

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-927-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-L20-927-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	1962
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2472.496
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	2472.496
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.308 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.4 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-927-XXX-DIM-UNV-W-XXX_.IES_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	759.2	N.A.	38.7
FM - Front-Medium (30-60)	211.9	N.A.	10.8
FH - Front-High (60-80)	9.1	N.A.	0.5
FVH - Front-Very High (80-90)	0.5	N.A.	0.0
BL - Back-Low (0-30)	759.2	N.A.	38.7
BM - Back-Medium (30-60)	211.9	N.A.	10.8
BH - Back-High (60-80)	9.1	N.A.	0.5
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	1961.7	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	2468.390	2468.390	2468.390	2468.390	2468.390
1	2464.446	2464.329	2464.717	2467.679	2470.494
2	2466.587	2465.854	2463.405	2468.214	2472.496
3	2464.270	2461.176	2463.449	2461.924	2467.217
4	2460.590	2458.105	2457.042	2459.894	2464.893
5	2457.269	2456.272	2454.051	2456.059	2459.050
6	2450.312	2451.609	2445.737	2450.246	2447.739
7	2440.503	2444.564	2439.960	2439.916	2437.145
8	2431.317	2430.481	2428.561	2428.920	2429.543
9	2419.544	2416.728	2414.441	2415.658	2414.734
10	2397.265	2397.976	2396.524	2395.087	2394.215
11	2369.832	2371.951	2369.026	2370.206	2367.266
12	2337.803	2335.684	2334.812	2338.360	2336.967
13	2296.075	2295.400	2297.343	2301.338	2301.096
14	2253.584	2250.065	2251.238	2252.873	2257.447
15	2200.625	2198.807	2195.955	2202.487	2200.024
16	2144.081	2138.773	2136.486	2141.178	2144.433
17	2081.261	2075.162	2075.558	2075.279	2082.617
18	2012.621	2009.476	2010.011	2005.840	2013.823
19	1940.227	1937.573	1937.280	1937.932	1942.492
20	1866.697	1866.396	1864.498	1865.487	1871.623
21	1795.652	1792.522	1791.701	1794.179	1796.202
22	1718.046	1721.235	1719.190	1721.250	1723.705
23	1646.708	1645.557	1645.447	1647.162	1653.005
24	1572.100	1570.692	1572.291	1575.861	1577.921
25	1496.759	1496.297	1497.676	1502.184	1502.925
26	1419.490	1419.864	1423.178	1426.843	1426.469
27	1334.516	1336.679	1344.157	1347.463	1344.149
28	1246.683	1247.153	1257.526	1260.942	1255.906
29	1151.967	1154.694	1163.843	1166.123	1162.751
30	1051.656	1053.870	1063.716	1065.981	1061.407
31	943.297	948.436	954.770	959.117	957.365
32	834.922	840.677	844.775	849.746	848.301
33	725.360	728.879	734.744	739.516	739.458
34	615.791	622.037	626.106	632.960	635.240
35	513.721	520.488	522.570	529.292	533.185
36	421.885	426.914	428.982	433.644	440.499
37	339.580	343.517	345.540	349.712	357.050
38	273.374	272.135	276.211	280.573	284.473
39	213.340	216.822	217.805	222.100	227.276
40	167.748	171.231	173.716	177.308	182.007
41	132.435	135.272	138.190	144.964	150.997
42	106.314	108.389	113.279	116.915	120.126
43	88.955	89.732	92.935	97.085	99.658
44	73.471	74.916	77.987	82.474	83.933
45	62.944	64.198	66.874	70.202	71.683
46	55.078	56.104	58.421	61.031	62.020
47	49.008	49.968	51.786	53.898	54.763
48	44.426	45.203	46.603	48.363	49.279
49	40.782	41.435	42.615	43.986	44.844
50	37.806	38.356	39.368	40.489	41.186
51	35.292	35.746	36.670	37.601	38.187
52	32.938	33.356	34.141	34.918	35.387

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-927-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

