

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-840-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-L15-840-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	1553
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2955.808
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	2955.808
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.22 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.033 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-840-XXX-DIM-UNV-M-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	646.1	N.A.	41.6
FM - Front-Medium (30-60)	123.2	N.A.	7.9
FH - Front-High (60-80)	6.9	N.A.	0.4
FVH - Front-Very High (80-90)	0.4	N.A.	0.0
BL - Back-Low (0-30)	646.1	N.A.	41.6
BM - Back-Medium (30-60)	123.2	N.A.	7.9
BH - Back-High (60-80)	6.9	N.A.	0.4
BVH - Back-Very High (80-90)	0.4	N.A.	0.0
UL - Uplight-Low (90-100)	0.2	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	1553.4	N.A.	100.0
BUG Rating	B2-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-840-XXX-DIM-UNV-M-XXX_.IES****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	2955.808	2955.808	2955.808	2955.808	2955.808
1	2951.247	2951.947	2949.982	2949.311	2949.576
2	2938.835	2942.972	2939.851	2938.778	2935.109
3	2917.250	2919.530	2916.279	2917.114	2915.912
4	2887.249	2893.441	2887.825	2888.135	2886.978
5	2856.853	2854.251	2849.871	2848.866	2847.077
6	2809.512	2810.873	2805.121	2801.954	2801.520
7	2757.509	2755.754	2753.027	2747.242	2742.517
8	2691.462	2694.392	2687.432	2681.562	2680.060
9	2616.260	2618.839	2614.730	2610.361	2608.346
10	2531.727	2532.901	2530.988	2529.379	2525.292
11	2440.336	2440.031	2438.863	2436.125	2432.874
12	2339.513	2341.901	2335.376	2336.793	2337.380
13	2234.327	2234.496	2228.045	2234.829	2236.647
14	2121.859	2124.569	2122.187	2128.035	2130.163
15	2006.507	2009.719	2008.929	2016.933	2018.987
16	1893.633	1895.203	1895.214	1904.183	1910.398
17	1782.916	1784.710	1785.478	1792.839	1800.447
18	1669.590	1674.828	1675.946	1683.374	1693.387
19	1566.238	1567.932	1572.797	1580.056	1587.490
20	1463.519	1469.316	1472.979	1480.085	1489.591
21	1368.442	1372.557	1378.072	1384.636	1393.357
22	1278.609	1283.480	1287.217	1295.599	1303.445
23	1193.596	1196.430	1200.720	1209.734	1218.122
24	1113.771	1115.075	1120.454	1128.921	1134.046
25	1036.441	1038.151	1044.202	1052.121	1055.869
26	960.889	965.088	970.507	977.591	980.594
27	886.708	889.508	898.612	905.538	905.182
28	812.284	815.383	825.814	830.166	829.986
29	737.139	744.488	749.867	754.383	754.484
30	660.452	666.141	672.644	676.939	675.805
31	583.195	587.101	592.266	595.929	595.161
32	506.339	509.912	513.829	516.770	516.171
33	429.556	432.864	436.211	438.565	439.851
34	355.765	360.071	362.036	364.706	366.331
35	288.476	292.422	293.573	295.289	298.021
36	235.242	232.792	234.192	234.870	238.499
37	184.052	181.309	182.500	181.444	186.767
38	137.840	140.019	138.687	139.782	144.105
39	105.892	107.975	106.445	110.074	116.086
40	81.253	82.473	83.680	84.606	88.162
41	65.624	64.585	65.878	68.141	71.291
42	51.659	52.506	54.826	56.993	59.183
43	43.424	44.315	46.026	48.148	50.361
44	37.993	38.705	40.212	42.170	43.892
45	34.161	34.748	36.136	37.683	39.032
46	31.468	31.982	33.179	34.381	35.397
47	29.510	29.973	30.955	31.897	32.738
48	28.020	28.437	29.250	30.018	30.729
49	26.868	27.212	27.884	28.494	29.148
50	25.869	26.134	26.727	27.235	27.811
51	24.921	25.141	25.677	26.106	26.625
52	23.927	24.119	24.559	24.909	25.333

