

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-850-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-L25-850-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	2521
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	4796.143
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	4796.143
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.357 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.676 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1048.4	N.A.	41.6
FM - Front-Medium (30-60)	199.9	N.A.	7.9
FH - Front-High (60-80)	11.2	N.A.	0.4
FVH - Front-Very High (80-90)	0.6	N.A.	0.0
BL - Back-Low (0-30)	1048.4	N.A.	41.6
BM - Back-Medium (30-60)	199.9	N.A.	7.9
BH - Back-High (60-80)	11.2	N.A.	0.4
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	2520.6	N.A.	100.0
BUG Rating	B3-U1-G0		

IES ROAD REPORT
PHOTOMETRIC FILENAME : W4CR-XX-L25-850-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	4796.143	4796.143	4796.143	4796.143	4796.143
1	4788.742	4789.878	4786.691	4785.601	4786.031
2	4768.602	4775.315	4770.250	4768.510	4762.557
3	4733.578	4737.278	4732.003	4733.358	4731.407
4	4684.898	4694.945	4685.832	4686.336	4684.458
5	4635.577	4631.355	4624.248	4622.617	4619.714
6	4558.761	4560.969	4551.636	4546.497	4545.792
7	4474.380	4471.531	4467.108	4457.720	4450.054
8	4367.211	4371.965	4360.672	4351.146	4348.710
9	4245.187	4249.372	4242.705	4235.616	4232.346
10	4108.022	4109.927	4106.823	4104.212	4097.581
11	3959.730	3959.235	3957.339	3952.897	3947.622
12	3796.133	3800.007	3789.419	3791.718	3792.671
13	3625.456	3625.731	3615.262	3626.271	3629.220
14	3442.964	3447.361	3443.496	3452.984	3456.437
15	3255.792	3261.004	3259.721	3272.709	3276.043
16	3072.641	3075.187	3075.205	3089.759	3099.843
17	2892.988	2895.901	2897.146	2909.090	2921.436
18	2709.104	2717.604	2719.417	2731.470	2747.718
19	2541.404	2544.152	2552.047	2563.825	2575.888
20	2374.730	2384.136	2390.080	2401.611	2417.035
21	2220.457	2227.133	2236.082	2246.734	2260.884
22	2074.692	2082.596	2088.659	2102.260	2114.991
23	1936.749	1941.347	1948.308	1962.935	1976.545
24	1807.224	1809.339	1818.068	1831.806	1840.122
25	1681.746	1684.521	1694.340	1707.190	1713.271
26	1559.154	1565.968	1574.761	1586.255	1591.128
27	1438.787	1443.330	1458.103	1469.341	1468.764
28	1318.026	1323.055	1339.980	1347.042	1346.749
29	1196.093	1208.018	1216.747	1224.074	1224.239
30	1071.660	1080.892	1091.443	1098.413	1096.572
31	946.302	952.640	961.020	966.964	965.719
32	821.593	827.391	833.747	838.519	837.548
33	697.004	702.372	707.803	711.622	713.710
34	577.270	584.258	587.445	591.777	594.415
35	468.086	474.488	476.356	479.141	483.574
36	381.708	377.733	380.004	381.103	386.993
37	298.646	294.194	296.127	294.414	303.051
38	223.661	227.197	225.035	226.812	233.828
39	171.822	175.201	172.719	178.608	188.363
40	131.843	133.821	135.781	137.283	143.053
41	106.482	104.797	106.894	110.567	115.677
42	83.823	85.196	88.961	92.478	96.031
43	70.460	71.907	74.682	78.126	81.716
44	61.649	62.803	65.248	68.426	71.220
45	55.430	56.382	58.636	61.145	63.334
46	51.061	51.895	53.836	55.787	57.436
47	47.883	48.634	50.228	51.757	53.122
48	45.465	46.143	47.462	48.707	49.861
49	43.597	44.155	45.245	46.234	47.297
50	41.975	42.406	43.368	44.192	45.126
51	40.437	40.794	41.664	42.360	43.203
52	38.825	39.136	39.851	40.418	41.105

