

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-830-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-L25-830-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	2590
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3264.261
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	3264.261
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.407 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.849 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-830-XXX-DIM-UNV-W-XXX_.IES_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1002.3	N.A.	38.7
FM - Front-Medium (30-60)	279.8	N.A.	10.8
FH - Front-High (60-80)	12.0	N.A.	0.5
FVH - Front-Very High (80-90)	0.6	N.A.	0.0
BL - Back-Low (0-30)	1002.3	N.A.	38.7
BM - Back-Medium (30-60)	279.8	N.A.	10.8
BH - Back-High (60-80)	12.0	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	2589.8	N.A.	100.0
BUG Rating	B3-U1-G0		

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-830-XXX-DIM-UNV-W-XXX_.IES_.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	3258.841	3258.841	3258.841	3258.841	3258.841
1	3253.634	3253.479	3253.992	3257.903	3261.619
2	3256.460	3255.493	3252.260	3258.609	3264.261
3	3253.402	3249.318	3252.318	3250.305	3257.293
4	3248.543	3245.262	3243.859	3247.624	3254.225
5	3244.159	3242.843	3239.910	3242.562	3246.511
6	3234.974	3236.687	3228.934	3234.887	3231.577
7	3222.024	3227.386	3221.308	3221.250	3217.591
8	3209.897	3208.793	3206.257	3206.732	3207.554
9	3194.353	3190.636	3187.616	3189.223	3188.004
10	3164.939	3165.878	3163.962	3162.065	3160.913
11	3128.722	3131.519	3127.657	3129.216	3125.334
12	3086.436	3083.639	3082.487	3087.172	3085.333
13	3031.345	3030.455	3033.020	3038.295	3037.975
14	2975.248	2970.602	2972.151	2974.309	2980.349
15	2905.330	2902.929	2899.164	2907.788	2904.536
16	2830.678	2823.671	2820.651	2826.846	2831.143
17	2747.742	2739.690	2740.212	2739.844	2749.533
18	2657.121	2652.969	2653.676	2648.169	2658.709
19	2561.545	2558.041	2557.654	2558.515	2564.536
20	2464.468	2464.071	2461.565	2462.871	2470.972
21	2370.673	2366.540	2365.456	2368.727	2371.399
22	2268.215	2272.425	2269.725	2272.444	2275.687
23	2174.032	2172.513	2172.367	2174.632	2182.346
24	2075.533	2073.674	2075.784	2080.498	2083.218
25	1976.065	1975.456	1977.275	1983.228	1984.205
26	1874.053	1874.546	1878.921	1883.760	1883.267
27	1761.868	1764.723	1774.595	1778.960	1774.586
28	1645.908	1646.528	1660.223	1664.733	1658.084
29	1520.860	1524.461	1536.540	1539.550	1535.098
30	1388.428	1391.351	1404.349	1407.340	1401.300
31	1245.368	1252.153	1260.515	1266.254	1263.941
32	1102.289	1109.887	1115.297	1121.859	1119.952
33	957.642	962.288	970.030	976.331	976.254
34	812.985	821.231	826.603	835.652	838.663
35	678.230	687.163	689.912	698.787	703.926
36	556.986	563.625	566.354	572.510	581.560
37	448.324	453.521	456.192	461.699	471.388
38	360.916	359.280	364.662	370.420	375.569
39	281.658	286.255	287.552	293.224	300.057
40	221.466	226.064	229.345	234.087	240.291
41	174.844	178.590	182.442	191.385	199.351
42	140.359	143.098	149.554	154.355	158.594
43	117.440	118.466	122.696	128.174	131.571
44	96.999	98.906	102.961	108.885	110.811
45	83.101	84.756	88.288	92.683	94.638
46	72.716	74.071	77.129	80.575	81.881
47	64.702	65.970	68.370	71.157	72.299
48	58.652	59.678	61.527	63.850	65.060
49	53.842	54.704	56.262	58.072	59.204
50	49.913	50.639	51.974	53.455	54.375
51	46.593	47.193	48.412	49.642	50.416
52	43.486	44.038	45.073	46.099	46.719

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-830-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

