

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-850-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-L25-850-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	2564
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3231.619
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	3231.619
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.402 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.83 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-850-XXX-DIM-UNV-W-XXX\_.IES\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	992.3	N.A.	38.7
FM - Front-Medium (30-60)	277.0	N.A.	10.8
FH - Front-High (60-80)	11.9	N.A.	0.5
FVH - Front-Very High (80-90)	0.6	N.A.	0.0
BL - Back-Low (0-30)	992.3	N.A.	38.7
BM - Back-Medium (30-60)	277.0	N.A.	10.8
BH - Back-High (60-80)	11.9	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	2564.0	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	3226.253	3226.253	3226.253	3226.253	3226.253
1	3221.098	3220.945	3221.453	3225.324	3229.003
2	3223.896	3222.938	3219.737	3226.023	3231.619
3	3220.868	3216.825	3219.795	3217.802	3224.720
4	3216.058	3212.810	3211.420	3215.148	3221.683
5	3211.717	3210.414	3207.511	3210.136	3214.046
6	3202.624	3204.320	3196.645	3202.538	3199.261
7	3189.804	3195.112	3189.095	3189.037	3185.415
8	3177.798	3176.705	3174.195	3174.664	3175.479
9	3162.409	3158.730	3155.740	3157.331	3156.124
10	3133.290	3134.219	3132.322	3130.444	3129.304
11	3097.435	3100.204	3096.381	3097.923	3094.081
12	3055.572	3052.803	3051.662	3056.300	3054.479
13	3001.032	3000.150	3002.690	3007.912	3007.595
14	2945.496	2940.896	2942.429	2944.566	2950.545
15	2876.276	2873.900	2870.173	2878.710	2875.491
16	2802.372	2795.434	2792.445	2798.577	2802.832
17	2720.265	2712.293	2712.810	2712.446	2722.038
18	2630.550	2626.440	2627.139	2621.687	2632.122
19	2535.929	2532.461	2532.078	2532.930	2538.890
20	2439.824	2439.431	2436.949	2438.243	2446.263
21	2346.966	2342.875	2341.801	2345.040	2347.685
22	2245.533	2249.701	2247.027	2249.720	2252.930
23	2152.292	2150.787	2150.644	2152.886	2160.523
24	2054.777	2052.938	2055.027	2059.693	2062.385
25	1956.305	1955.701	1957.503	1963.395	1964.363
26	1855.312	1855.801	1860.132	1864.923	1864.434
27	1744.249	1747.076	1756.849	1761.171	1756.840
28	1629.449	1630.062	1643.621	1648.086	1641.503
29	1505.652	1509.216	1521.174	1524.154	1519.747
30	1374.544	1377.437	1390.306	1393.266	1387.287
31	1232.914	1239.631	1247.910	1253.592	1251.302
32	1091.266	1098.788	1104.144	1110.641	1108.753
33	948.065	952.665	960.330	966.568	966.491
34	804.855	813.019	818.337	827.296	830.276
35	671.447	680.291	683.013	691.799	696.887
36	551.416	557.989	560.691	566.785	575.744
37	443.840	448.986	451.630	457.082	466.674
38	357.307	355.687	361.015	366.716	371.814
39	278.841	283.392	284.676	290.291	297.056
40	219.252	223.803	227.051	231.746	237.888
41	173.096	176.804	180.618	189.471	197.357
42	138.956	141.667	148.059	152.811	157.008
43	116.266	117.282	121.469	126.892	130.256
44	96.029	97.917	101.932	107.796	109.702
45	82.270	83.908	87.406	91.756	93.691
46	71.988	73.330	76.358	79.769	81.062
47	64.055	65.310	67.686	70.446	71.576
48	58.066	59.082	60.912	63.211	64.409
49	53.304	54.157	55.699	57.491	58.612
50	49.414	50.132	51.454	52.920	53.831
51	46.127	46.721	47.928	49.145	49.912
52	43.051	43.597	44.623	45.638	46.252

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-850-XXX-DIM-UNV-W-XXX\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