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

53	37.112	37.396	37.982	38.413	38.980
54	35.335	35.573	36.068	36.416	36.865
55	33.494	33.714	34.135	34.392	34.758
56	31.562	31.763	32.102	32.359	32.624
57	29.593	29.739	30.005	30.261	30.472
58	27.596	27.724	27.935	28.182	28.393
59	25.608	25.709	25.874	26.112	26.304
60	23.648	23.749	23.887	24.088	24.280
61	21.807	21.908	21.972	22.174	22.339
62	20.095	20.168	20.223	20.379	20.544
63	18.510	18.574	18.602	18.730	18.877
64	17.072	17.118	17.136	17.228	17.384
65	15.790	15.827	15.808	15.891	16.056
66	14.572	14.627	14.581	14.673	14.819
67	13.509	13.546	13.500	13.574	13.702
68	12.529	12.539	12.493	12.548	12.676
69	11.614	11.595	11.559	11.577	11.705
70	10.743	10.698	10.652	10.661	10.762
71	9.892	9.837	9.773	9.754	9.855
72	9.049	9.003	8.912	8.875	8.985
73	8.206	8.151	8.051	7.996	8.124
74	7.336	7.281	7.162	7.107	7.226
75	6.393	6.365	6.228	6.182	6.283
76	5.321	5.303	5.166	5.156	5.230
77	4.131	4.112	3.957	3.948	4.012
78	2.757	2.757	2.619	2.546	2.592
79	1.850	1.878	1.823	1.813	1.804
80	1.676	1.667	1.658	1.639	1.639
81	1.566	1.566	1.557	1.548	1.548
82	1.475	1.465	1.475	1.465	1.465
83	1.374	1.365	1.374	1.365	1.374
84	1.264	1.255	1.264	1.255	1.264
85	1.136	1.136	1.136	1.136	1.136
86	0.989	0.989	0.998	0.989	0.998
87	0.843	0.833	0.843	0.824	0.824
88	0.659	0.659	0.659	0.650	0.659
89	0.476	0.467	0.476	0.458	0.458
90	0.357	0.348	0.348	0.321	0.302
91	0.330	0.330	0.330	0.302	0.302
92	0.330	0.330	0.330	0.302	0.302
93	0.339	0.330	0.330	0.311	0.302
94	0.339	0.330	0.339	0.311	0.311
95	0.339	0.330	0.339	0.311	0.321
96	0.339	0.330	0.339	0.321	0.321
97	0.348	0.330	0.339	0.321	0.321
98	0.348	0.339	0.339	0.321	0.330
99	0.357	0.348	0.348	0.330	0.339
100	0.357	0.357	0.348	0.339	0.339
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-M-XXX_.IES

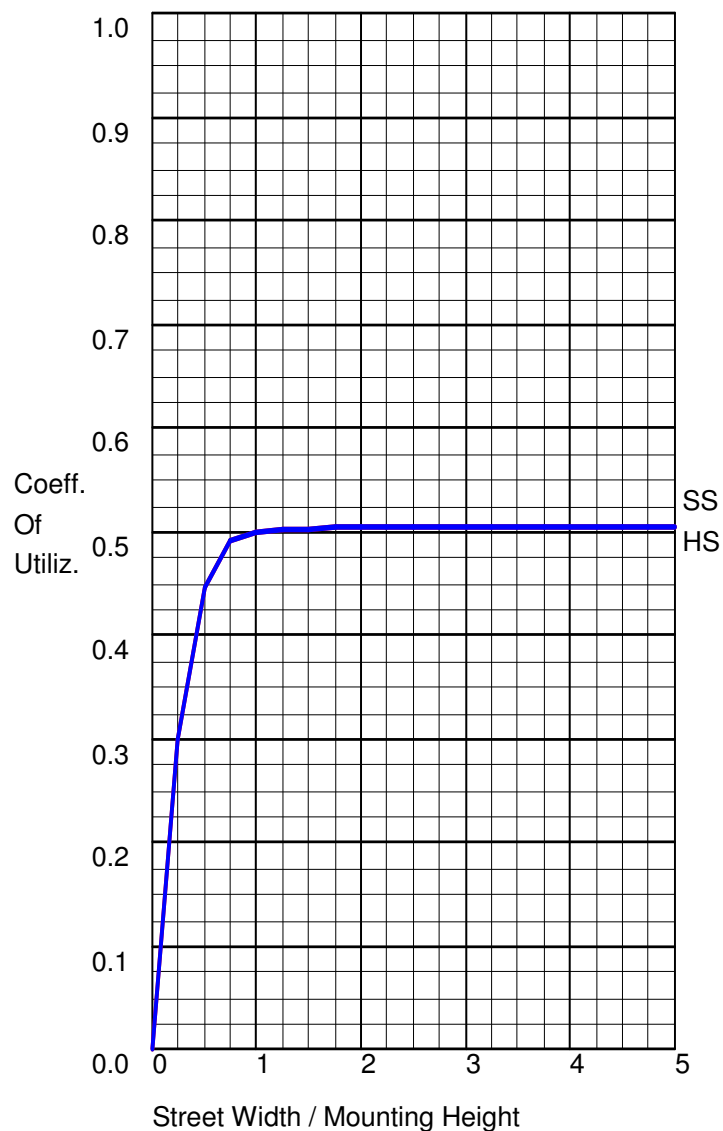
CANDELA TABULATION - (Cont.)

