

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CRDI-XX-L10-840U-L10-840D-XXX-DIM-UNV-W-XX_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM W4CR_BARBARA-WIDE DIST
[TESTLAB] LEDIL Inc
[TESTDATE] 08/01/2025
[ISSUE DATE] 2025-08-01
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] W4CRDI-xx-L10-840U-L10-840D-xxx-DIM-UNV-W-xx
[LUMINAIRE] 4 INCH ROUND OUTDOOR LED CYLINDER
[MORE] DIRECT/INDIRECT W/WIDE DISTRIBUTION
[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	2143
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	19.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Maximum Candela	1337.348
Maximum Candela Angle	360H 0V
Maximum Candela (<90 Degrees Vertical)	1337.348
Maximum Candela Angle (<90 Degrees Vertical)	360H 0V
Maximum Candela At 90 Degrees Vertical	.334 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.921 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CRDI-XX-L10-840U-L10-840D-XXX-DIM-UNV-W-XX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	410.9	N.A.	19.2
FM - Front-Medium (30-60)	119.5	N.A.	5.6
FH - Front-High (60-80)	5.0	N.A.	0.2
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	410.9	N.A.	19.2
BM - Back-Medium (30-60)	119.5	N.A.	5.6
BH - Back-High (60-80)	5.0	N.A.	0.2
BVH - Back-Very High (80-90)	0.3	N.A.	0.0
UL - Uplight-Low (90-100)	0.7	N.A.	0.0
UH - Uplight-High (100-180)	1070.9	N.A.	50.0
Total	2143.0	N.A.	100.0
BUG Rating	B1-U5-G0		

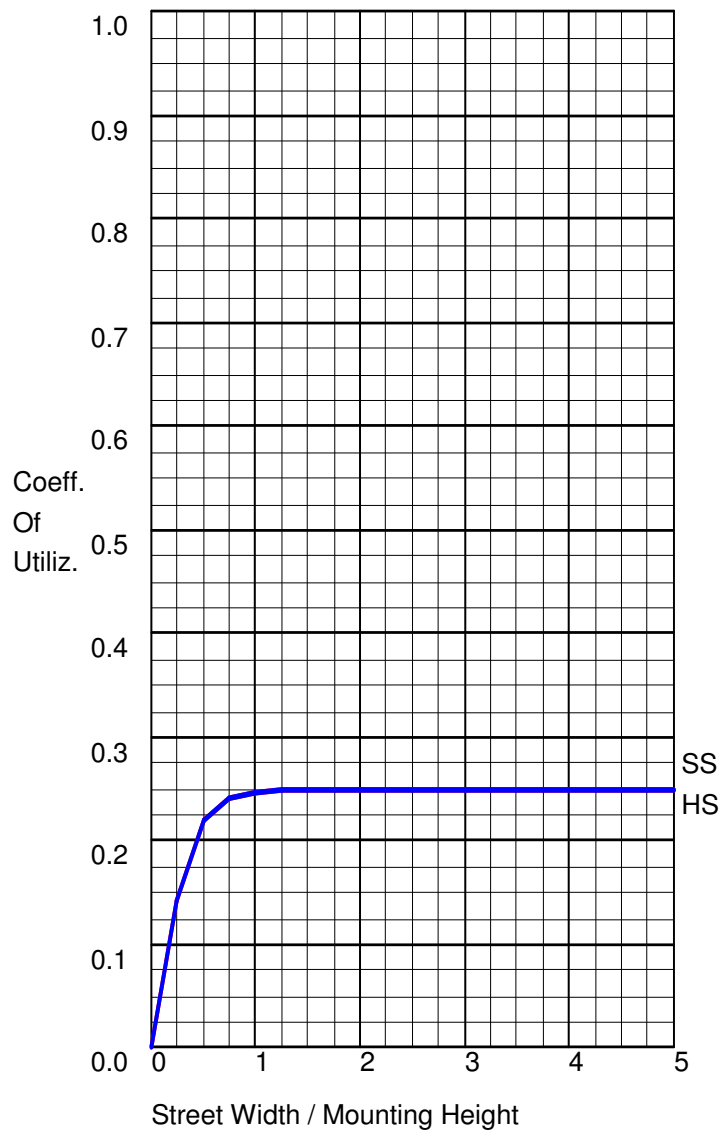
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CANDELA TABULATION

