

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-940-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-L25-940-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	2512
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3166.334
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	3166.334
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.394 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.793 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-940-XXX-DIM-UNV-W-XXX_.IES_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	972.2	N.A.	38.7
FM - Front-Medium (30-60)	271.4	N.A.	10.8
FH - Front-High (60-80)	11.6	N.A.	0.5
FVH - Front-Very High (80-90)	0.6	N.A.	0.0
BL - Back-Low (0-30)	972.2	N.A.	38.7
BM - Back-Medium (30-60)	271.4	N.A.	10.8
BH - Back-High (60-80)	11.6	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	2512.0	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	3161.076	3161.076	3161.076	3161.076	3161.076
1	3156.025	3155.875	3156.373	3160.166	3163.771
2	3158.767	3157.828	3154.692	3160.851	3166.334
3	3155.800	3151.838	3154.748	3152.796	3159.574
4	3151.087	3147.904	3146.543	3150.195	3156.598
5	3146.834	3145.557	3142.713	3145.285	3149.116
6	3137.925	3139.586	3132.066	3137.840	3134.629
7	3125.363	3130.564	3124.668	3124.612	3121.063
8	3113.600	3112.529	3110.070	3110.530	3111.328
9	3098.522	3094.917	3091.988	3093.546	3092.363
10	3069.991	3070.902	3069.043	3067.203	3066.086
11	3034.860	3037.574	3033.828	3035.339	3031.574
12	2993.843	2991.130	2990.013	2994.556	2992.773
13	2940.405	2939.541	2942.029	2947.146	2946.836
14	2885.991	2881.484	2882.986	2885.080	2890.938
15	2818.170	2815.841	2812.189	2820.554	2817.400
16	2745.758	2738.961	2736.032	2742.040	2746.209
17	2665.310	2657.499	2658.006	2657.649	2667.047
18	2577.408	2573.380	2574.065	2568.724	2578.947
19	2484.699	2481.300	2480.924	2481.760	2487.600
20	2390.534	2390.149	2387.718	2388.985	2396.843
21	2299.553	2295.544	2294.492	2297.665	2300.257
22	2200.168	2204.252	2201.633	2204.271	2207.416
23	2108.811	2107.337	2107.196	2109.393	2116.876
24	2013.267	2011.464	2013.511	2018.083	2020.721
25	1916.784	1916.192	1917.957	1923.731	1924.679
26	1817.831	1818.310	1822.554	1827.248	1826.769
27	1709.012	1711.781	1721.357	1725.591	1721.348
28	1596.531	1597.132	1610.416	1614.791	1608.341
29	1475.235	1478.727	1490.444	1493.363	1489.045
30	1346.775	1349.610	1362.219	1365.120	1359.261
31	1208.007	1214.588	1222.700	1228.267	1226.023
32	1069.220	1076.590	1081.838	1088.203	1086.354
33	928.913	933.419	940.930	947.041	946.966
34	788.596	796.594	801.805	810.583	813.503
35	657.883	666.548	669.214	677.823	682.809
36	540.276	546.716	549.364	555.335	564.113
37	434.874	439.915	442.507	447.848	457.246
38	350.088	348.502	353.722	359.308	364.302
39	273.208	277.667	278.925	284.427	291.055
40	214.822	219.282	222.464	227.065	233.082
41	169.599	173.232	176.969	185.644	193.370
42	136.149	138.806	145.067	149.724	153.836
43	113.917	114.912	119.015	124.329	127.624
44	94.089	95.939	99.872	105.618	107.486
45	80.608	82.213	85.640	89.902	91.798
46	70.534	71.848	74.815	78.157	79.425
47	62.761	63.990	66.319	69.023	70.130
48	56.893	57.888	59.681	61.934	63.108
49	52.227	53.062	54.574	56.330	57.428
50	48.415	49.119	50.415	51.851	52.743
51	45.195	45.777	46.960	48.152	48.903
52	42.181	42.717	43.721	44.716	45.317

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-940-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