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-840-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	22.872	23.047	23.408	23.673	24.023
54	21.777	21.923	22.228	22.443	22.719
55	20.642	20.778	21.037	21.195	21.421
56	19.451	19.575	19.784	19.942	20.106
57	18.238	18.328	18.492	18.650	18.779
58	17.007	17.086	17.216	17.368	17.498
59	15.782	15.844	15.946	16.093	16.211
60	14.574	14.636	14.721	14.845	14.964
61	13.440	13.502	13.541	13.665	13.767
62	12.384	12.429	12.463	12.559	12.661
63	11.408	11.447	11.464	11.543	11.633
64	10.521	10.550	10.561	10.617	10.713
65	9.731	9.754	9.742	9.793	9.895
66	8.980	9.014	8.986	9.043	9.133
67	8.326	8.348	8.320	8.365	8.444
68	7.722	7.727	7.699	7.733	7.812
69	7.157	7.146	7.123	7.135	7.214
70	6.621	6.593	6.565	6.570	6.632
71	6.096	6.062	6.023	6.011	6.074
72	5.577	5.549	5.492	5.470	5.537
73	5.058	5.024	4.962	4.928	5.007
74	4.521	4.487	4.414	4.380	4.454
75	3.940	3.923	3.838	3.810	3.872
76	3.279	3.268	3.184	3.178	3.223
77	2.546	2.534	2.438	2.433	2.472
78	1.699	1.699	1.614	1.569	1.597
79	1.140	1.157	1.123	1.118	1.112
80	1.033	1.027	1.022	1.010	1.010
81	0.965	0.965	0.960	0.954	0.954
82	0.909	0.903	0.909	0.903	0.903
83	0.847	0.841	0.847	0.841	0.847
84	0.779	0.773	0.779	0.773	0.779
85	0.700	0.700	0.700	0.700	0.700
86	0.610	0.610	0.615	0.610	0.615
87	0.519	0.514	0.519	0.508	0.508
88	0.406	0.406	0.406	0.401	0.406
89	0.294	0.288	0.294	0.282	0.282
90	0.220	0.214	0.214	0.198	0.186
91	0.203	0.203	0.203	0.186	0.186
92	0.203	0.203	0.203	0.186	0.186
93	0.209	0.203	0.203	0.192	0.186
94	0.209	0.203	0.209	0.192	0.192
95	0.209	0.203	0.209	0.192	0.198
96	0.209	0.203	0.209	0.198	0.198
97	0.214	0.203	0.209	0.198	0.198
98	0.214	0.209	0.209	0.198	0.203
99	0.220	0.214	0.214	0.203	0.209
100	0.220	0.220	0.214	0.209	0.209
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

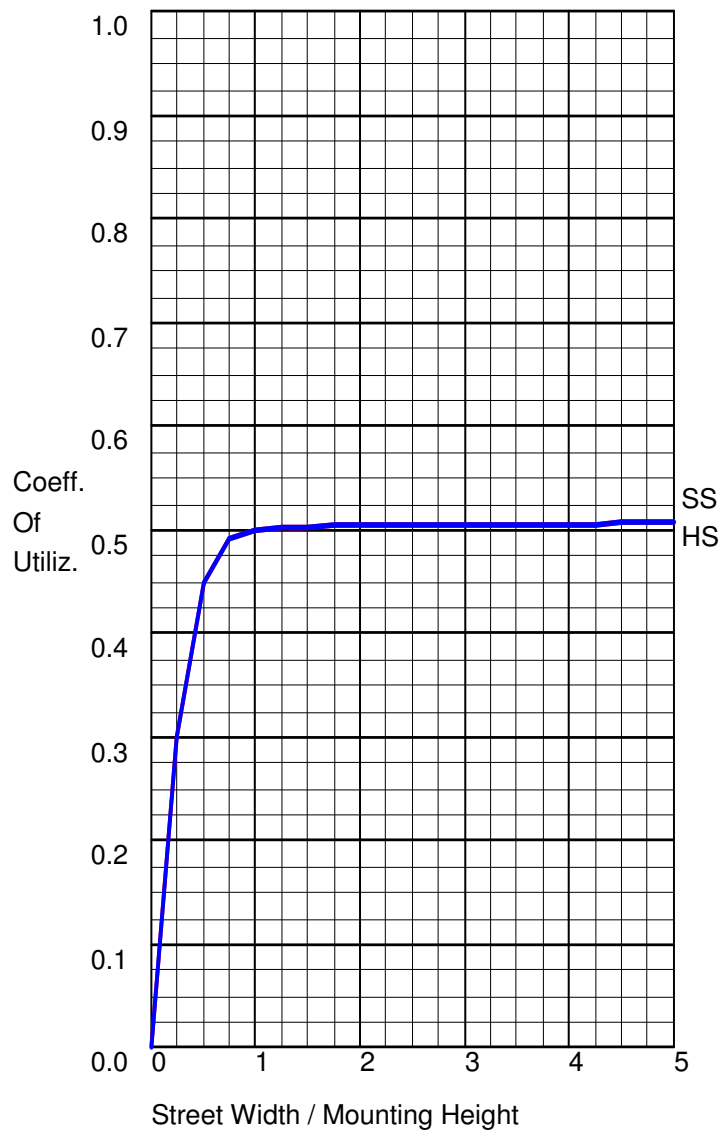
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-840-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L15-840-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