53	40.670	41.134	41.996	42.828	43.331
54	38.076	38.502	39.227	39.866	40.292
55	35.733	36.053	36.721	37.224	37.543
56	33.459	33.769	34.330	34.756	34.950
57	31.310	31.552	32.007	32.385	32.511
58	29.210	29.413	29.791	30.110	30.217
59	27.168	27.323	27.613	27.913	28.010
60	25.155	25.290	25.542	25.774	25.881
61	23.267	23.374	23.567	23.761	23.819
62	21.506	21.564	21.699	21.864	21.912
63	19.841	19.890	19.977	20.103	20.170
64	18.302	18.341	18.399	18.506	18.573
65	16.918	16.957	16.967	17.044	17.151
66	15.621	15.660	15.650	15.718	15.786
67	14.450	14.479	14.450	14.499	14.557
68	13.366	13.376	13.357	13.357	13.424
69	12.350	12.340	12.311	12.292	12.340
70	11.382	11.363	11.305	11.266	11.305
71	10.443	10.405	10.327	10.269	10.288
72	9.514	9.475	9.388	9.301	9.340
73	8.614	8.546	8.430	8.343	8.391
74	7.685	7.607	7.491	7.394	7.453
75	6.688	6.630	6.504	6.436	6.475
76	5.594	5.546	5.410	5.381	5.401
77	4.355	4.336	4.201	4.181	4.201
78	2.942	2.942	2.836	2.778	2.797
79	2.042	2.062	2.013	2.003	1.974
80	1.849	1.839	1.829	1.820	1.810
81	1.723	1.723	1.723	1.713	1.713
82	1.626	1.616	1.626	1.616	1.616
83	1.510	1.510	1.520	1.510	1.510
84	1.394	1.384	1.403	1.384	1.384
85	1.258	1.249	1.258	1.249	1.249
86	1.103	1.103	1.103	1.094	1.094
87	0.929	0.919	0.929	0.919	0.910
88	0.736	0.726	0.736	0.726	0.716
89	0.532	0.523	0.523	0.503	0.503
90	0.407	0.387	0.387	0.358	0.339
91	0.377	0.358	0.368	0.348	0.339
92	0.377	0.358	0.368	0.339	0.339
93	0.377	0.368	0.368	0.348	0.339
94	0.377	0.368	0.368	0.348	0.348
95	0.387	0.368	0.368	0.348	0.348
96	0.387	0.368	0.368	0.348	0.348
97	0.387	0.377	0.377	0.358	0.358
98	0.387	0.377	0.387	0.358	0.368
99	0.397	0.387	0.387	0.368	0.368
100	0.397	0.387	0.397	0.368	0.377
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

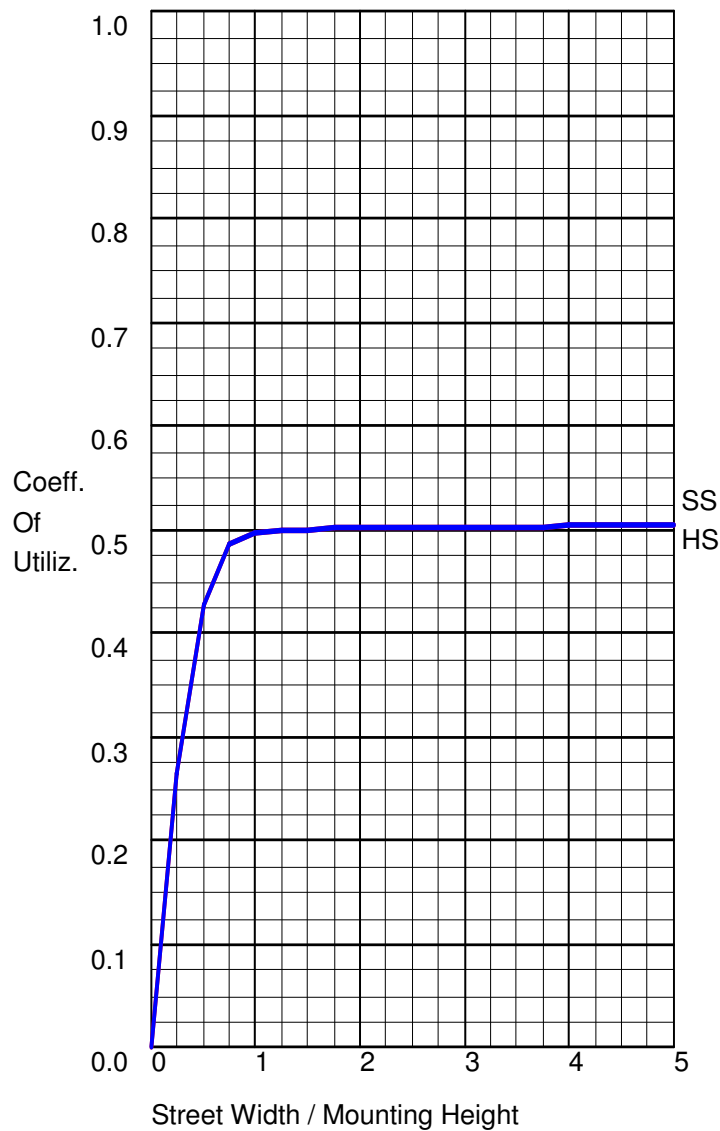
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-830-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

