

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-850-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-L20-850-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	2031
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3863.664
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	3863.664
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.288 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.35 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-850-XXX-DIM-UNV-M-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	844.6	N.A.	41.6
FM - Front-Medium (30-60)	161.0	N.A.	7.9
FH - Front-High (60-80)	9.1	N.A.	0.4
FVH - Front-Very High (80-90)	0.5	N.A.	0.0
BL - Back-Low (0-30)	844.6	N.A.	41.6
BM - Back-Medium (30-60)	161.0	N.A.	7.9
BH - Back-High (60-80)	9.1	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	2030.7	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	3863.664	3863.664	3863.664	3863.664	3863.664
1	3857.702	3858.617	3856.050	3855.172	3855.518
2	3841.478	3846.886	3842.806	3841.404	3836.608
3	3813.263	3816.244	3811.994	3813.086	3811.515
4	3774.048	3782.142	3774.801	3775.206	3773.694
5	3734.316	3730.915	3725.189	3723.876	3721.537
6	3672.435	3674.213	3666.695	3662.555	3661.987
7	3604.459	3602.165	3598.601	3591.038	3584.863
8	3518.127	3521.956	3512.858	3505.185	3503.223
9	3419.826	3423.198	3417.827	3412.116	3409.482
10	3309.330	3310.865	3308.363	3306.261	3300.919
11	3189.869	3189.470	3187.943	3184.365	3180.115
12	3058.079	3061.200	3052.671	3054.523	3055.290
13	2920.585	2920.807	2912.374	2921.242	2923.618
14	2773.574	2777.116	2774.002	2781.646	2784.428
15	2622.793	2626.991	2625.958	2636.420	2639.106
16	2475.250	2477.301	2477.316	2489.040	2497.163
17	2330.526	2332.872	2333.876	2343.497	2353.443
18	2182.393	2189.240	2190.701	2200.411	2213.500
19	2047.298	2049.511	2055.871	2065.360	2075.077
20	1913.029	1920.606	1925.395	1934.684	1947.109
21	1788.750	1794.128	1801.337	1809.918	1821.317
22	1671.325	1677.692	1682.577	1693.533	1703.789
23	1560.201	1563.905	1569.513	1581.296	1592.260
24	1455.858	1457.563	1464.594	1475.662	1482.361
25	1354.777	1357.012	1364.922	1375.273	1380.173
26	1256.019	1261.508	1268.591	1277.851	1281.776
27	1159.054	1162.714	1174.615	1183.668	1183.203
28	1061.772	1065.823	1079.458	1085.146	1084.910
29	963.546	973.152	980.184	986.086	986.219
30	863.305	870.742	879.242	884.857	883.374
31	762.319	767.425	774.176	778.964	777.961
32	661.857	666.528	671.648	675.492	674.710
33	561.491	565.815	570.190	573.267	574.949
34	465.035	470.665	473.233	476.722	478.847
35	377.079	382.237	383.742	385.985	389.556
36	307.495	304.293	306.123	307.008	311.753
37	240.582	236.996	238.553	237.173	244.131
38	180.176	183.024	181.283	182.715	188.366
39	138.416	141.138	139.139	143.883	151.741
40	106.210	107.803	109.382	110.592	115.241
41	85.779	84.422	86.111	89.070	93.187
42	67.526	68.632	71.665	74.498	77.361
43	56.761	57.927	60.162	62.936	65.829
44	49.663	50.593	52.563	55.123	57.373
45	44.653	45.420	47.235	49.257	51.020
46	41.134	41.805	43.369	44.941	46.269
47	38.573	39.178	40.462	41.694	42.794
48	36.626	37.172	38.234	39.237	40.167
49	35.120	35.570	36.448	37.245	38.101
50	33.814	34.161	34.936	35.600	36.353
51	32.575	32.863	33.564	34.124	34.803
52	31.276	31.527	32.103	32.560	33.114

