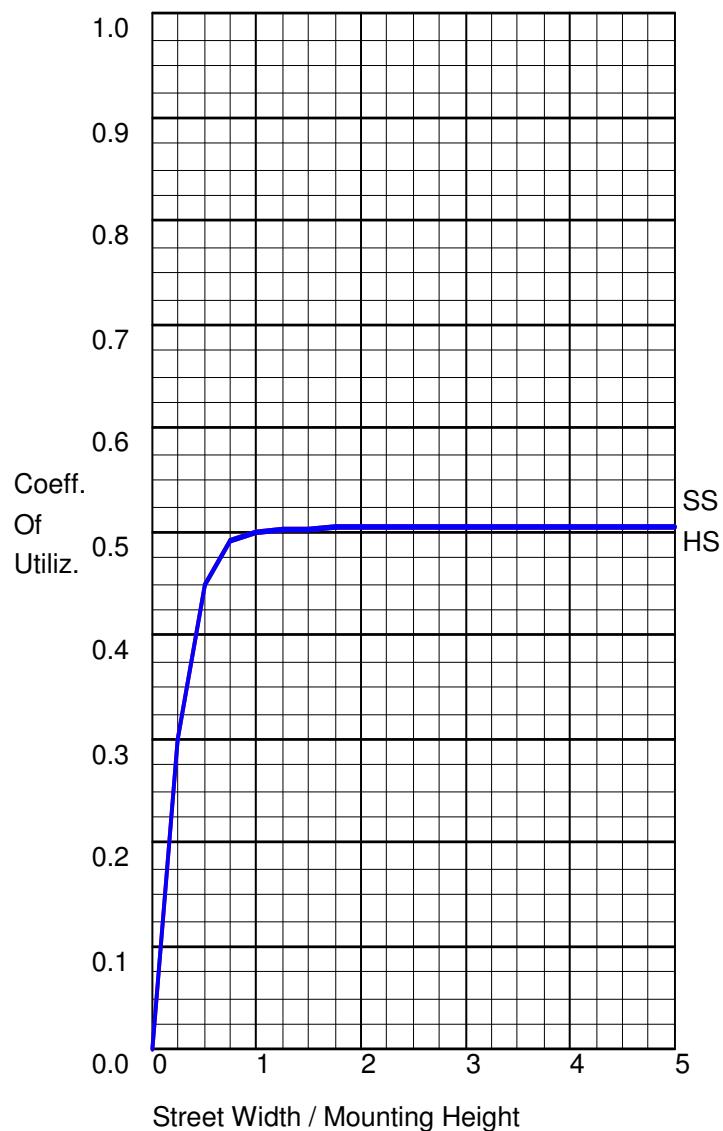
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-835-XXX-DIM-UNV-M-XXX\_.IES****CANDELA TABULATION - (Cont.)**

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-L25-835-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

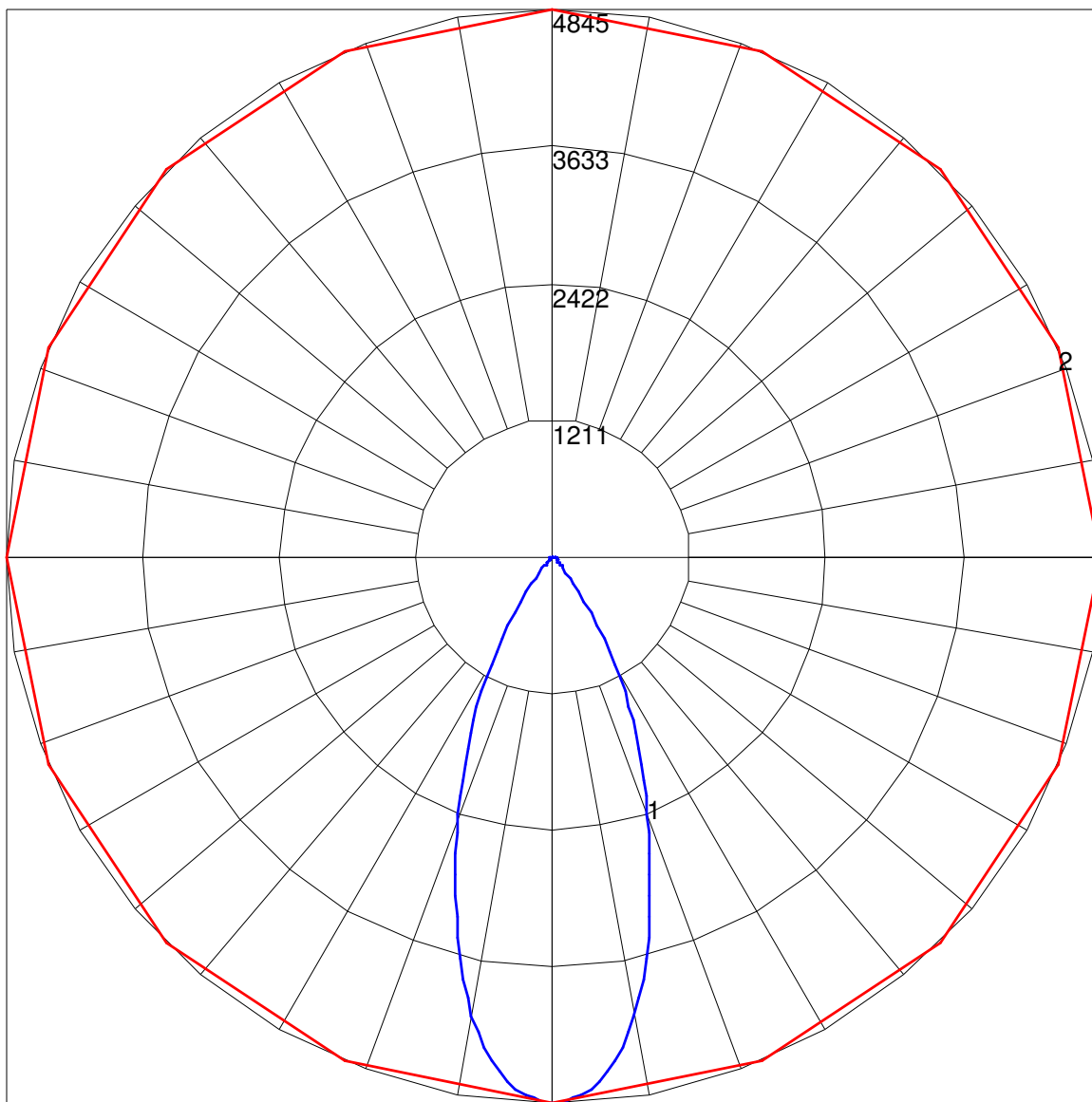
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1272.8	50.0
Downward House Side	1272.8	50.0
Downward Total	2545.6	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2546.0	100.0