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	1337.348	1337.348	1337.348	1337.348	1337.348	1337.348	1337.348	1337.348	1337.348
5	1331.322	1329.579	1332.288	1329.579	1331.322	1329.579	1332.288	1329.579	1331.322
10	1298.813	1298.412	1297.160	1298.412	1298.813	1298.412	1297.160	1298.412	1298.813
15	1192.275	1189.745	1191.950	1189.745	1192.275	1189.745	1191.950	1189.745	1192.275
20	1011.357	1010.165	1014.026	1010.165	1011.357	1010.165	1014.026	1010.165	1011.357
25	810.928	811.425	814.269	811.425	810.928	811.425	814.269	811.425	810.928
30	569.776	576.310	575.059	576.310	569.776	576.310	575.059	576.310	569.776
35	278.329	283.123	288.874	283.123	278.329	283.123	288.874	283.123	278.329
40	90.884	94.117	98.610	94.117	90.884	94.117	98.610	94.117	90.884
45	34.102	36.231	38.837	36.231	34.102	36.231	38.837	36.231	34.102
50	20.483	21.329	22.314	21.329	20.483	21.329	22.314	21.329	20.483
55	14.664	15.069	15.407	15.069	14.664	15.069	15.407	15.069	14.664
60	10.323	10.482	10.621	10.482	10.323	10.482	10.621	10.482	10.323
65	6.943	6.963	7.038	6.963	6.943	6.963	7.038	6.963	6.943
70	4.671	4.639	4.639	4.639	4.671	4.639	4.639	4.639	4.671
75	2.745	2.669	2.657	2.669	2.745	2.669	2.657	2.669	2.745
80	0.921	0.914	0.898	0.914	0.921	0.914	0.898	0.914	0.921
85	0.675	0.667	0.655	0.667	0.675	0.667	0.655	0.667	0.675
90	0.334	0.318	0.278	0.318	0.334	0.318	0.278	0.318	0.334
95	0.675	0.667	0.655	0.667	0.675	0.667	0.655	0.667	0.675
100	0.921	0.914	0.898	0.914	0.921	0.914	0.898	0.914	0.921
105	2.745	2.669	2.657	2.669	2.745	2.669	2.657	2.669	2.745
110	4.671	4.639	4.639	4.639	4.671	4.639	4.639	4.639	4.671
115	6.943	6.963	7.038	6.963	6.943	6.963	7.038	6.963	6.943
120	10.323	10.482	10.621	10.482	10.323	10.482	10.621	10.482	10.323
125	14.664	15.069	15.407	15.069	14.664	15.069	15.407	15.069	14.664
130	20.483	21.329	22.314	21.329	20.483	21.329	22.314	21.329	20.483
135	34.102	36.231	38.837	36.231	34.102	36.231	38.837	36.231	34.102
140	90.884	94.117	98.610	94.117	90.884	94.117	98.610	94.117	90.884
145	278.329	283.123	288.874	283.123	278.329	283.123	288.874	283.123	278.329
150	569.776	576.310	575.059	576.310	569.776	576.310	575.059	576.310	569.776
155	810.928	811.425	814.269	811.425	810.928	811.425	814.269	811.425	810.928
160	1011.357	1010.165	1014.026	1010.165	1011.357	1010.165	1014.026	1010.165	1011.357
165	1192.275	1189.745	1191.950	1189.745	1192.275	1189.745	1191.950	1189.745	1192.275
170	1298.813	1298.412	1297.160	1298.412	1298.813	1298.412	1297.160	1298.412	1298.813
175	1331.322	1329.579	1332.288	1329.579	1331.322	1329.579	1332.288	1329.579	1331.322
180	1337.328	1337.328	1337.328	1337.328	1337.328	1337.328	1337.328	1337.328	1337.328