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-850-XXX-DIM-UNV-M-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	29.897	30.125	30.598	30.944	31.402
54	28.465	28.657	29.055	29.336	29.697
55	26.982	27.159	27.499	27.705	28.000
56	25.425	25.588	25.861	26.067	26.281
57	23.839	23.957	24.171	24.378	24.547
58	22.231	22.334	22.504	22.703	22.873
59	20.630	20.711	20.844	21.035	21.190
60	19.051	19.132	19.242	19.405	19.560
61	17.568	17.649	17.700	17.863	17.996
62	16.188	16.247	16.291	16.417	16.549
63	14.911	14.963	14.985	15.088	15.207
64	13.753	13.790	13.805	13.878	14.004
65	12.720	12.750	12.735	12.801	12.934
66	11.739	11.783	11.746	11.820	11.938
67	10.883	10.912	10.876	10.935	11.038
68	10.093	10.101	10.064	10.108	10.211
69	9.356	9.341	9.311	9.326	9.429
70	8.655	8.618	8.581	8.588	8.669
71	7.968	7.924	7.873	7.858	7.939
72	7.290	7.253	7.179	7.150	7.238
73	6.611	6.567	6.485	6.441	6.544
74	5.910	5.866	5.770	5.726	5.821
75	5.150	5.128	5.017	4.980	5.061
76	4.287	4.272	4.161	4.154	4.213
77	3.328	3.313	3.187	3.180	3.232
78	2.221	2.221	2.110	2.051	2.088
79	1.490	1.513	1.468	1.461	1.454
80	1.350	1.343	1.335	1.321	1.321
81	1.262	1.262	1.254	1.247	1.247
82	1.188	1.181	1.188	1.181	1.181
83	1.107	1.099	1.107	1.099	1.107
84	1.018	1.011	1.018	1.011	1.018
85	0.915	0.915	0.915	0.915	0.915
86	0.797	0.797	0.804	0.797	0.804
87	0.679	0.671	0.679	0.664	0.664
88	0.531	0.531	0.531	0.524	0.531
89	0.384	0.376	0.384	0.369	0.369
90	0.288	0.280	0.280	0.258	0.243
91	0.266	0.266	0.266	0.243	0.243
92	0.266	0.266	0.266	0.243	0.243
93	0.273	0.266	0.266	0.251	0.243
94	0.273	0.266	0.273	0.251	0.251
95	0.273	0.266	0.273	0.251	0.258
96	0.273	0.266	0.273	0.258	0.258
97	0.280	0.266	0.273	0.258	0.258
98	0.280	0.273	0.273	0.258	0.266
99	0.288	0.280	0.280	0.266	0.273
100	0.288	0.288	0.280	0.273	0.273
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

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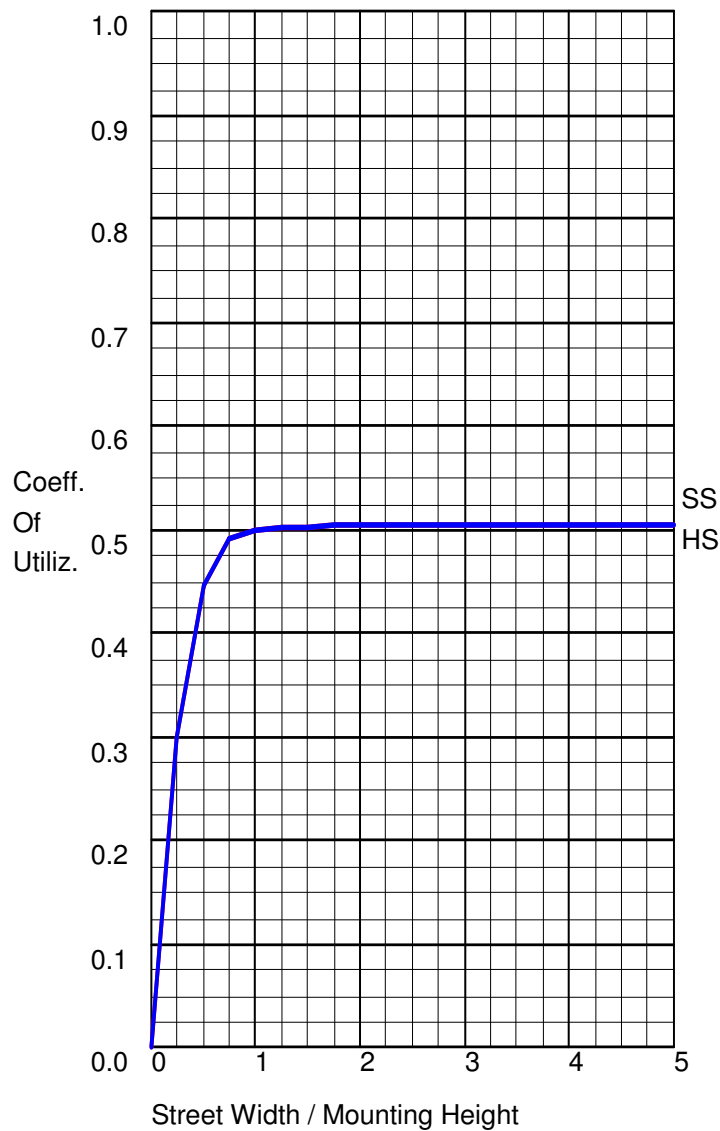
CANDELA TABULATION - (Cont.)