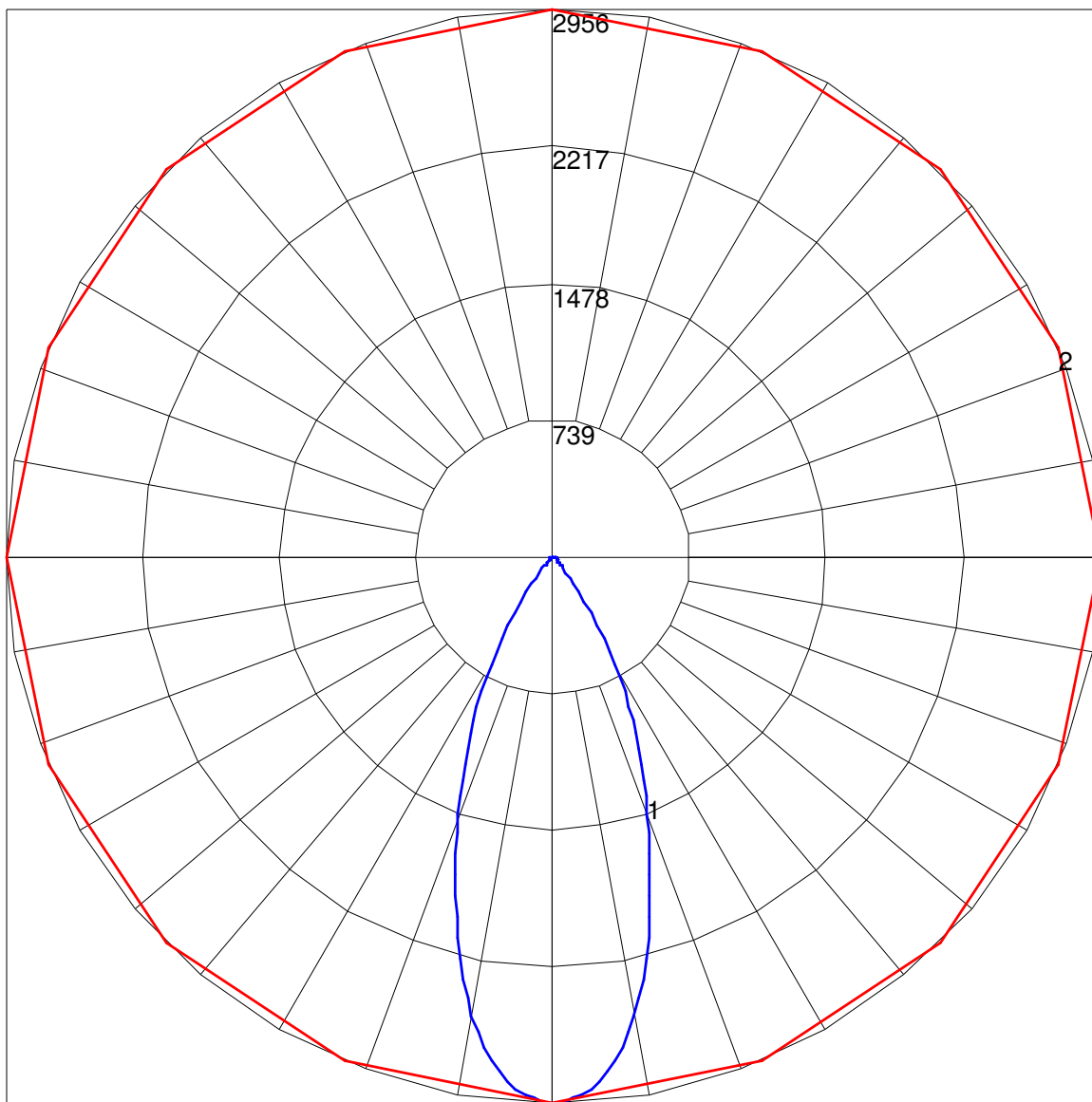
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

