

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-940-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-L20-940-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	1990
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3785.61
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	3785.61
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.282 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.323 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-940-XXX-DIM-UNV-M-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	827.5	N.A.	41.6
FM - Front-Medium (30-60)	157.8	N.A.	7.9
FH - Front-High (60-80)	8.9	N.A.	0.4
FVH - Front-Very High (80-90)	0.5	N.A.	0.0
BL - Back-Low (0-30)	827.5	N.A.	41.6
BM - Back-Medium (30-60)	157.8	N.A.	7.9
BH - Back-High (60-80)	8.9	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	1989.7	N.A.	100.0
BUG Rating	B2-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-940-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	3785.610	3785.610	3785.610	3785.610	3785.610
1	3779.769	3780.666	3778.150	3777.289	3777.629
2	3763.872	3769.171	3765.173	3763.800	3759.101
3	3736.228	3739.148	3734.984	3736.054	3734.514
4	3697.805	3705.735	3698.542	3698.940	3697.458
5	3658.876	3655.543	3649.933	3648.646	3646.355
6	3598.244	3599.987	3592.620	3588.565	3588.008
7	3531.642	3529.394	3525.902	3518.492	3512.441
8	3447.053	3450.805	3441.892	3434.373	3432.450
9	3350.739	3354.043	3348.780	3343.184	3340.604
10	3242.475	3243.978	3241.528	3239.467	3234.234
11	3125.427	3125.037	3123.540	3120.034	3115.870
12	2996.300	2999.358	2991.001	2992.815	2993.567
13	2861.584	2861.801	2853.538	2862.227	2864.555
14	2717.542	2721.012	2717.962	2725.451	2728.177
15	2569.807	2573.920	2572.908	2583.159	2585.791
16	2425.245	2427.255	2427.269	2438.756	2446.716
17	2283.445	2285.744	2286.727	2296.154	2305.899
18	2138.304	2145.013	2146.444	2155.958	2168.783
19	2005.938	2008.107	2014.338	2023.635	2033.156
20	1874.382	1881.806	1886.498	1895.599	1907.773
21	1752.613	1757.883	1764.946	1773.354	1784.523
22	1637.561	1643.800	1648.585	1659.321	1669.369
23	1528.682	1532.311	1537.805	1549.350	1560.093
24	1426.447	1428.117	1435.007	1445.850	1452.414
25	1327.407	1329.598	1337.348	1347.490	1352.290
26	1230.645	1236.023	1242.963	1252.036	1255.882
27	1135.639	1139.225	1150.885	1159.756	1159.300
28	1040.322	1044.291	1057.651	1063.224	1062.993
29	944.080	953.493	960.382	966.165	966.295
30	845.865	853.152	861.480	866.981	865.528
31	746.919	751.921	758.536	763.228	762.245
32	648.486	653.062	658.079	661.846	661.080
33	550.148	554.384	558.671	561.686	563.334
34	455.641	461.157	463.672	467.092	469.174
35	369.462	374.515	375.990	378.187	381.686
36	301.283	298.146	299.939	300.806	305.455
37	235.722	232.208	233.734	232.382	239.199
38	176.537	179.327	177.621	179.023	184.561
39	135.619	138.287	136.328	140.976	148.675
40	104.064	105.626	107.173	108.358	112.913
41	84.046	82.716	84.372	87.271	91.305
42	66.161	67.246	70.217	72.993	75.798
43	55.614	56.756	58.947	61.665	64.499
44	48.660	49.570	51.501	54.009	56.214
45	43.751	44.503	46.281	48.262	49.990
46	40.303	40.961	42.493	44.033	45.334
47	37.794	38.387	39.645	40.852	41.929
48	35.886	36.421	37.462	38.445	39.356
49	34.411	34.852	35.712	36.493	37.331
50	33.131	33.471	34.230	34.881	35.618
51	31.917	32.199	32.886	33.435	34.100
52	30.644	30.890	31.454	31.902	32.445