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-L25-850-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

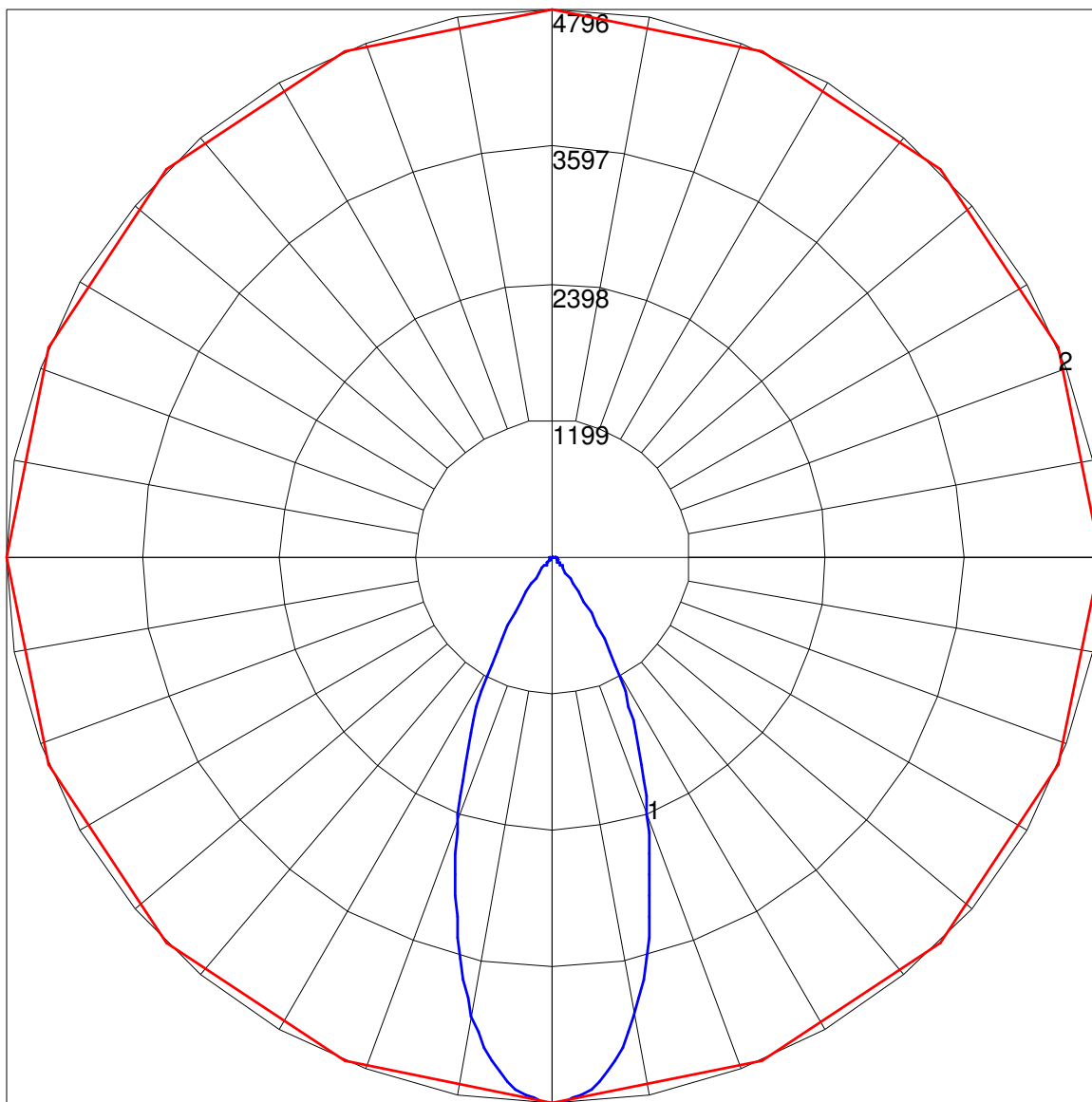
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

