

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CRDI-XX-L10-930U-L10-930D-XXX-DIM-UNV-M-XX\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM W4CR\_BARBARA-MEDIUM DIST  
[TESTLAB] LEDIL Inc  
[TESTDATE] 07/03/2025  
[ISSUEDATE] 2025-08-07  
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO  
[LUMCAT] W4CRDI-xx-L10-930U-L10-930D-xxx-DIM-UNV-M-xx  
[LUMINAIRE] 4 INCH ROUND DIRECT-INDIRECT 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	1982
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	19.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Maximum Candela	1861.067
Maximum Candela Angle	360H 0V
Maximum Candela (<90 Degrees Vertical)	1861.067
Maximum Candela Angle (<90 Degrees Vertical)	360H 0V
Maximum Candela At 90 Degrees Vertical	.277 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.789 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CRDI-XX-L10-930U-L10-930D-XXX-DIM-UNV-M-XX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	409.2	N.A.	20.7
FM - Front-Medium (30-60)	81.4	N.A.	4.1
FH - Front-High (60-80)	4.5	N.A.	0.2
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	409.2	N.A.	20.7
BM - Back-Medium (30-60)	81.4	N.A.	4.1
BH - Back-High (60-80)	4.5	N.A.	0.2
BVH - Back-Very High (80-90)	0.3	N.A.	0.0
UL - Uplight-Low (90-100)	0.6	N.A.	0.0
UH - Uplight-High (100-180)	990.3	N.A.	50.0
Total	1981.7	N.A.	100.0
BUG Rating	B1-U4-G0		

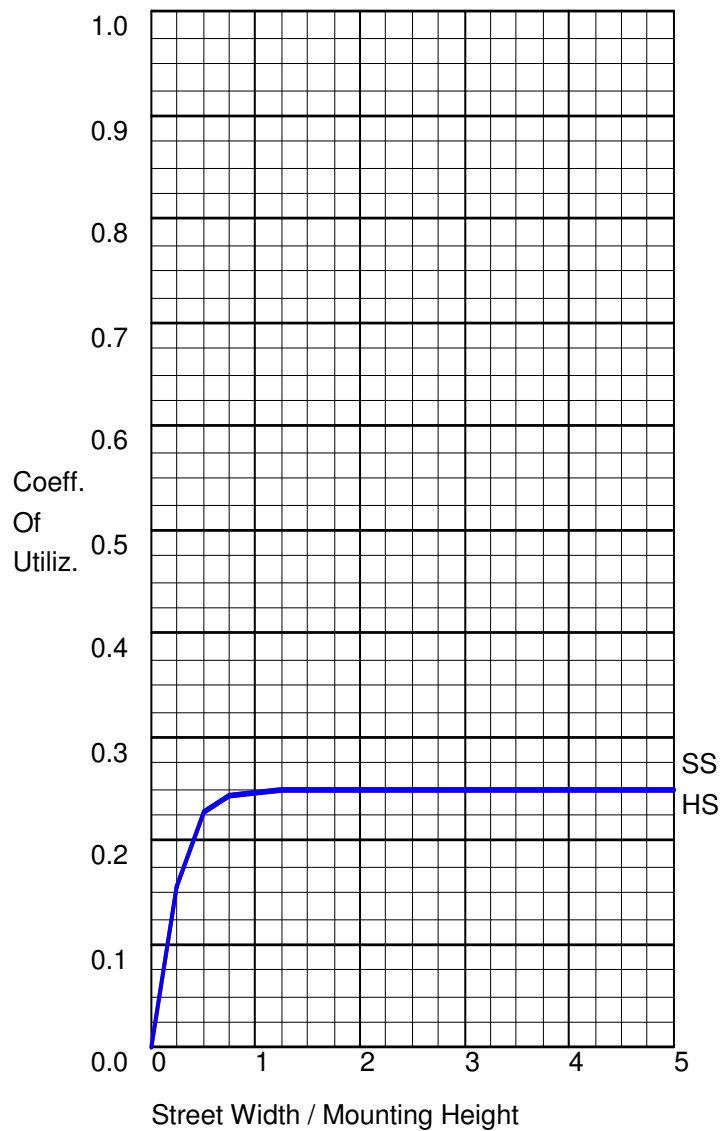
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## CANDELA TABULATION