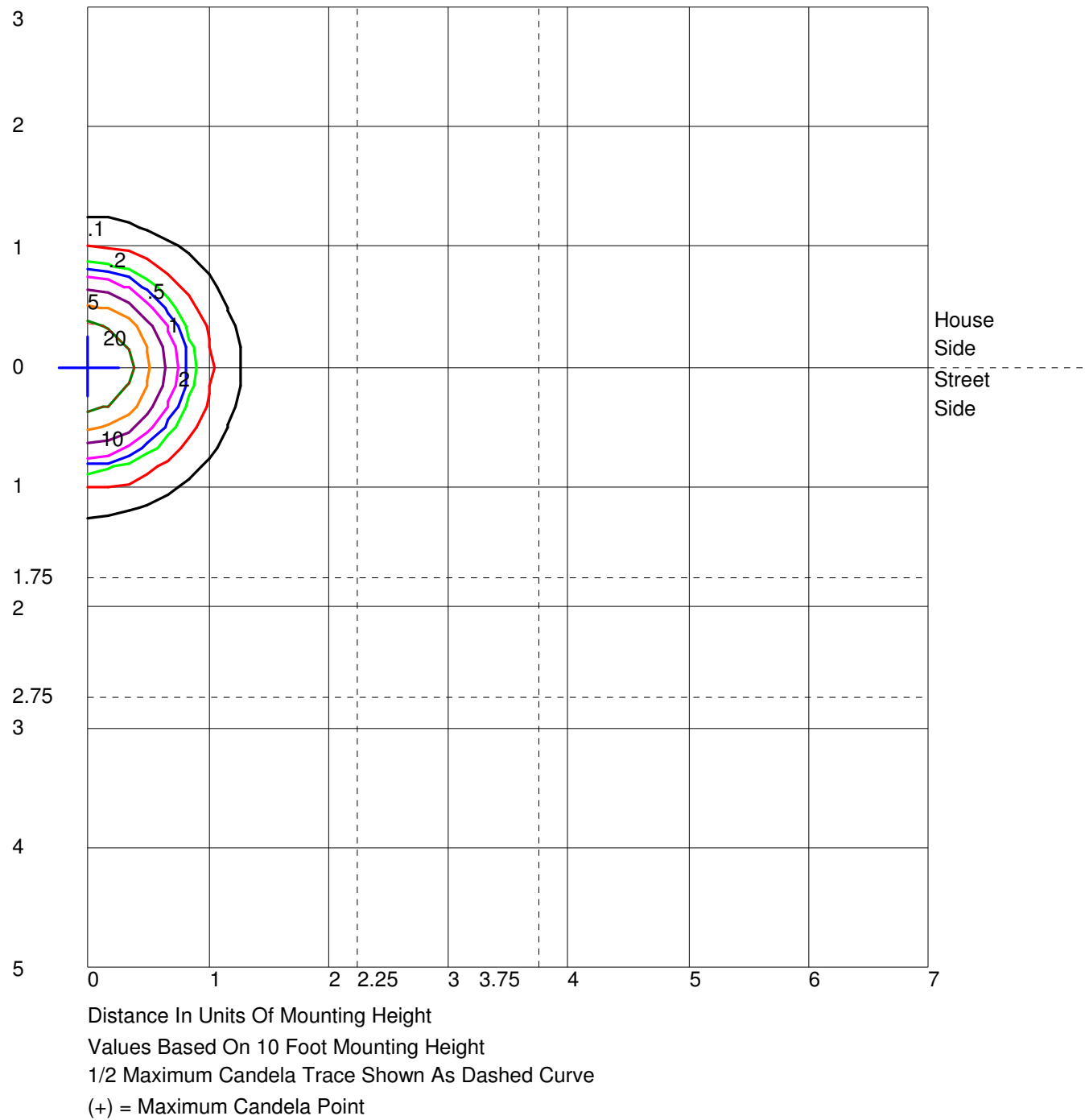
POLAR GRAPH



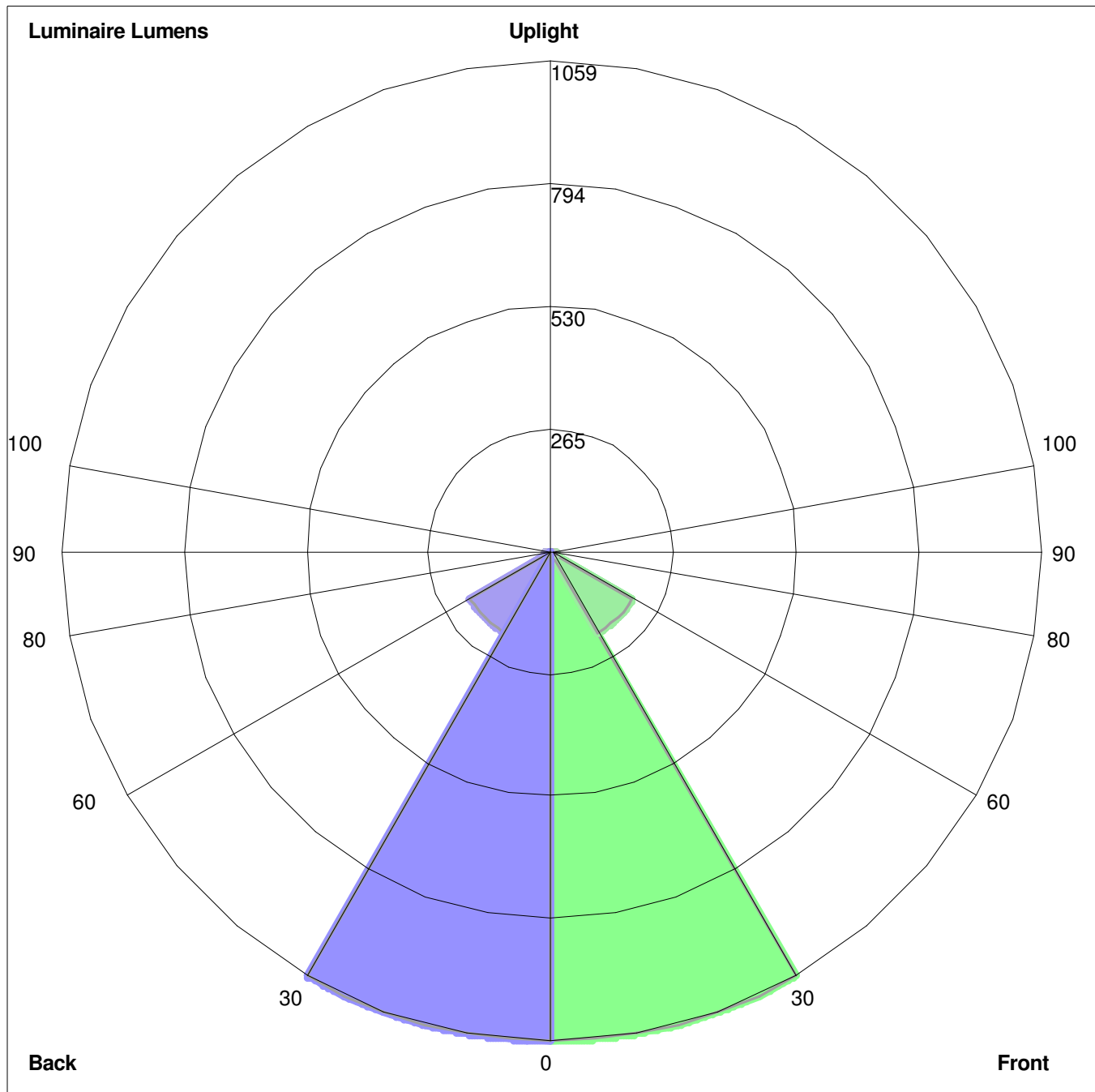
Maximum Candela = 4844.588 Located At Horizontal Angle = 90, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)



ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low= 1059.0, Medium=201.9, High=11.4, Very High=0.6  
Back: Low= 1059.0, Medium=201.9, High=11.4, Very High=0.6  
Uplight: Low=0.4, High=0.0

BUG Rating : B3-U1-G0