53	39.449	39.900	40.736	41.543	42.031
54	36.933	37.347	38.051	38.670	39.083
55	34.661	34.971	35.619	36.107	36.417
56	32.455	32.756	33.300	33.713	33.901
57	30.371	30.606	31.047	31.413	31.535
58	28.334	28.531	28.897	29.207	29.310
59	26.353	26.503	26.785	27.076	27.170
60	24.400	24.532	24.776	25.001	25.104
61	22.569	22.673	22.860	23.048	23.105
62	20.861	20.917	21.048	21.208	21.255
63	19.246	19.293	19.377	19.499	19.565
64	17.753	17.791	17.847	17.950	18.016
65	16.411	16.448	16.458	16.533	16.636
66	15.153	15.190	15.181	15.247	15.312
67	14.017	14.045	14.017	14.064	14.120
68	12.965	12.975	12.956	12.956	13.022
69	11.979	11.970	11.942	11.923	11.970
70	11.041	11.022	10.965	10.928	10.965
71	10.130	10.092	10.017	9.961	9.980
72	9.229	9.191	9.107	9.022	9.060
73	8.356	8.290	8.177	8.093	8.140
74	7.454	7.379	7.267	7.173	7.229
75	6.487	6.431	6.309	6.243	6.281
76	5.426	5.379	5.248	5.220	5.239
77	4.225	4.206	4.075	4.056	4.075
78	2.854	2.854	2.751	2.694	2.713
79	1.981	2.000	1.953	1.943	1.915
80	1.793	1.784	1.774	1.765	1.756
81	1.671	1.671	1.671	1.662	1.662
82	1.577	1.568	1.577	1.568	1.568
83	1.465	1.465	1.474	1.465	1.465
84	1.352	1.343	1.361	1.343	1.343
85	1.220	1.211	1.220	1.211	1.211
86	1.070	1.070	1.070	1.061	1.061
87	0.901	0.892	0.901	0.892	0.882
88	0.714	0.704	0.714	0.704	0.695
89	0.516	0.507	0.507	0.488	0.488
90	0.394	0.376	0.376	0.347	0.329
91	0.366	0.347	0.357	0.338	0.329
92	0.366	0.347	0.357	0.329	0.329
93	0.366	0.357	0.357	0.338	0.329
94	0.366	0.357	0.357	0.338	0.338
95	0.376	0.357	0.357	0.338	0.338
96	0.376	0.357	0.357	0.338	0.338
97	0.376	0.366	0.366	0.347	0.347
98	0.376	0.366	0.376	0.347	0.357
99	0.385	0.376	0.376	0.357	0.357
100	0.385	0.376	0.385	0.357	0.366
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

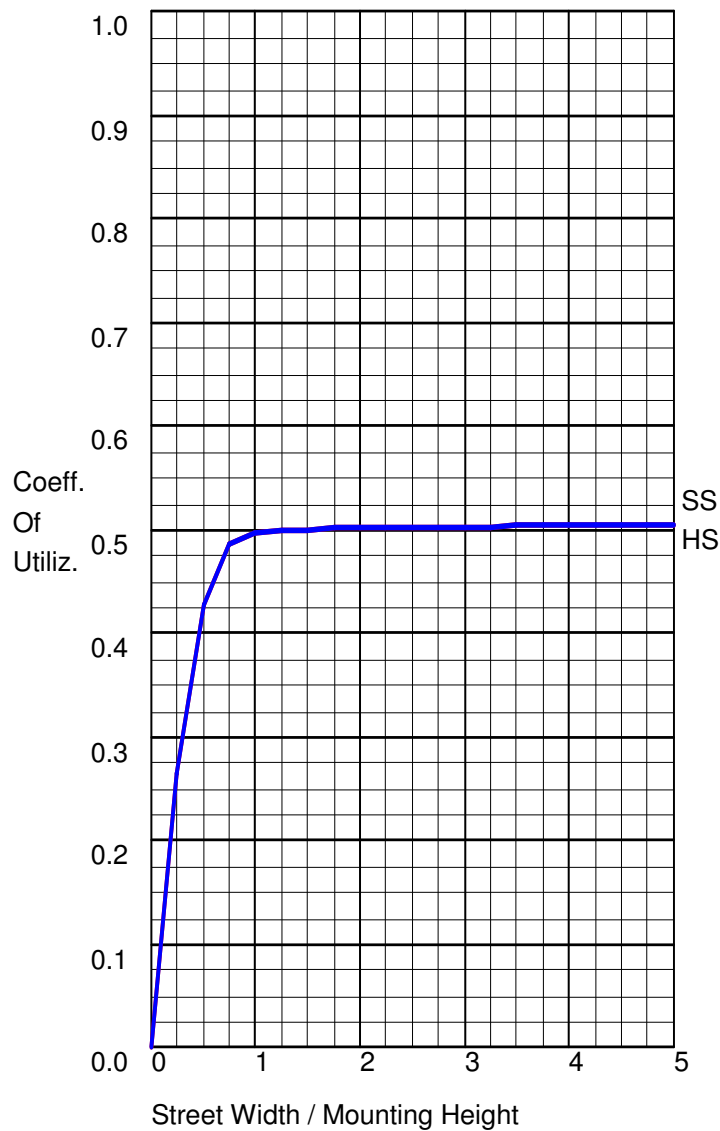
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-940-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