53	40.263	40.723	41.576	42.400	42.898
54	37.695	38.117	38.835	39.468	39.889
55	35.376	35.692	36.353	36.852	37.168
56	33.124	33.431	33.987	34.408	34.600
57	30.997	31.237	31.687	32.061	32.185
58	28.918	29.119	29.493	29.809	29.915
59	26.896	27.050	27.337	27.634	27.730
60	24.903	25.037	25.286	25.516	25.622
61	23.035	23.140	23.332	23.523	23.581
62	21.291	21.348	21.482	21.645	21.693
63	19.643	19.691	19.777	19.901	19.969
64	18.119	18.158	18.215	18.320	18.388
65	16.749	16.787	16.797	16.874	16.979
66	15.465	15.503	15.494	15.561	15.628
67	14.306	14.334	14.306	14.354	14.411
68	13.233	13.242	13.223	13.223	13.290
69	12.226	12.217	12.188	12.169	12.217
70	11.268	11.249	11.192	11.153	11.192
71	10.339	10.300	10.224	10.166	10.185
72	9.419	9.381	9.294	9.208	9.246
73	8.528	8.461	8.346	8.260	8.307
74	7.608	7.531	7.416	7.321	7.378
75	6.621	6.564	6.439	6.372	6.410
76	5.538	5.490	5.356	5.328	5.347
77	4.312	4.293	4.159	4.139	4.159
78	2.913	2.913	2.807	2.750	2.769
79	2.022	2.041	1.993	1.983	1.955
80	1.830	1.821	1.811	1.801	1.792
81	1.706	1.706	1.706	1.696	1.696
82	1.610	1.600	1.610	1.600	1.600
83	1.495	1.495	1.504	1.495	1.495
84	1.380	1.370	1.389	1.370	1.370
85	1.246	1.236	1.246	1.236	1.236
86	1.092	1.092	1.092	1.083	1.083
87	0.920	0.910	0.920	0.910	0.901
88	0.728	0.719	0.728	0.719	0.709
89	0.527	0.517	0.517	0.498	0.498
90	0.402	0.383	0.383	0.355	0.335
91	0.374	0.355	0.364	0.345	0.335
92	0.374	0.355	0.364	0.335	0.335
93	0.374	0.364	0.364	0.345	0.335
94	0.374	0.364	0.364	0.345	0.345
95	0.383	0.364	0.364	0.345	0.345
96	0.383	0.364	0.364	0.345	0.345
97	0.383	0.374	0.374	0.355	0.355
98	0.383	0.374	0.383	0.355	0.364
99	0.393	0.383	0.383	0.364	0.364
100	0.393	0.383	0.393	0.364	0.374
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

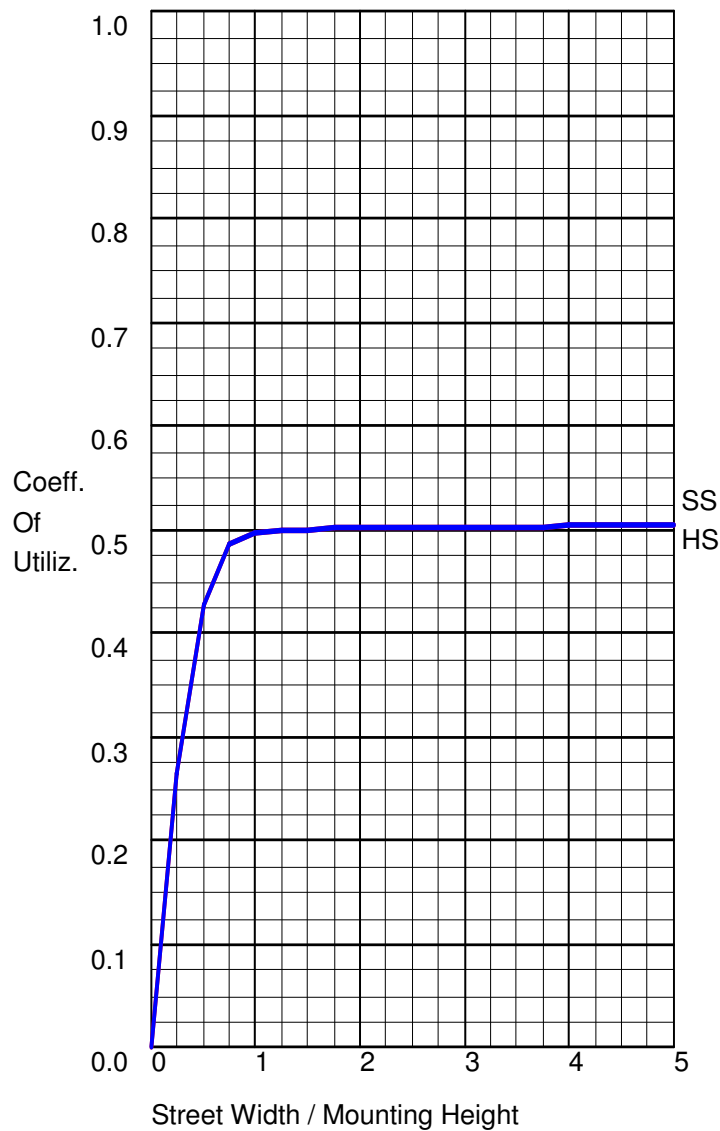
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-850-XXX-DIM-UNV-W-XXX\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