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-940-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	29.293	29.517	29.979	30.319	30.767
54	27.890	28.078	28.469	28.743	29.097
55	26.437	26.611	26.943	27.146	27.435
56	24.912	25.071	25.338	25.541	25.750
57	23.357	23.473	23.683	23.885	24.051
58	21.782	21.883	22.049	22.244	22.410
59	20.213	20.292	20.422	20.610	20.762
60	18.666	18.745	18.854	19.013	19.165
61	17.213	17.292	17.343	17.502	17.632
62	15.861	15.919	15.962	16.085	16.215
63	14.610	14.661	14.682	14.784	14.899
64	13.475	13.511	13.526	13.598	13.721
65	12.463	12.492	12.478	12.543	12.673
66	11.502	11.545	11.509	11.581	11.697
67	10.663	10.692	10.656	10.714	10.815
68	9.890	9.897	9.861	9.904	10.005
69	9.167	9.152	9.123	9.138	9.239
70	8.480	8.444	8.408	8.415	8.494
71	7.808	7.764	7.714	7.699	7.779
72	7.142	7.106	7.034	7.005	7.092
73	6.477	6.434	6.354	6.311	6.412
74	5.791	5.747	5.653	5.610	5.704
75	5.046	5.024	4.916	4.880	4.959
76	4.200	4.186	4.077	4.070	4.128
77	3.260	3.246	3.123	3.116	3.166
78	2.176	2.176	2.068	2.010	2.046
79	1.460	1.482	1.439	1.431	1.424
80	1.323	1.316	1.308	1.294	1.294
81	1.236	1.236	1.229	1.222	1.222
82	1.164	1.157	1.164	1.157	1.157
83	1.084	1.077	1.084	1.077	1.084
84	0.998	0.990	0.998	0.990	0.998
85	0.896	0.896	0.896	0.896	0.896
86	0.781	0.781	0.788	0.781	0.788
87	0.665	0.658	0.665	0.651	0.651
88	0.521	0.521	0.521	0.513	0.521
89	0.376	0.369	0.376	0.361	0.361
90	0.282	0.275	0.275	0.253	0.239
91	0.260	0.260	0.260	0.239	0.239
92	0.260	0.260	0.260	0.239	0.239
93	0.267	0.260	0.260	0.246	0.239
94	0.267	0.260	0.267	0.246	0.246
95	0.267	0.260	0.267	0.246	0.253
96	0.267	0.260	0.267	0.253	0.253
97	0.275	0.260	0.267	0.253	0.253
98	0.275	0.267	0.267	0.253	0.260
99	0.282	0.275	0.275	0.260	0.267
100	0.282	0.282	0.275	0.267	0.267
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

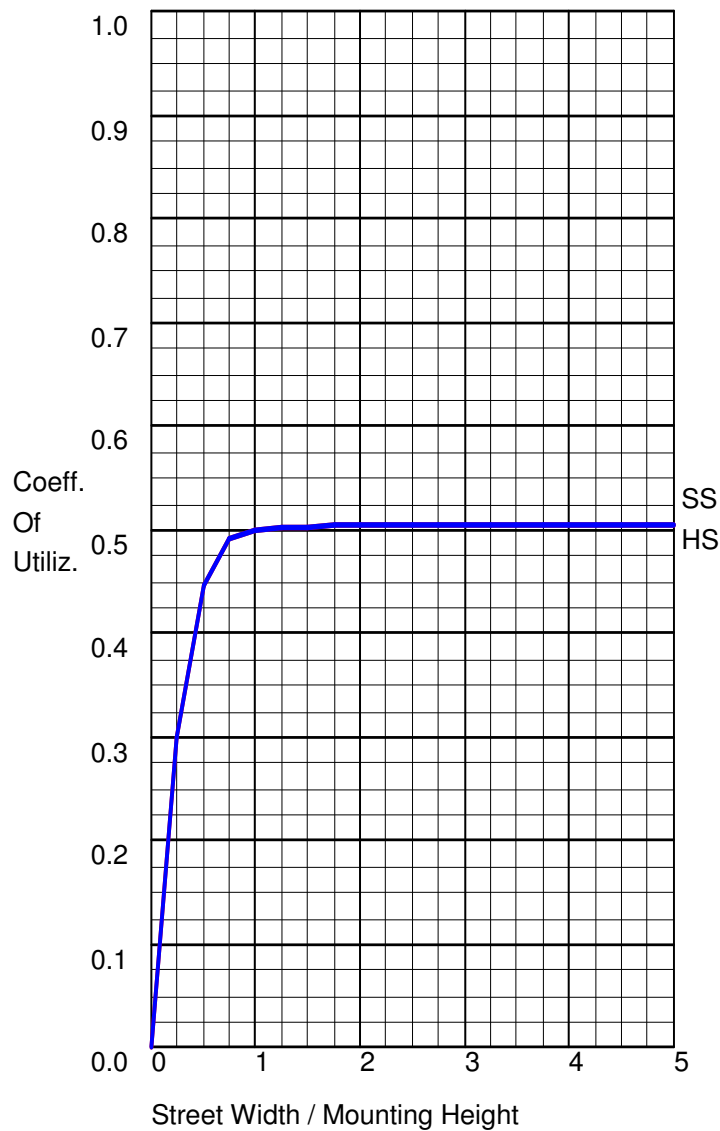
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-940-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L20-940-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