53	30.805	31.157	31.809	32.440	32.821
54	28.840	29.163	29.713	30.196	30.519
55	27.066	27.308	27.814	28.195	28.437
56	25.343	25.578	26.003	26.326	26.472
57	23.716	23.899	24.244	24.530	24.625
58	22.125	22.279	22.565	22.807	22.887
59	20.578	20.695	20.915	21.143	21.216
60	19.053	19.156	19.347	19.522	19.603
61	17.624	17.704	17.851	17.998	18.042
62	16.290	16.334	16.436	16.561	16.597
63	15.029	15.065	15.131	15.227	15.278
64	13.863	13.892	13.936	14.017	14.068
65	12.815	12.844	12.851	12.910	12.991
66	11.832	11.862	11.854	11.906	11.957
67	10.945	10.967	10.945	10.982	11.026
68	10.124	10.131	10.117	10.117	10.168
69	9.354	9.347	9.325	9.310	9.347
70	8.621	8.607	8.563	8.533	8.563
71	7.910	7.881	7.822	7.778	7.793
72	7.206	7.177	7.111	7.045	7.074
73	6.525	6.473	6.385	6.319	6.356
74	5.821	5.762	5.674	5.601	5.645
75	5.066	5.022	4.926	4.875	4.904
76	4.237	4.201	4.098	4.076	4.091
77	3.299	3.284	3.182	3.167	3.182
78	2.229	2.229	2.148	2.104	2.119
79	1.547	1.562	1.525	1.518	1.496
80	1.400	1.393	1.386	1.378	1.371
81	1.305	1.305	1.305	1.298	1.298
82	1.232	1.224	1.232	1.224	1.224
83	1.144	1.144	1.151	1.144	1.144
84	1.056	1.048	1.063	1.048	1.048
85	0.953	0.946	0.953	0.946	0.946
86	0.836	0.836	0.836	0.828	0.828
87	0.704	0.696	0.704	0.696	0.689
88	0.557	0.550	0.557	0.550	0.542
89	0.403	0.396	0.396	0.381	0.381
90	0.308	0.293	0.293	0.271	0.257
91	0.286	0.271	0.279	0.264	0.257
92	0.286	0.271	0.279	0.257	0.257
93	0.286	0.279	0.279	0.264	0.257
94	0.286	0.279	0.279	0.264	0.264
95	0.293	0.279	0.279	0.264	0.264
96	0.293	0.279	0.279	0.264	0.264
97	0.293	0.286	0.286	0.271	0.271
98	0.293	0.286	0.293	0.271	0.279
99	0.301	0.293	0.293	0.279	0.279
100	0.301	0.293	0.301	0.279	0.286
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

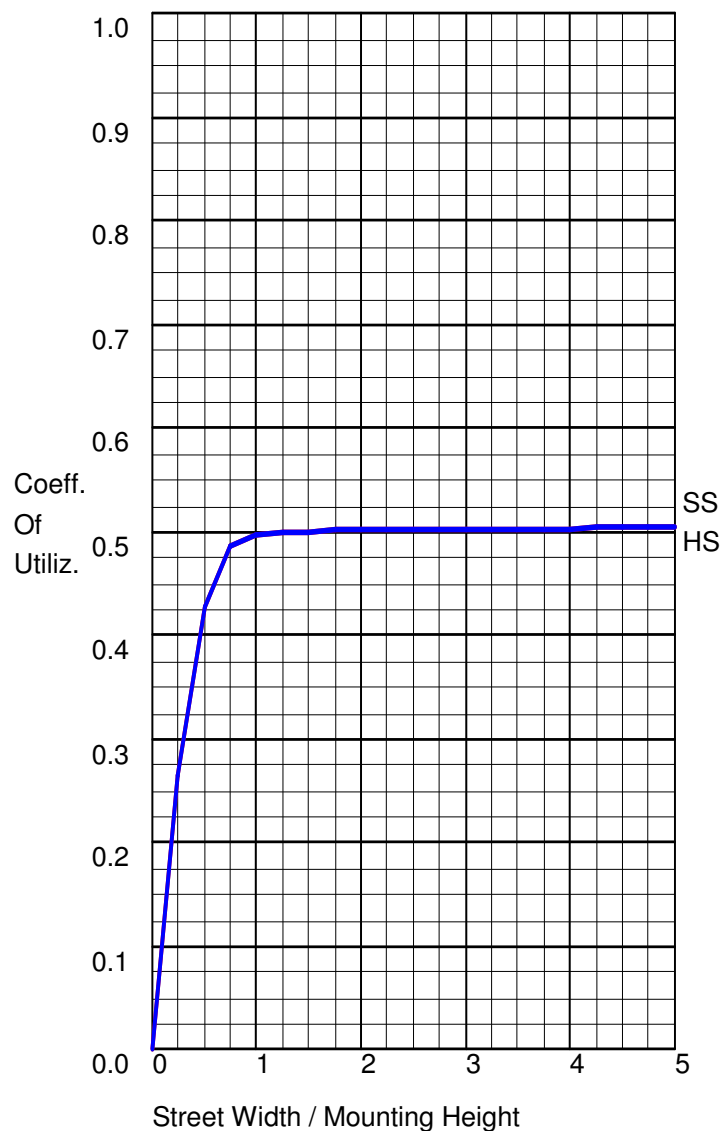
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-927-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