COEFFICIENTS OF UTILIZATION



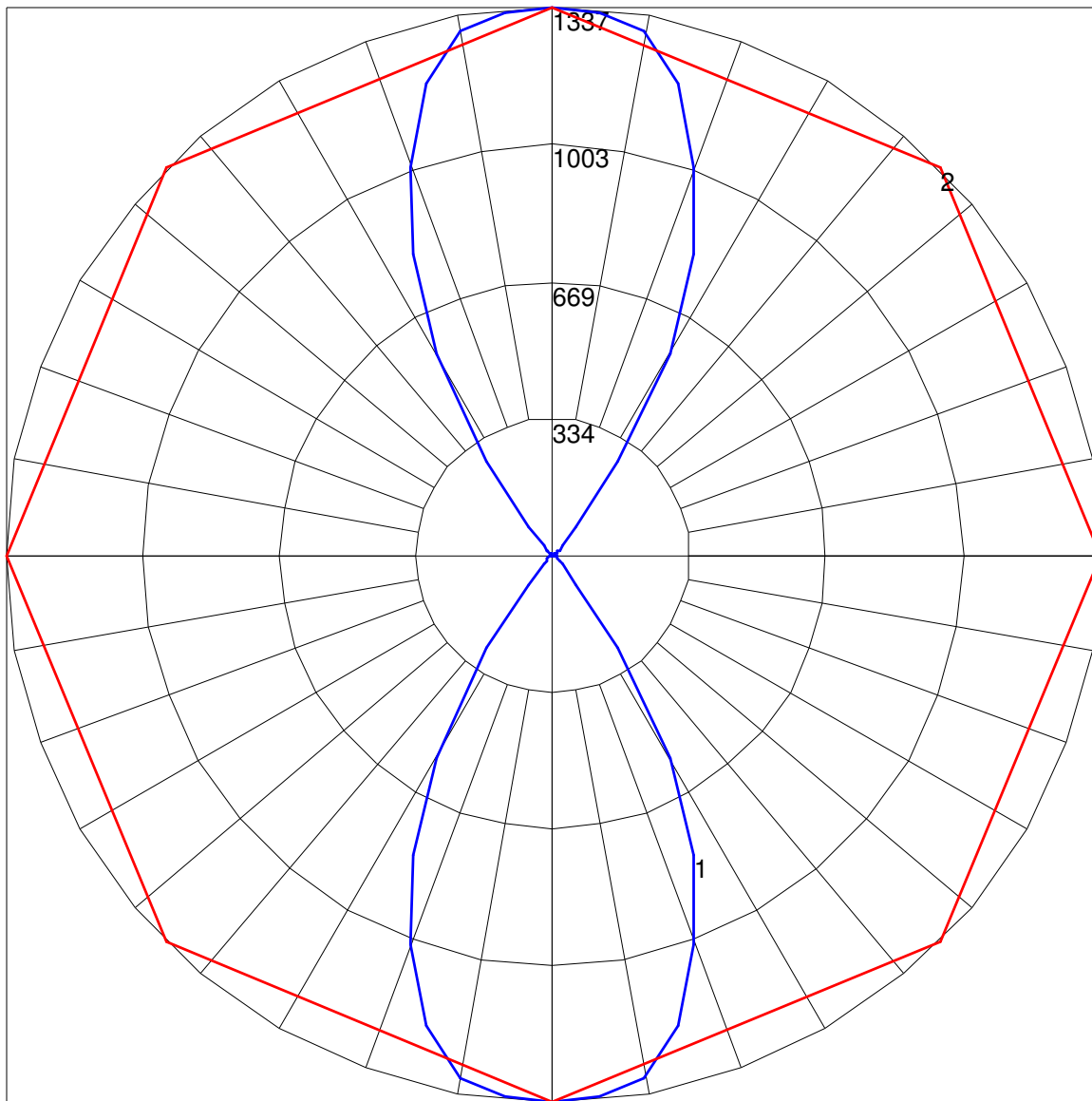
FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	535.8	25.0
Downward House Side	535.8	25.0
Downward Total	1071.6	50.0
Upward Street Side	535.8	25.0
Upward House Side	535.8	25.0
Upward Total	1071.6	50.0
Total Flux	2143.2	100.0