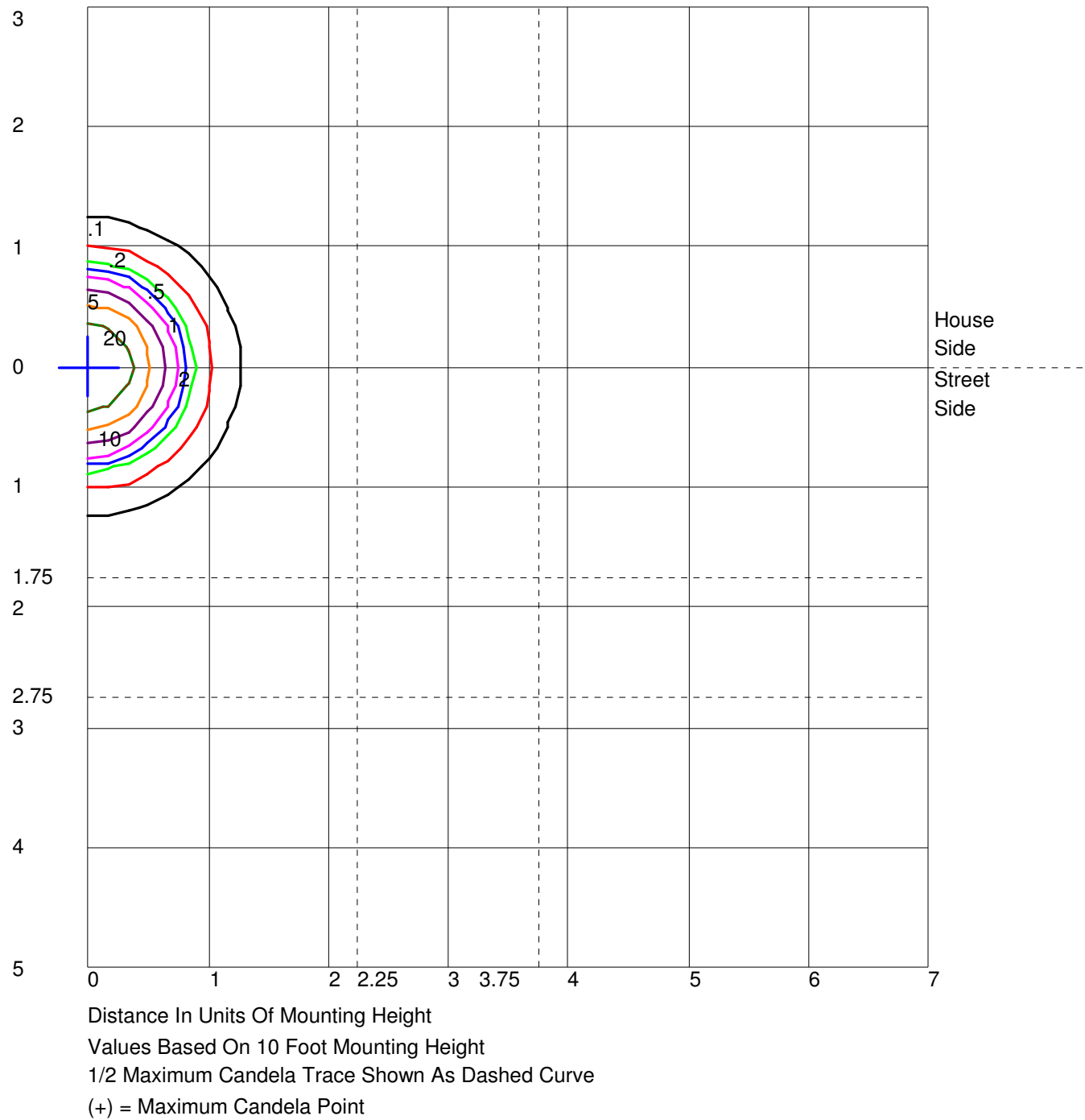
	Lumens	Percent Of Luminaire
Downward Street Side	1260.1	50.0
Downward House Side	1260.1	50.0
Downward Total	2520.2	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2520.6	100.0