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-L20-927-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

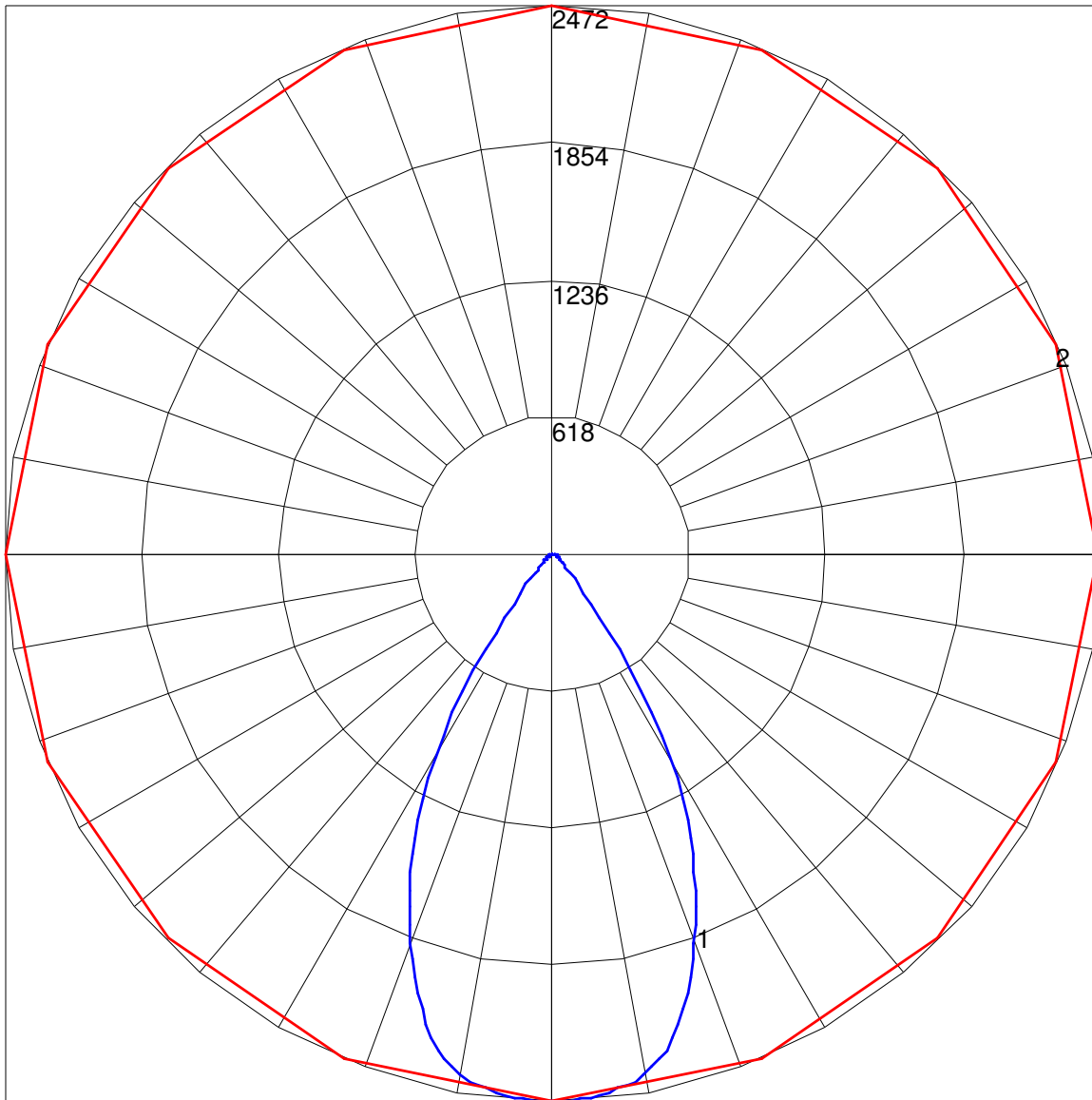
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