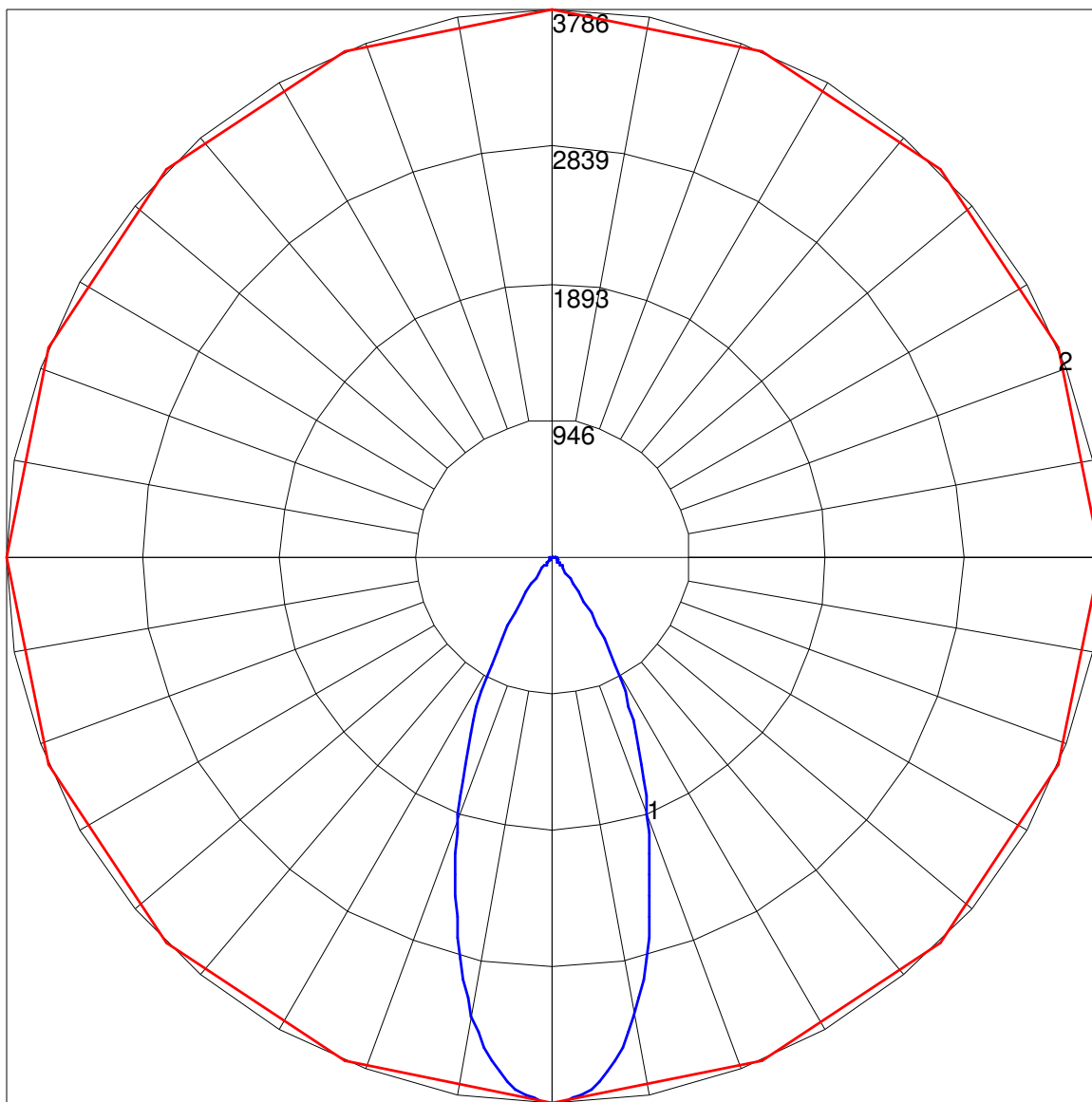
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