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POLAR GRAPH



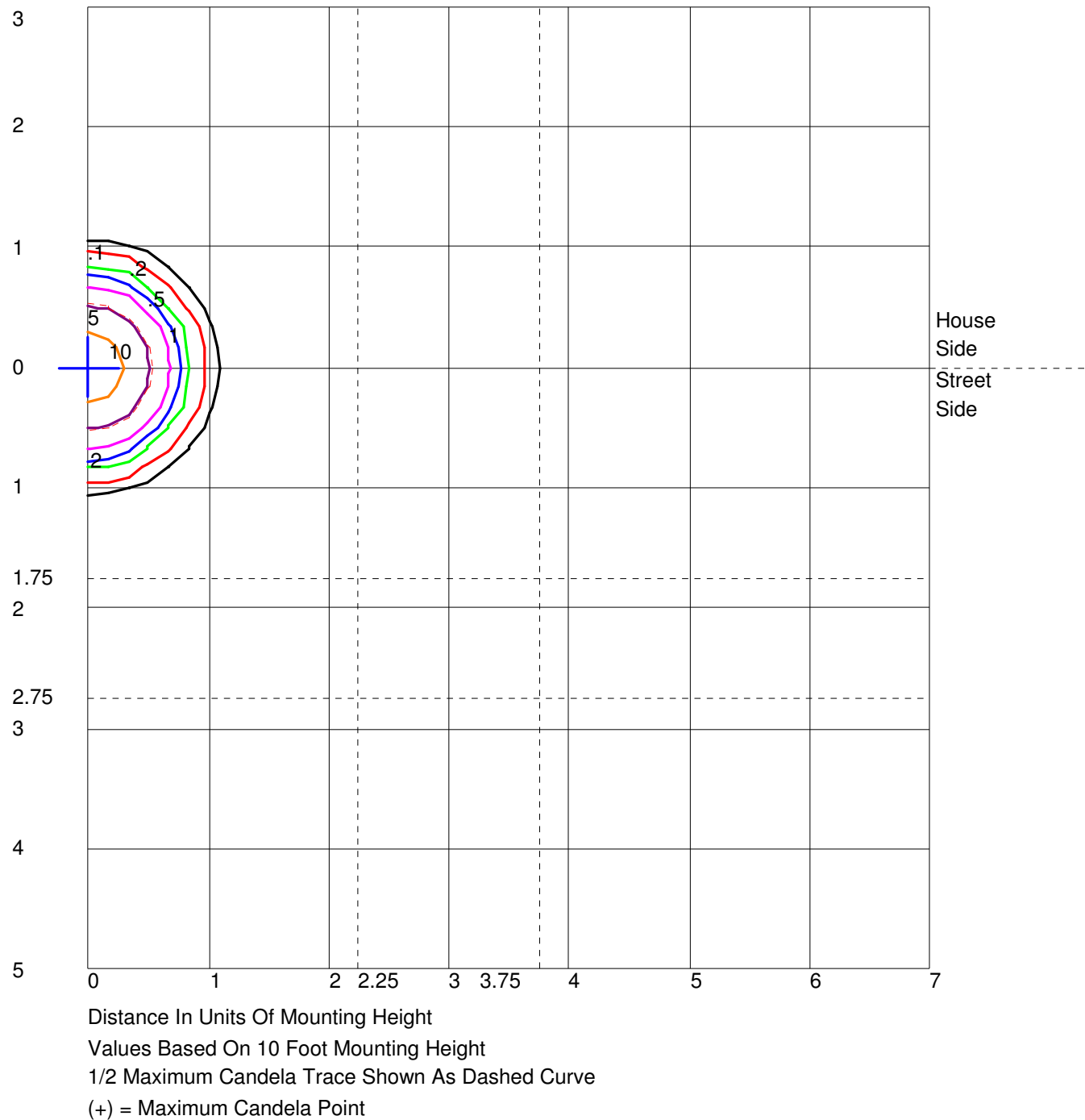
Maximum Candela = 1337.348 Located At Horizontal Angle = 360, Vertical Angle = 0