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-L25-850-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

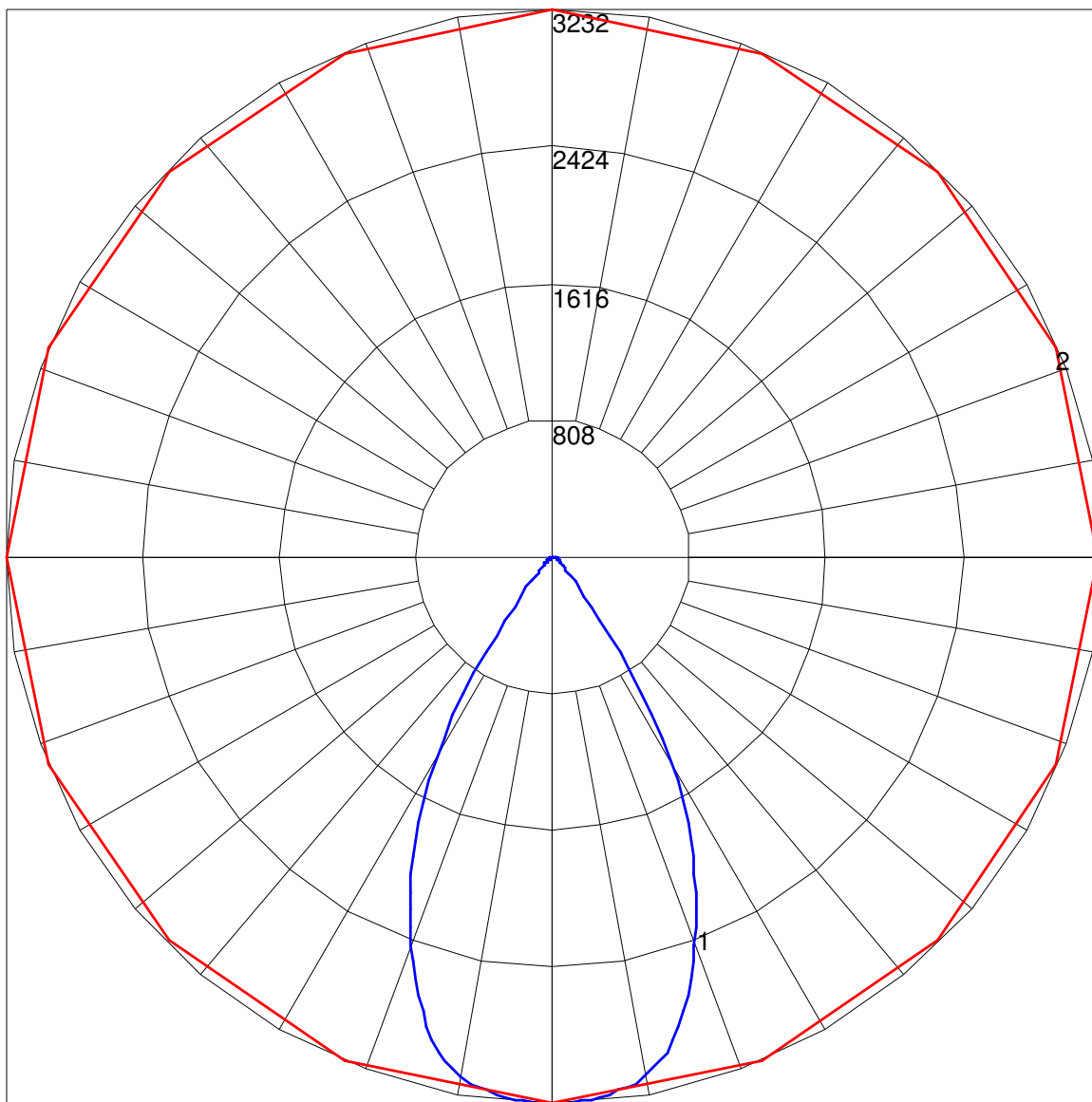
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