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-L20-850-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

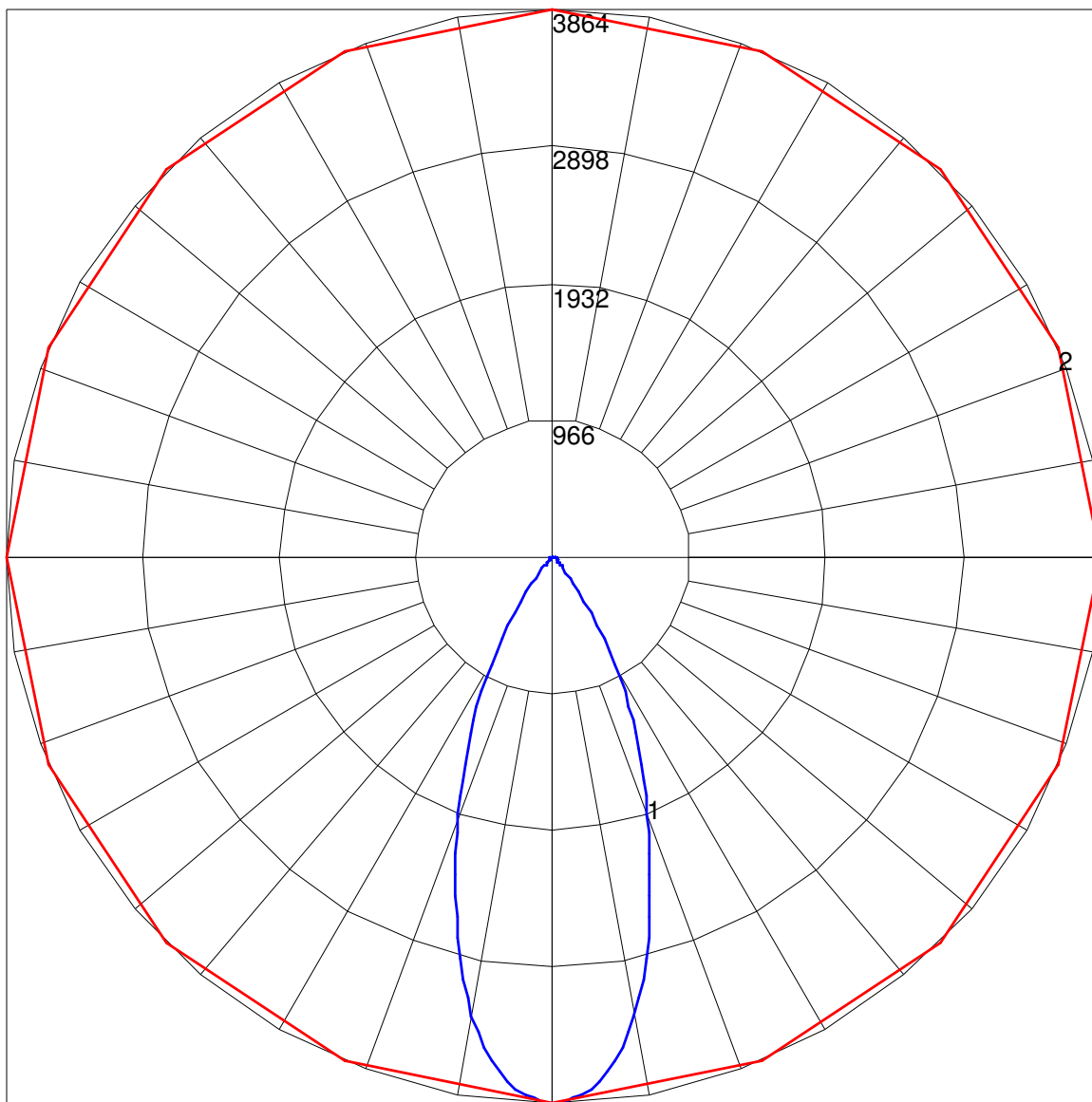
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