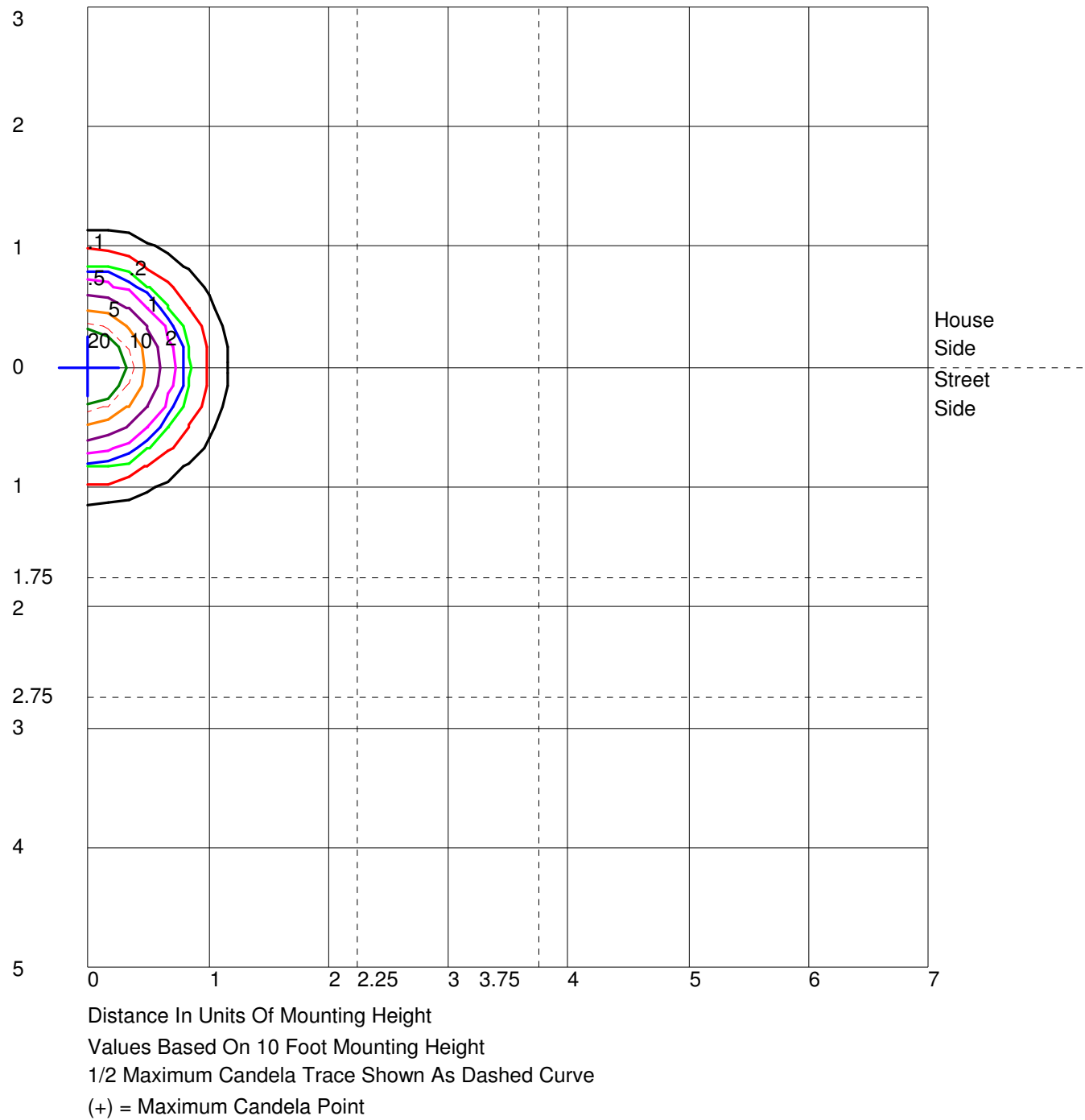
	Lumens	Percent Of Luminaire
Downward Street Side	994.6	50.0
Downward House Side	994.6	50.0
Downward Total	1989.2	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1989.4	100.0