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

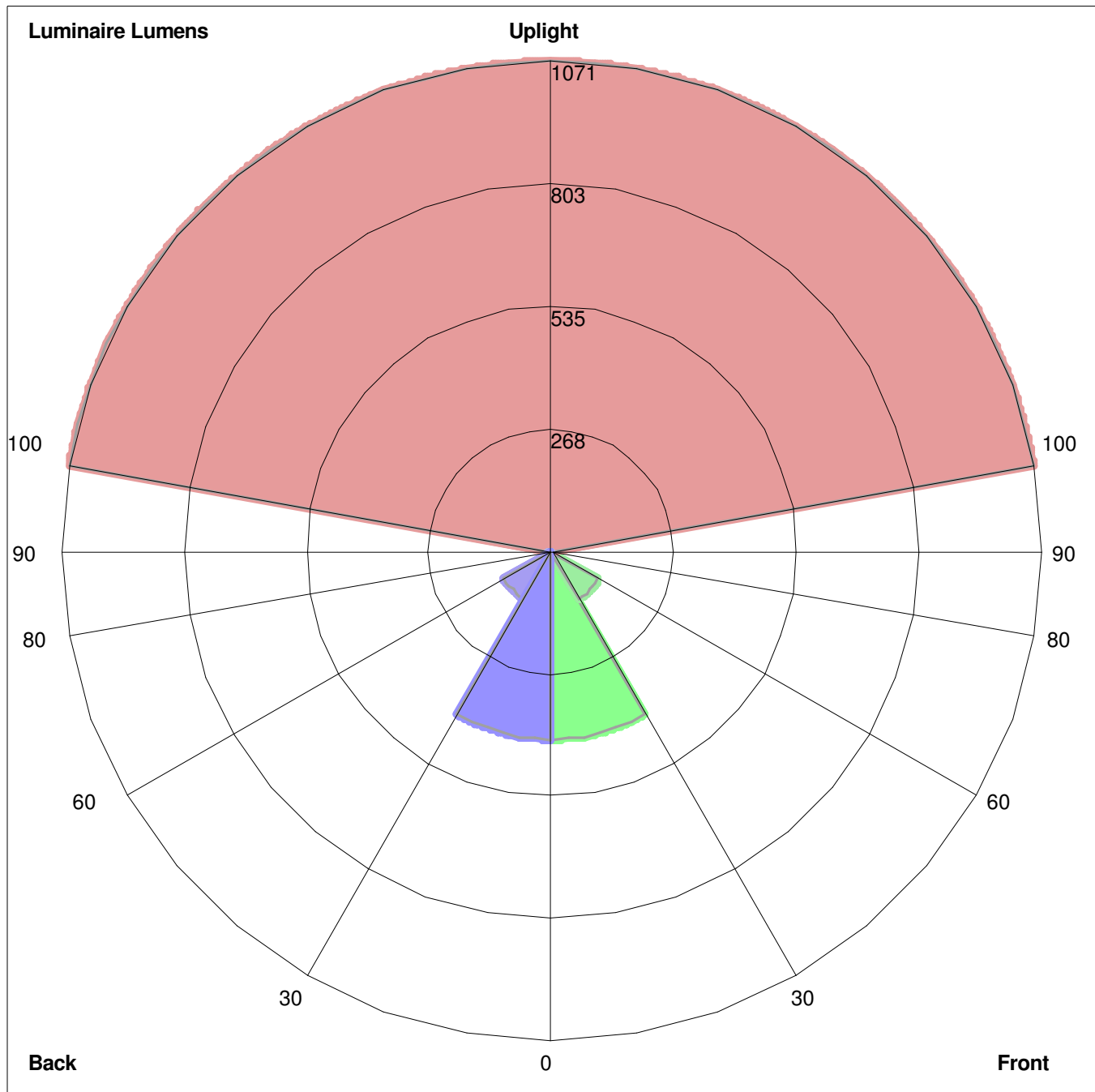
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=410.9, Medium=119.5, High=5.0, Very High=0.3
Back: Low=410.9, Medium=119.5, High=5.0, Very High=0.3
Uplight: Low=0.7, High=1070.9

BUG Rating : B1-U5-G0