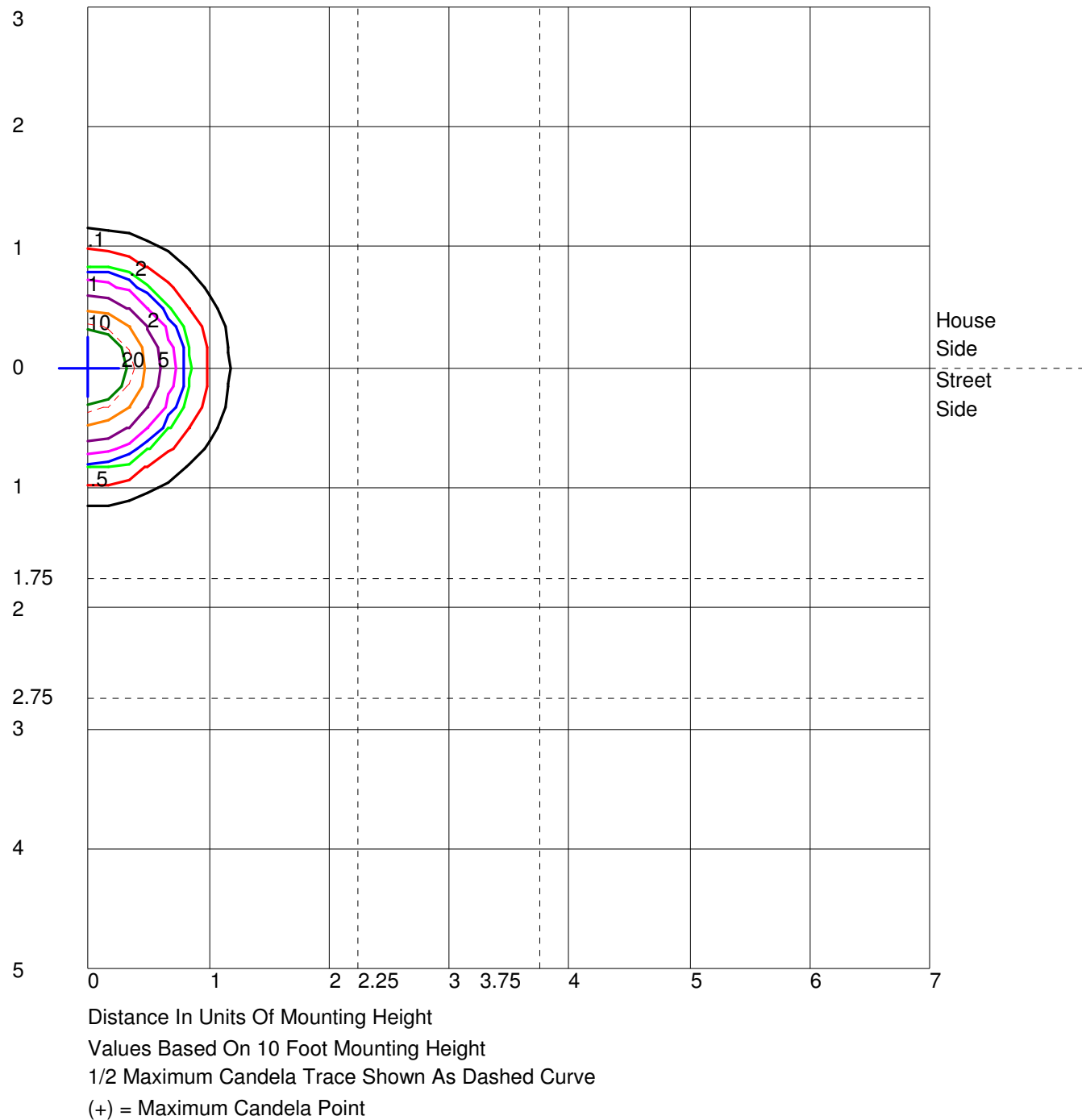
	Lumens	Percent Of Luminaire
Downward Street Side	1015.1	50.0
Downward House Side	1015.1	50.0
Downward Total	2030.2	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2030.6	100.0