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-L25-940-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

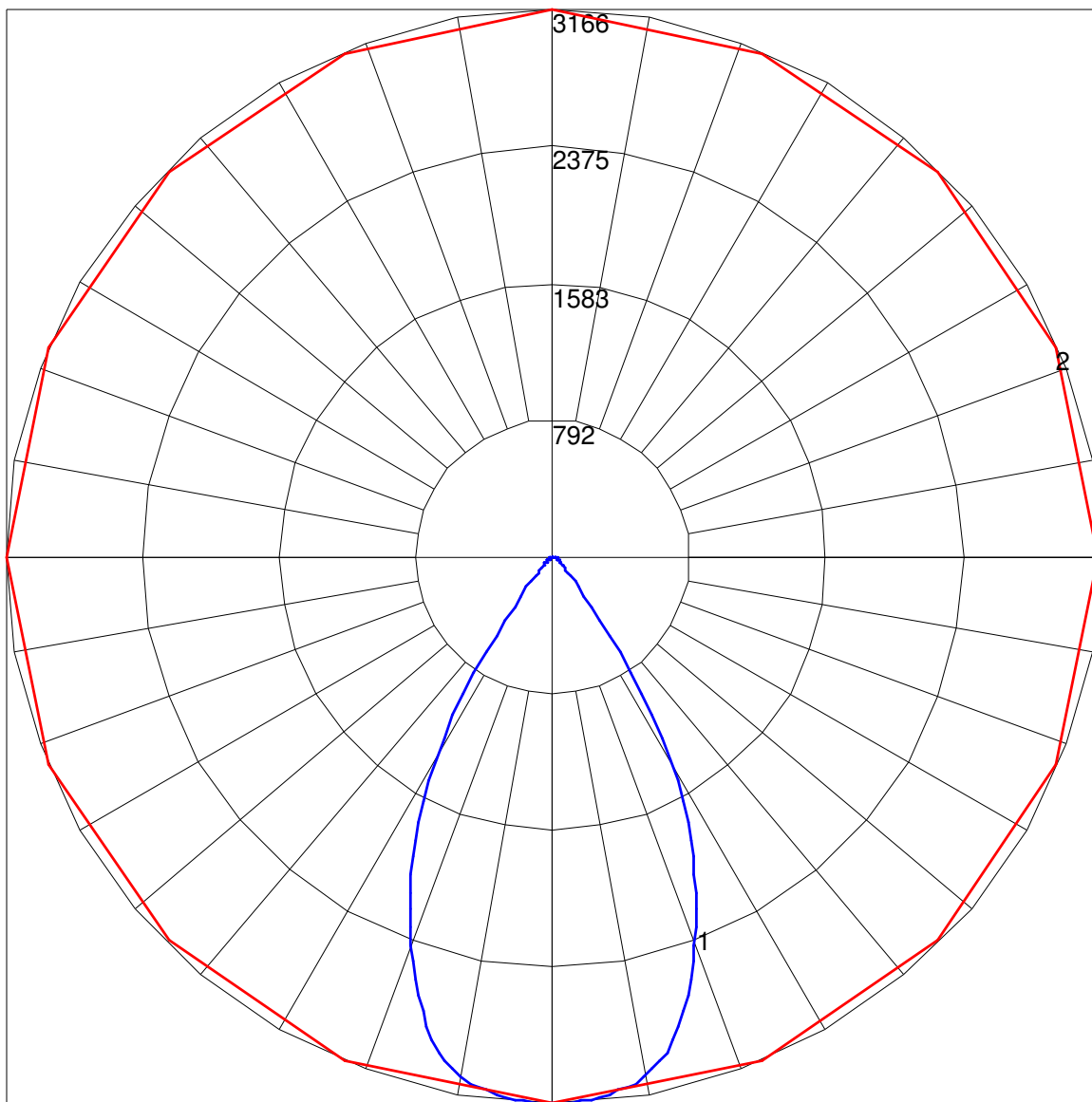
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1255.9	50.0
Downward House Side	1255.9	50.0
Downward Total	2511.8	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2512.2	100.0

POLAR GRAPH



Maximum Candela = 3166.334 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.)