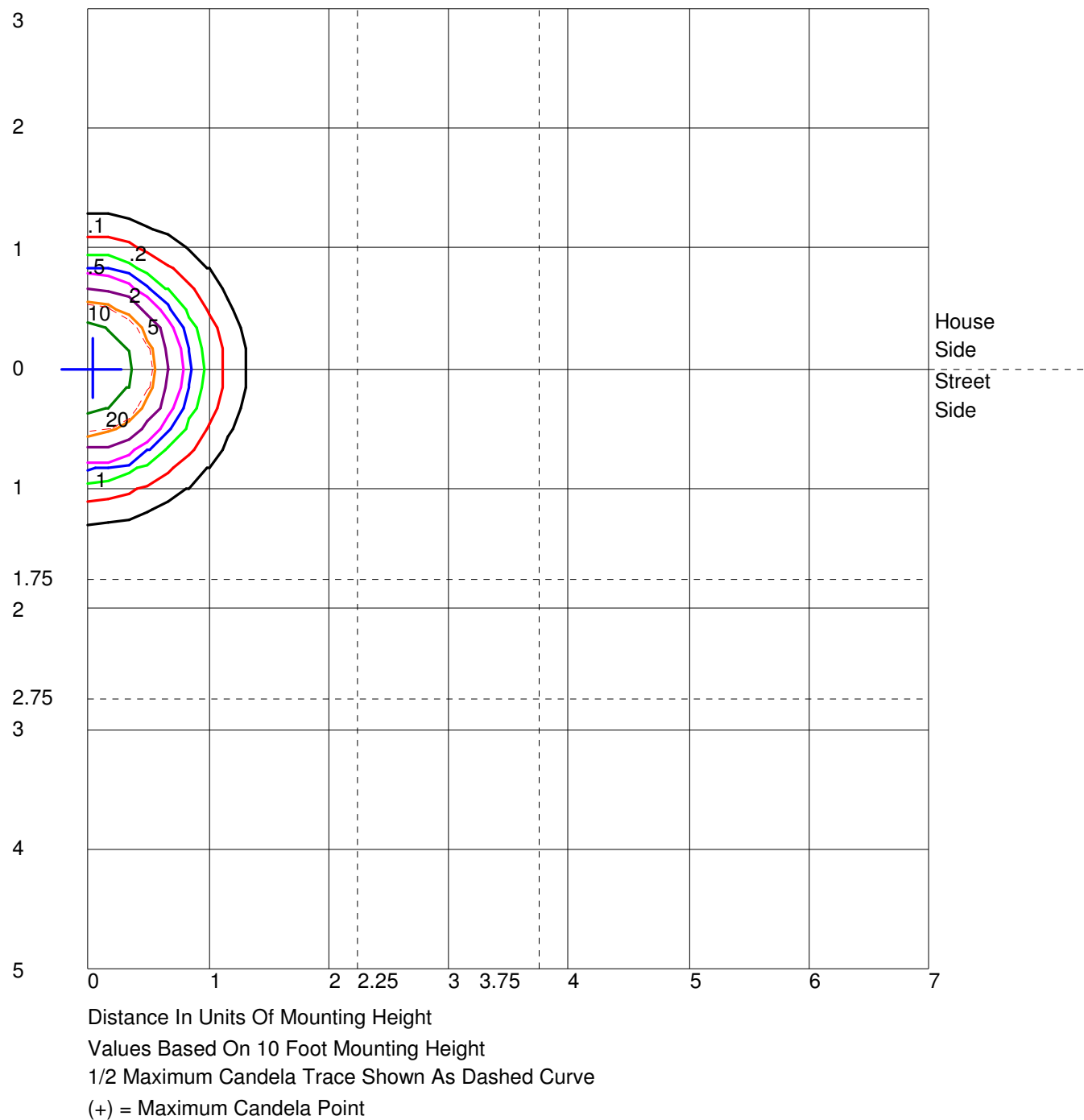
	Lumens	Percent Of Luminaire
Downward Street Side	1281.8	50.0
Downward House Side	1281.8	50.0
Downward Total	2563.6	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2564.0	100.0