Vert. Angles	Horizontal Angles								
	<u>0</u>	<u>45</u>	<u>90</u>	<u>135</u>	<u>180</u>	<u>225</u>	<u>270</u>	<u>315</u>	<u>360</u>
0	1861.067	1861.067	1861.067	1861.067	1861.067	1861.067	1861.067	1861.067	1861.067
5	1798.762	1794.366	1792.607	1794.366	1798.762	1794.366	1792.607	1794.366	1798.762
10	1594.053	1593.587	1590.001	1593.587	1594.053	1593.587	1590.001	1593.587	1594.053
15	1263.358	1264.883	1271.216	1264.883	1263.358	1264.883	1271.216	1264.883	1263.358
20	921.476	927.433	937.892	927.433	921.476	927.433	937.892	927.433	921.476
25	652.575	657.462	664.808	657.462	652.575	657.462	664.808	657.462	652.575
30	415.841	423.517	425.507	423.517	415.841	423.517	425.507	423.517	415.841
35	181.633	184.843	187.643	184.843	181.633	184.843	187.643	184.843	181.633
40	51.160	52.688	55.510	52.688	51.160	52.688	55.510	52.688	51.160
45	21.509	22.753	24.576	22.753	21.509	22.753	24.576	22.753	21.509
50	16.288	16.828	17.510	16.828	16.288	16.828	17.510	16.828	16.288
55	12.997	13.246	13.487	13.246	12.997	13.246	13.487	13.246	12.997
60	9.176	9.269	9.422	9.269	9.176	9.269	9.422	9.269	9.176
65	6.127	6.134	6.230	6.134	6.127	6.134	6.230	6.134	6.127
70	4.169	4.133	4.176	4.133	4.169	4.133	4.176	4.133	4.169
75	2.481	2.417	2.438	2.417	2.481	2.417	2.438	2.417	2.481
80	0.789	0.778	0.768	0.778	0.789	0.778	0.768	0.778	0.789
85	0.572	0.572	0.565	0.572	0.572	0.572	0.565	0.572	0.572
90	0.277	0.270	0.235	0.270	0.277	0.270	0.235	0.270	0.277
95	0.572	0.572	0.565	0.572	0.572	0.572	0.565	0.572	0.572
100	0.789	0.778	0.768	0.778	0.789	0.778	0.768	0.778	0.789
105	2.481	2.417	2.438	2.417	2.481	2.417	2.438	2.417	2.481
110	4.169	4.133	4.176	4.133	4.169	4.133	4.176	4.133	4.169
115	6.127	6.134	6.230	6.134	6.127	6.134	6.230	6.134	6.127
120	9.176	9.269	9.422	9.269	9.176	9.269	9.422	9.269	9.176
125	12.997	13.246	13.487	13.246	12.997	13.246	13.487	13.246	12.997
130	16.288	16.828	17.510	16.828	16.288	16.828	17.510	16.828	16.288
135	21.509	22.753	24.576	22.753	21.509	22.753	24.576	22.753	21.509
140	51.160	52.688	55.510	52.688	51.160	52.688	55.510	52.688	51.160
145	181.633	184.843	187.643	184.843	181.633	184.843	187.643	184.843	181.633
150	415.841	423.517	425.507	423.517	415.841	423.517	425.507	423.517	415.841
155	652.575	657.462	664.808	657.462	652.575	657.462	664.808	657.462	652.575
160	921.476	927.433	937.892	927.433	921.476	927.433	937.892	927.433	921.476
165	1263.358	1264.883	1271.216	1264.883	1263.358	1264.883	1271.216	1264.883	1263.358
170	1594.053	1593.587	1590.001	1593.587	1594.053	1593.587	1590.001	1593.587	1594.053
175	1798.762	1794.366	1792.607	1794.366	1798.762	1794.366	1792.607	1794.366	1798.762
180	1860.864	1860.864	1860.864	1860.864	1860.864	1860.864	1860.864	1860.864	1860.864