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-L25-830-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

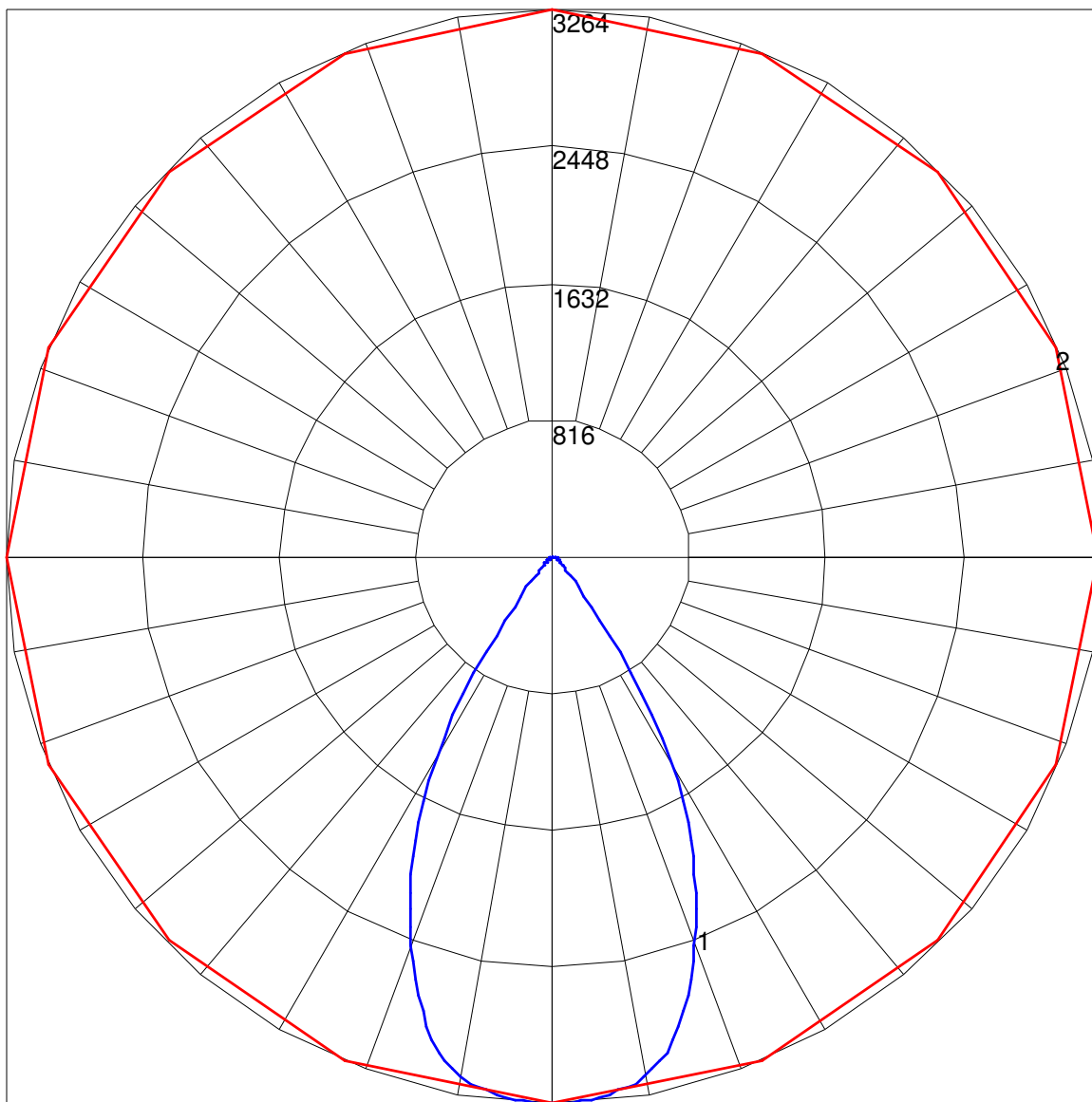
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1294.7	50.0
Downward House Side	1294.7	50.0
Downward Total	2589.4	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2589.8	100.0

POLAR GRAPH



Maximum Candela = 3264.261 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.)