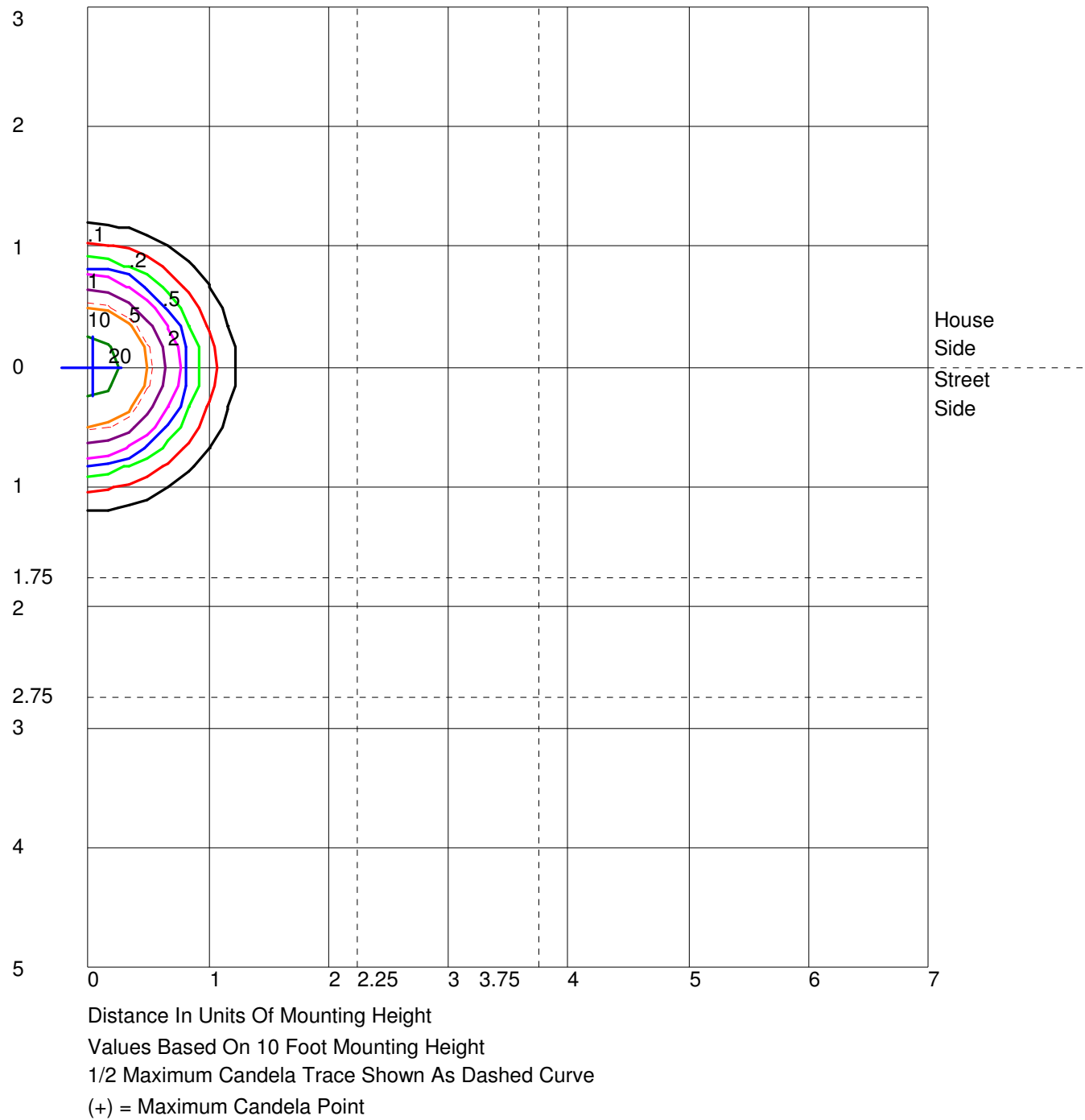
	Lumens	Percent Of Luminaire
Downward Street Side	980.7	50.0
Downward House Side	980.7	50.0
Downward Total	1961.4	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	1961.8	100.0