POLAR GRAPH

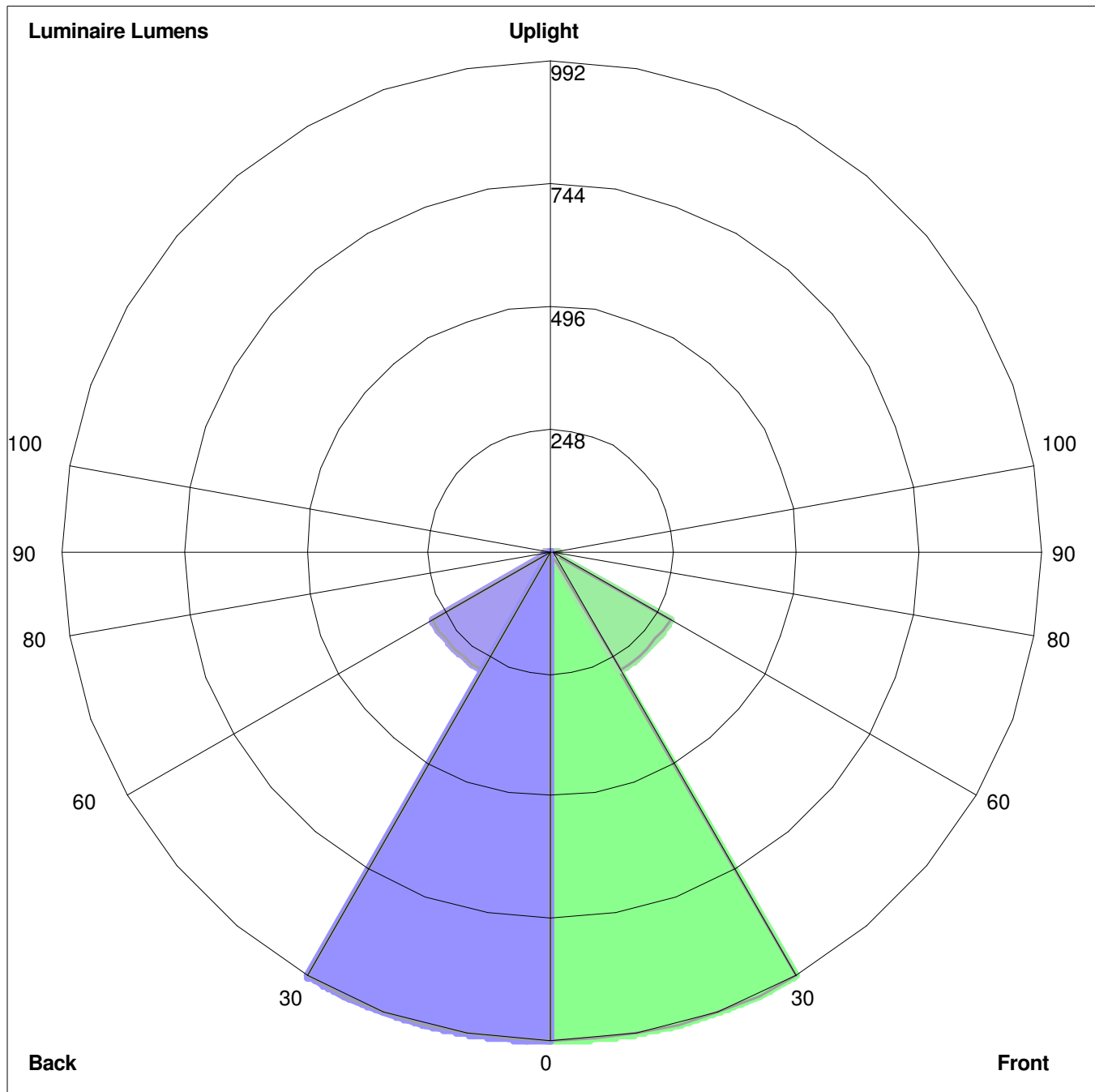


Maximum Candela = 3231.619 Located At Horizontal Angle = 90, Vertical Angle = 2  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=992.3, Medium=277.0, High=11.9, Very High=0.6  
Back: Low=992.3, Medium=277.0, High=11.9, Very High=0.6  
Uplight: Low=0.4, High=0.0

BUG Rating : B2-U1-G0