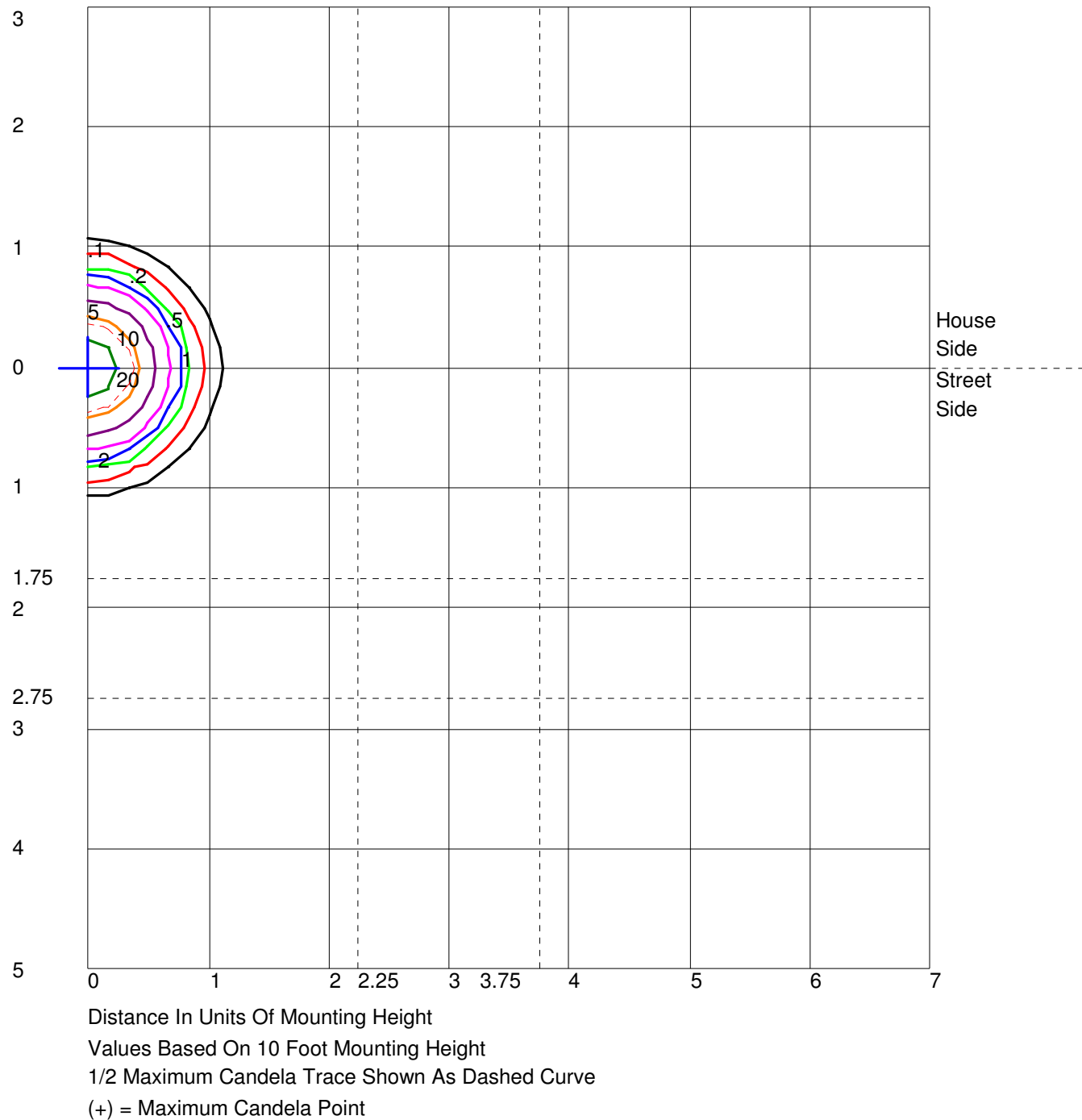
	Lumens	Percent Of Luminaire
Downward Street Side	776.6	50.0
Downward House Side	776.6	50.0
Downward Total	1553.2	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1553.4	100.0