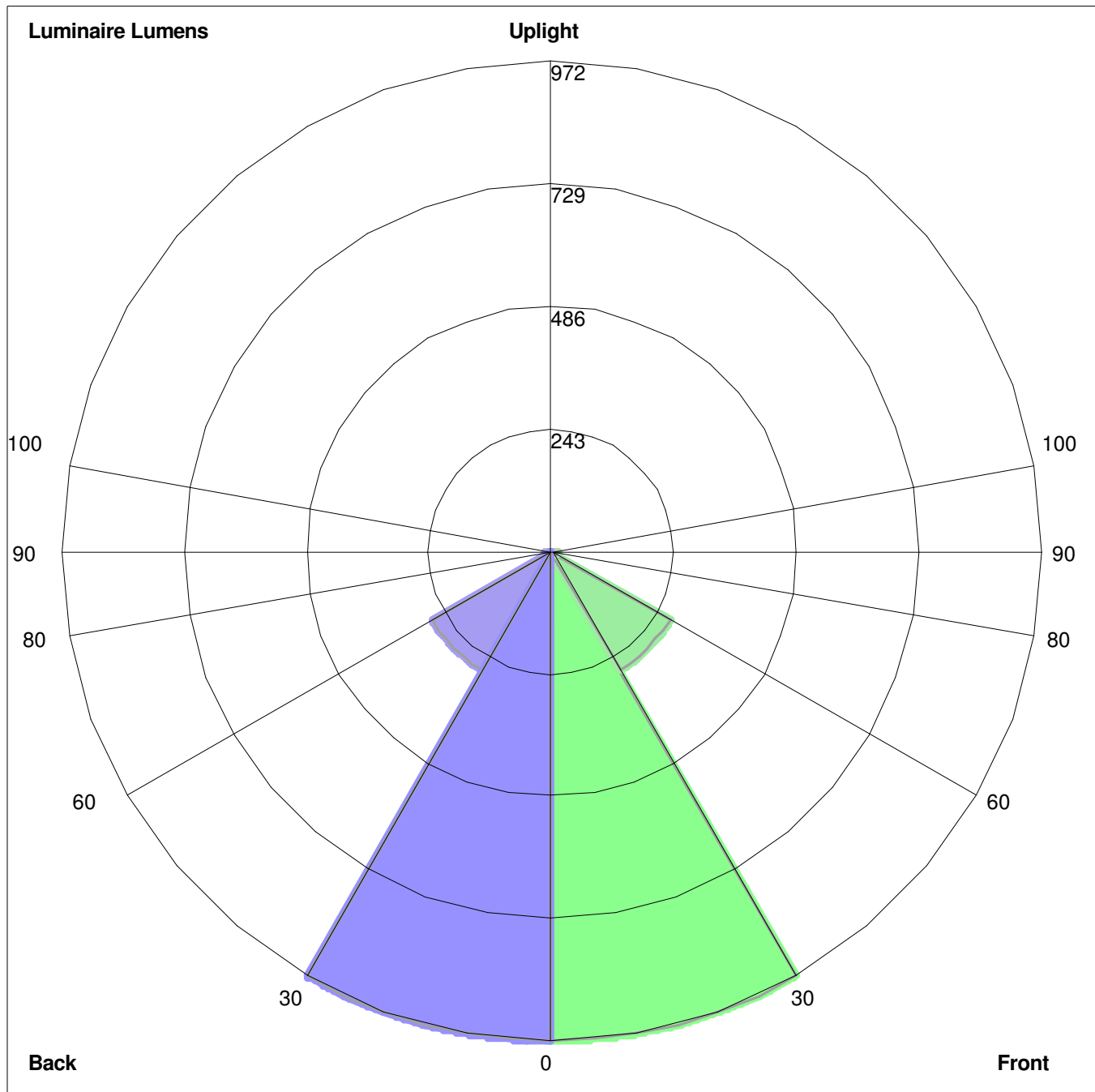
Distance In Units Of Mounting Height

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=972.2, Medium=271.4, High=11.6, Very High=0.6
Back: Low=972.2, Medium=271.4, High=11.6, Very High=0.6
Uplight: Low=0.4, High=0.0

BUG Rating : B2-U1-G0