POLAR GRAPH

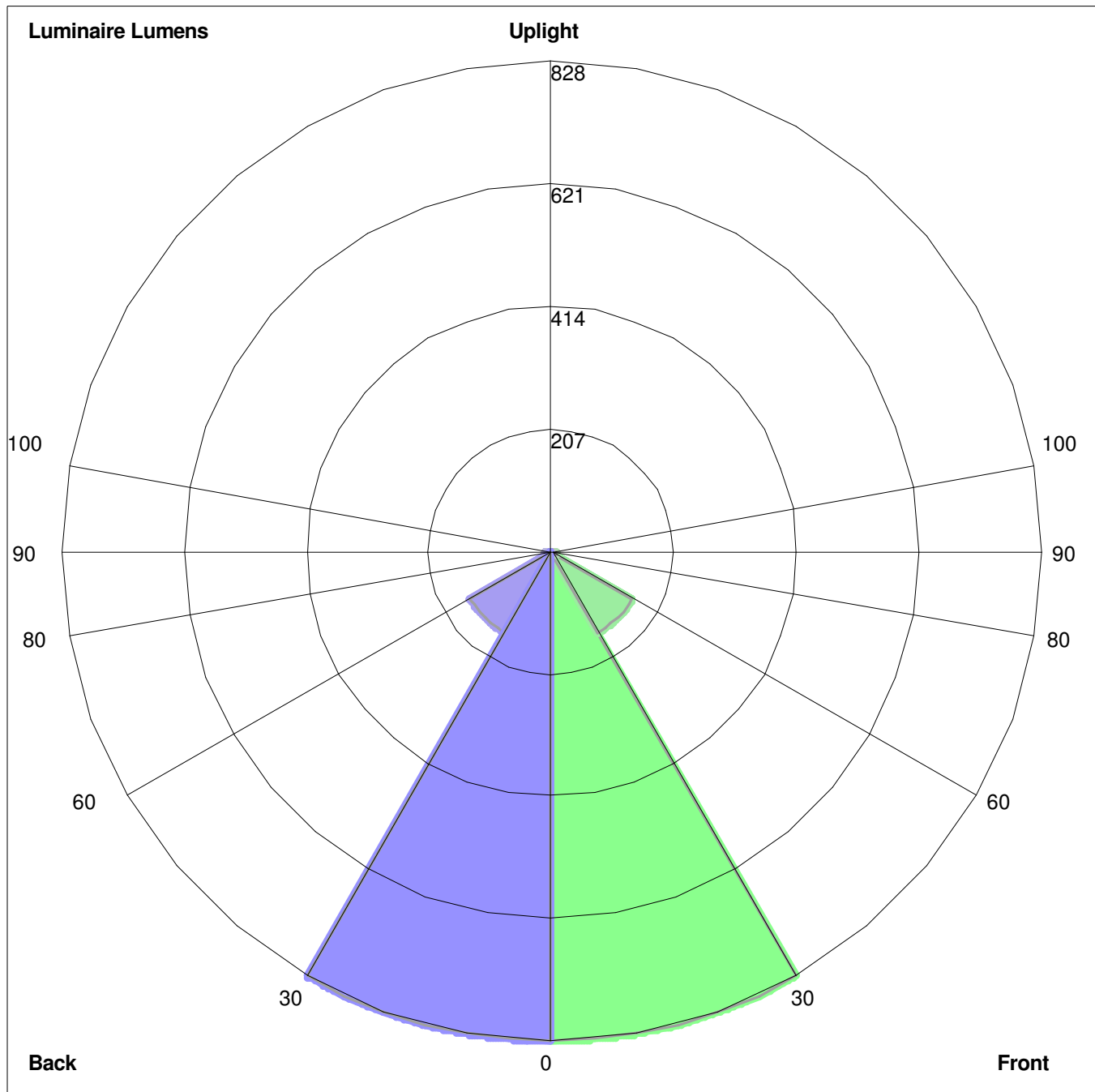


Maximum Candela = 3785.61 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=827.5, Medium=157.8, High=8.9, Very High=0.5
Back: Low=827.5, Medium=157.8, High=8.9, Very High=0.5
Uplight: Low=0.3, High=0.0

BUG Rating : B2-U1-G0