COEFFICIENTS OF UTILIZATION



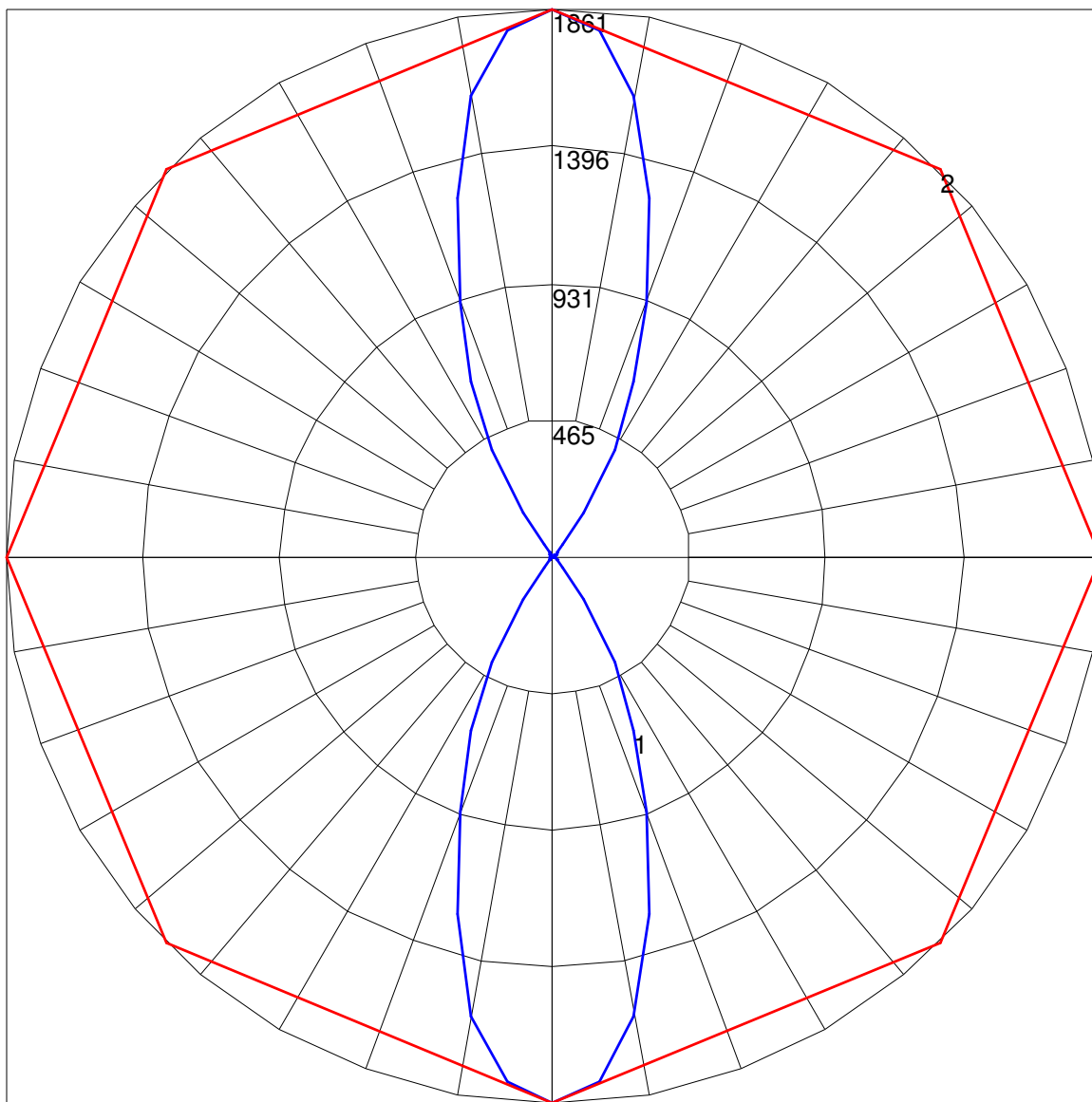
FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	495.4	25.0
Downward House Side	495.4	25.0
Downward Total	990.8	50.0
Upward Street Side	495.4	25.0
Upward House Side	495.4	25.0
Upward Total	990.8	50.0
Total Flux	1981.6	100.0