POLAR GRAPH

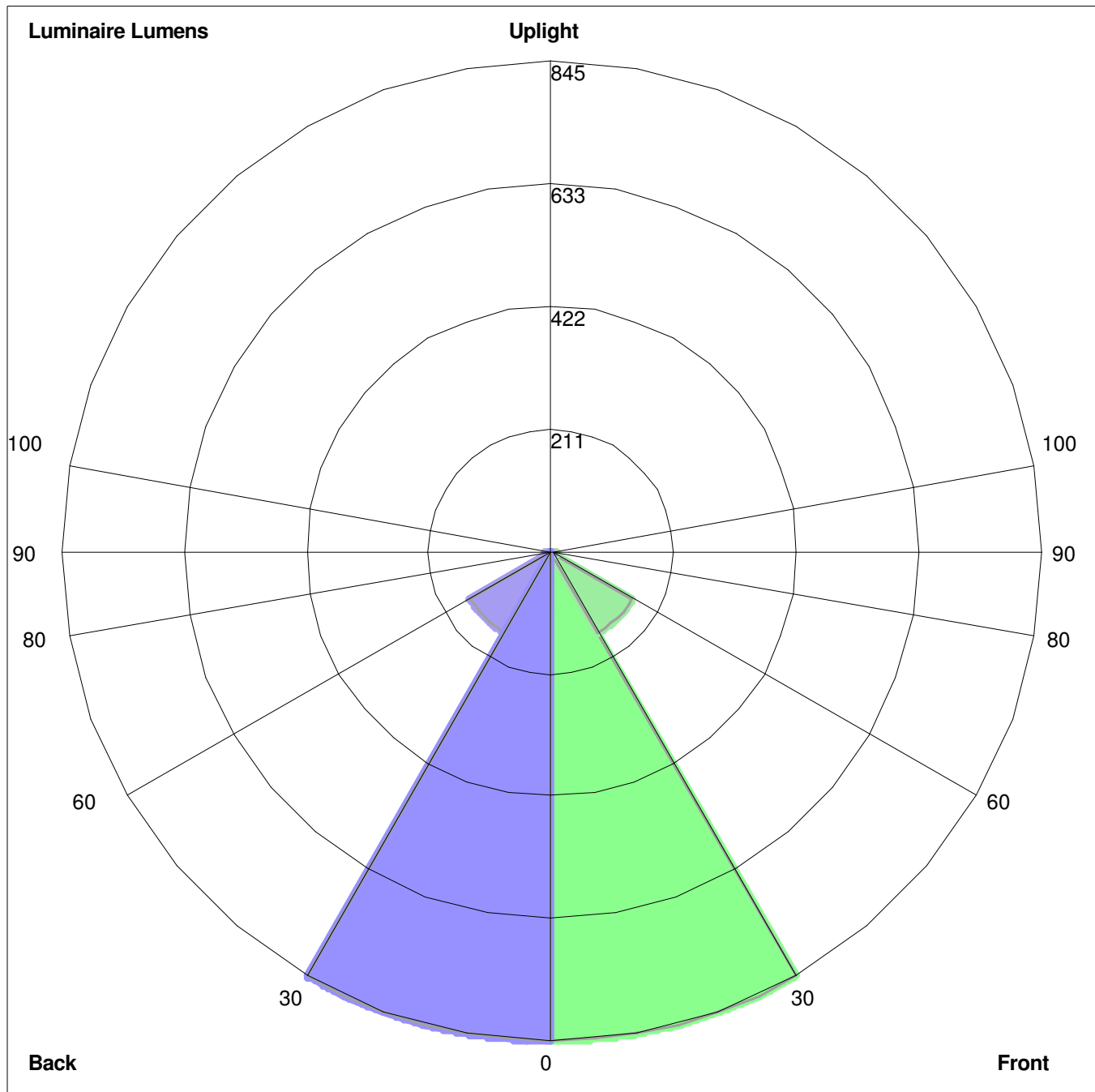


Maximum Candela = 3863.664 Located At Horizontal Angle = 90, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=844.6, Medium=161.0, High=9.1, Very High=0.5  
Back: Low=844.6, Medium=161.0, High=9.1, Very High=0.5  
Uplight: Low=0.3, High=0.0

BUG Rating : B2-U1-G0