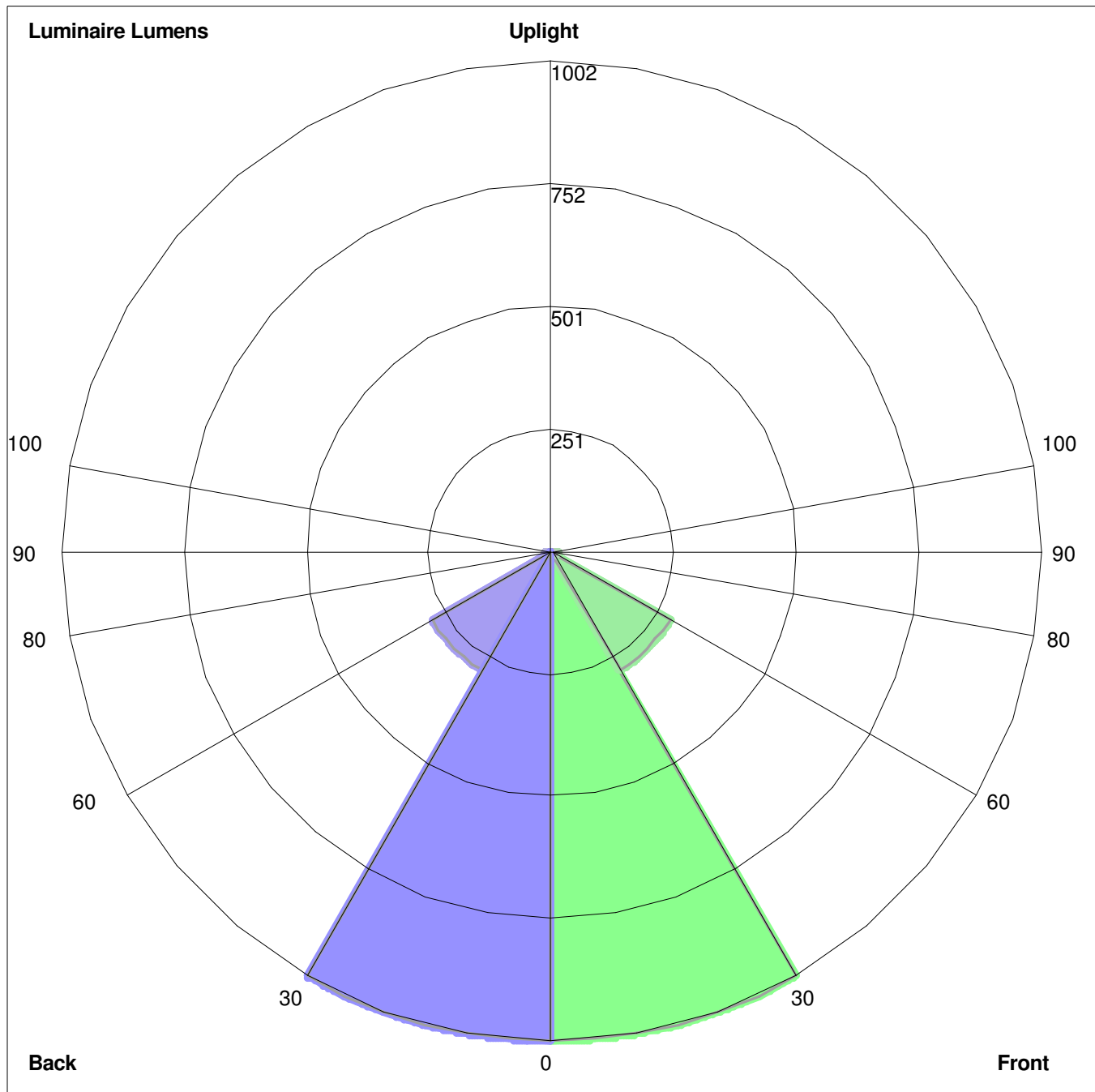
Distance In Units Of Mounting Height

Values Based On 10 Foot Mounting Height

1/2 Maximum Candela Trace Shown As Dashed Curve

(+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1002.3, Medium=279.8, High=12.0, Very High=0.6
Back: Low=1002.3, Medium=279.8, High=12.0, Very High=0.6
Uplight: Low=0.4, High=0.0

BUG Rating : B3-U1-G0