POLAR GRAPH

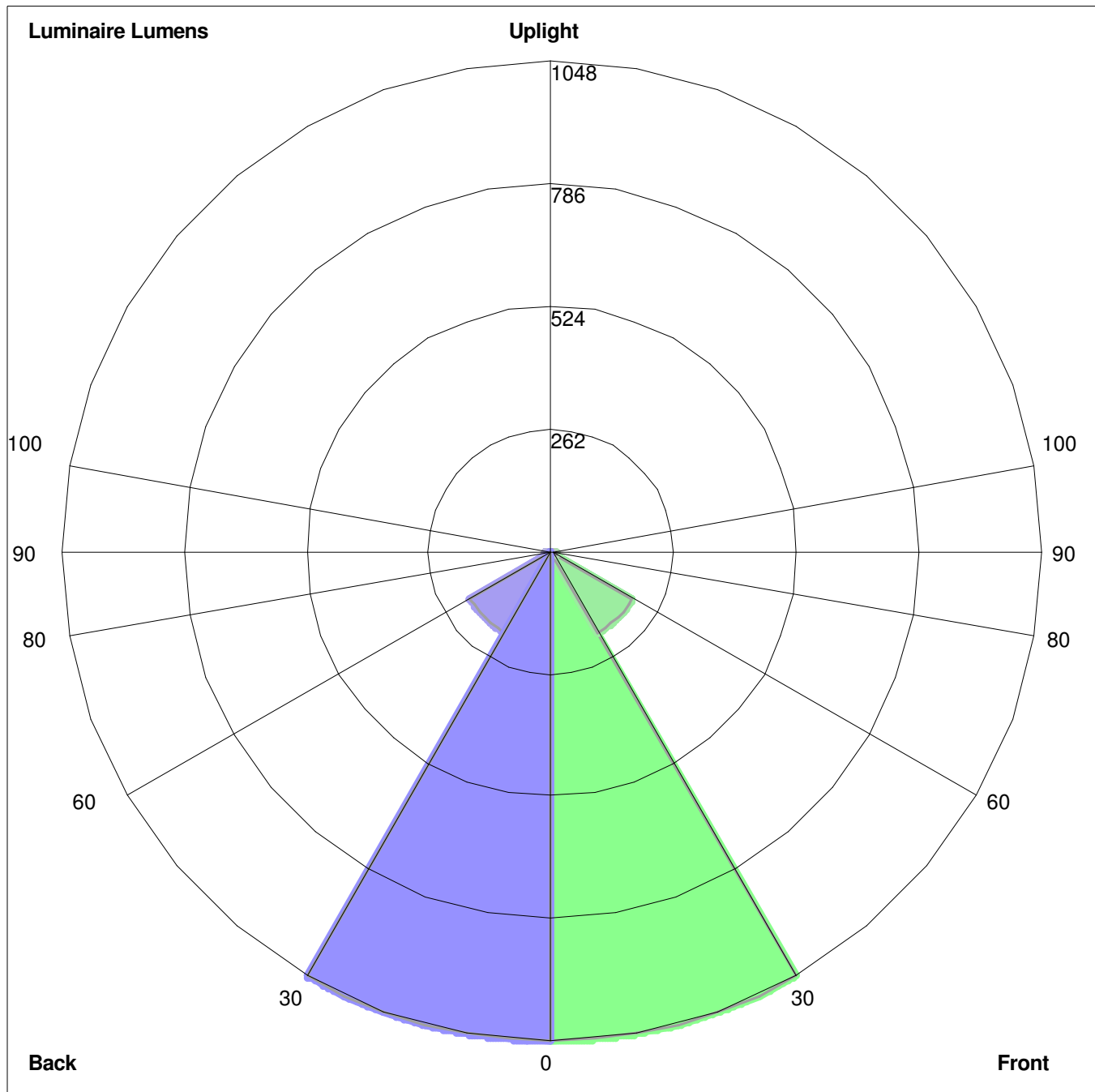


Maximum Candela = 4796.143 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1048.4, Medium=199.9, High=11.2, Very High=0.6
Back: Low=1048.4, Medium=199.9, High=11.2, Very High=0.6
Uplight: Low=0.4, High=0.0

BUG Rating : B3-U1-G0