POLAR GRAPH

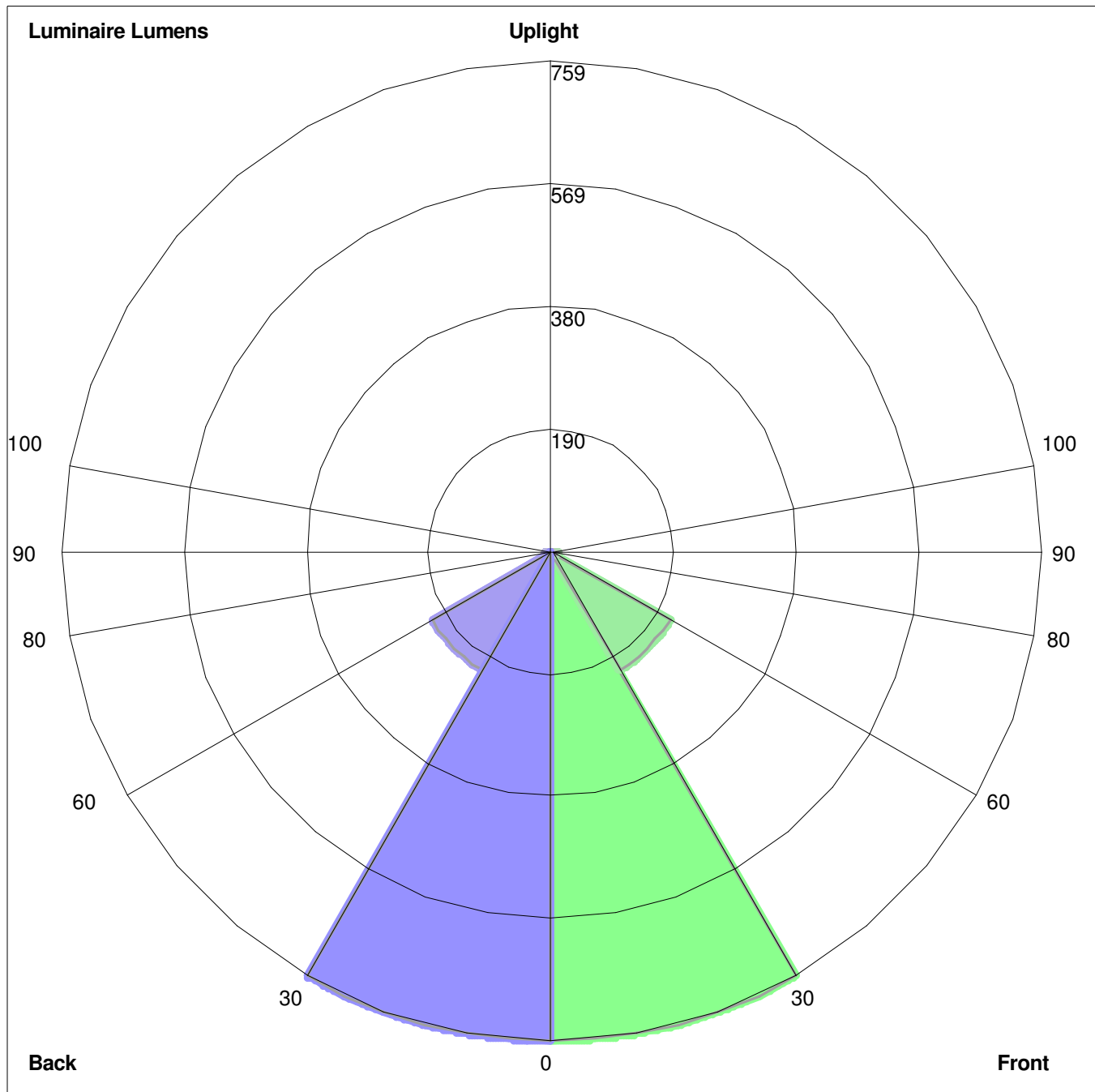


Maximum Candela = 2472.496 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=759.2, Medium=211.9, High=9.1, Very High=0.5
Back: Low=759.2, Medium=211.9, High=9.1, Very High=0.5
Uplight: Low=0.3, High=0.0

BUG Rating : B2-U1-G0