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## POLAR GRAPH

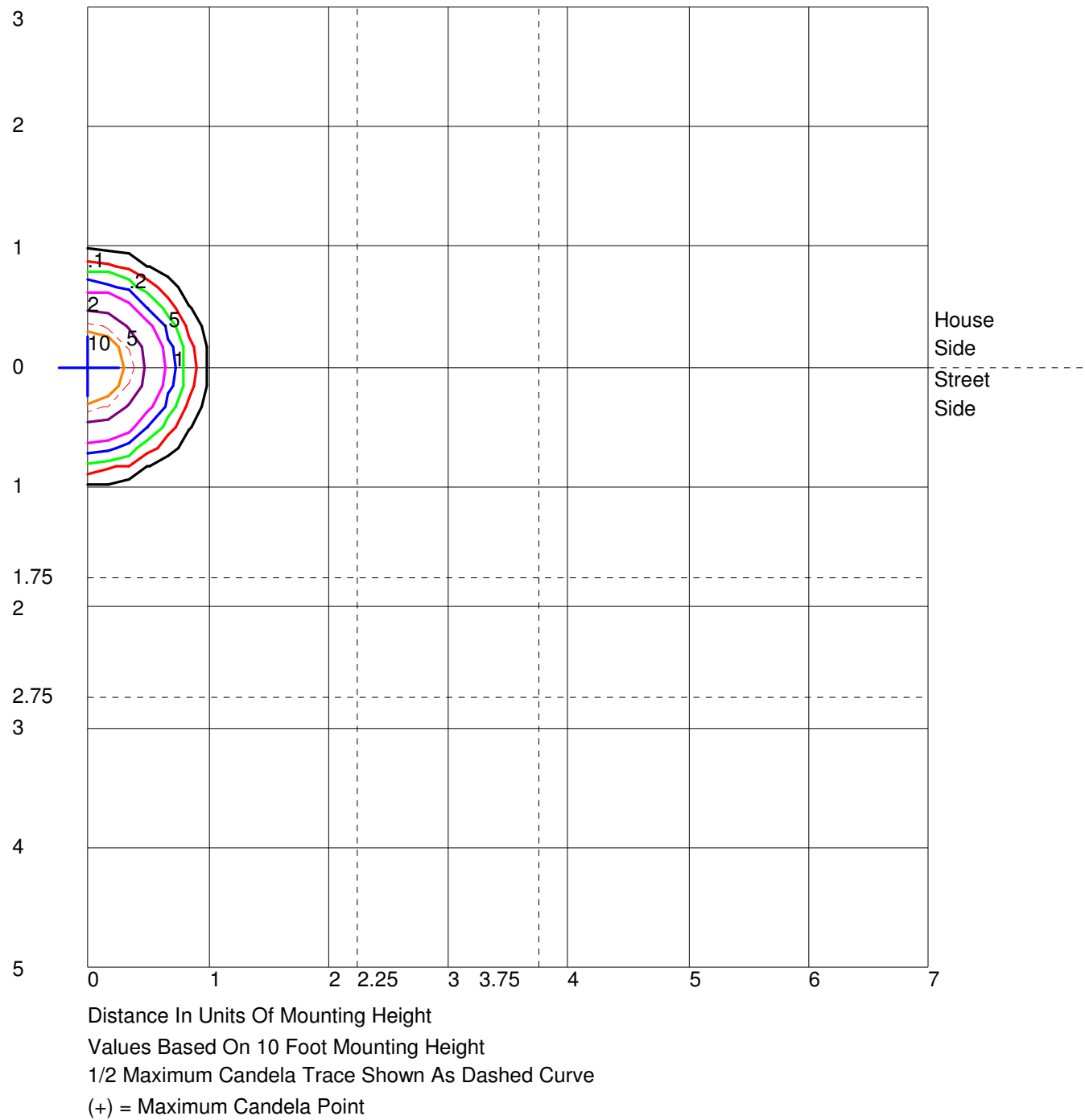


Maximum Candela = 1861.067 Located At Horizontal Angle = 360, Vertical Angle = 0

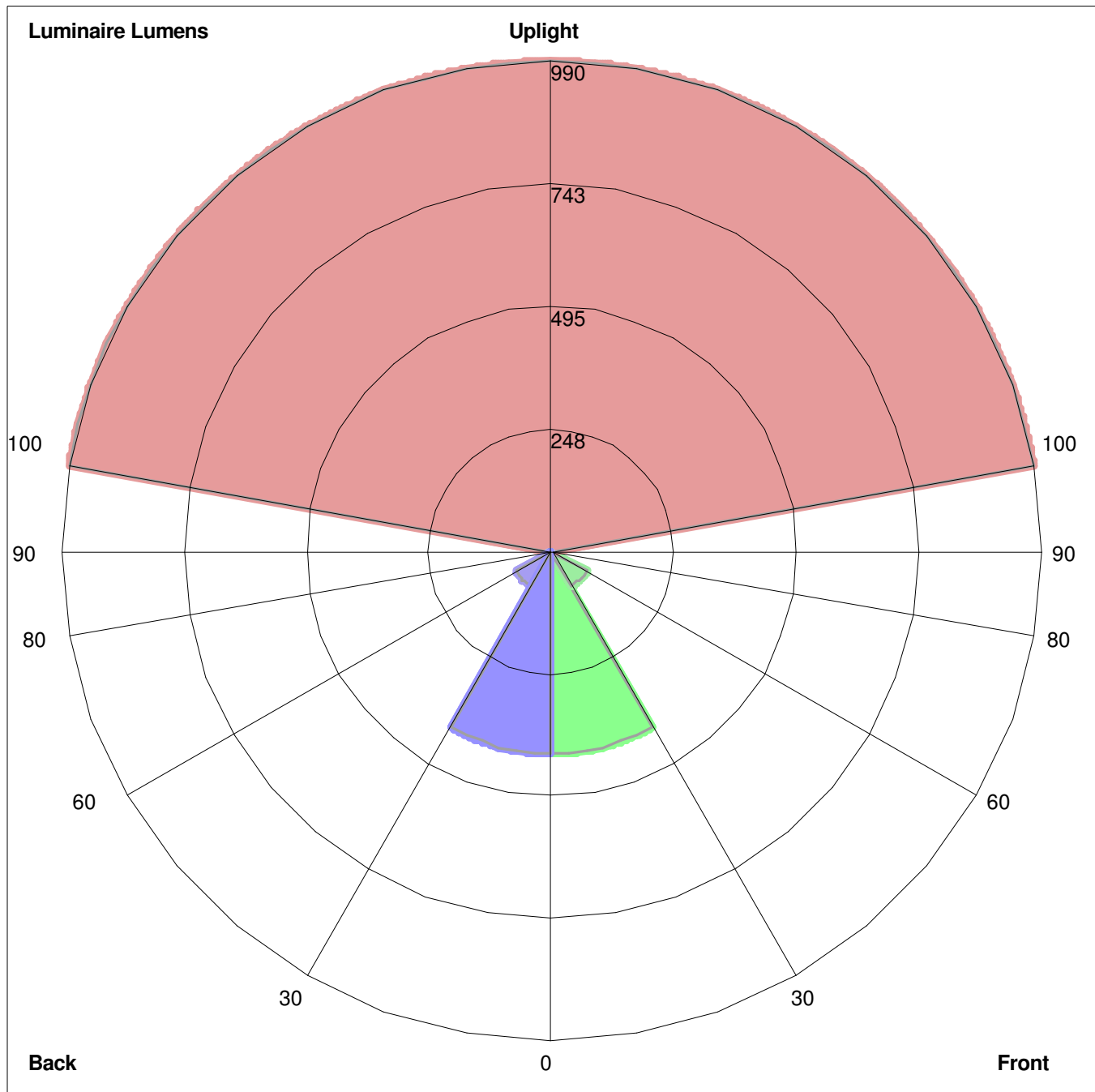
# 1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)

# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=409.2, Medium=81.4, High=4.5, Very High=0.3  
Back: Low=409.2, Medium=81.4, High=4.5, Very High=0.3  
Uplight: Low=0.6, High=990.3

BUG Rating : B1-U4-G0