POLAR GRAPH

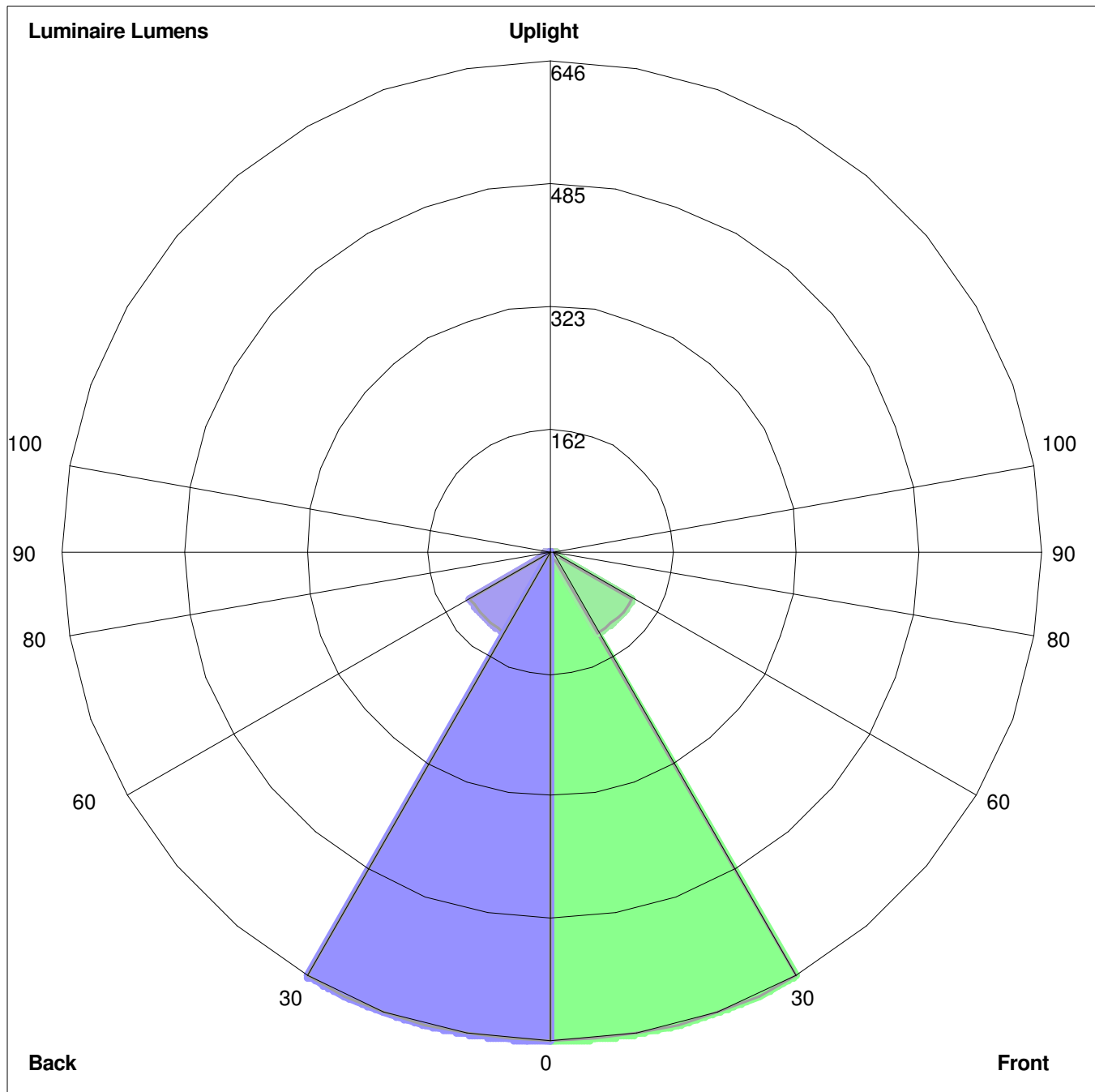


Maximum Candela = 2955.808 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=646.1, Medium=123.2, High=6.9, Very High=0.4
Back: Low=646.1, Medium=123.2, High=6.9, Very High=0.4
Uplight: Low=0.2, High=0.0

BUG Rating : B2-U1-G0