

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CRDI-XX-L15-840U-L15-840D-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-L15-840U-L15-840D-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	3107
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	27.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Maximum Candela	2917.641
Maximum Candela Angle	360H 0V
Maximum Candela (<90 Degrees Vertical)	2917.641
Maximum Candela Angle (<90 Degrees Vertical)	360H 0V
Maximum Candela At 90 Degrees Vertical	.435 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.237 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CRDI-XX-L15-840U-L15-840D-XXX-DIM-UNV-M-XX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	641.6	N.A.	20.6
FM - Front-Medium (30-60)	127.7	N.A.	4.1
FH - Front-High (60-80)	7.0	N.A.	0.2
FVH - Front-Very High (80-90)	0.5	N.A.	0.0
BL - Back-Low (0-30)	641.6	N.A.	20.6
BM - Back-Medium (30-60)	127.7	N.A.	4.1
BH - Back-High (60-80)	7.0	N.A.	0.2
BVH - Back-Very High (80-90)	0.5	N.A.	0.0
UL - Uplight-Low (90-100)	0.9	N.A.	0.0
UH - Uplight-High (100-180)	1552.5	N.A.	50.0
Total	3107.0	N.A.	100.0
BUG Rating	B2-U5-G0		

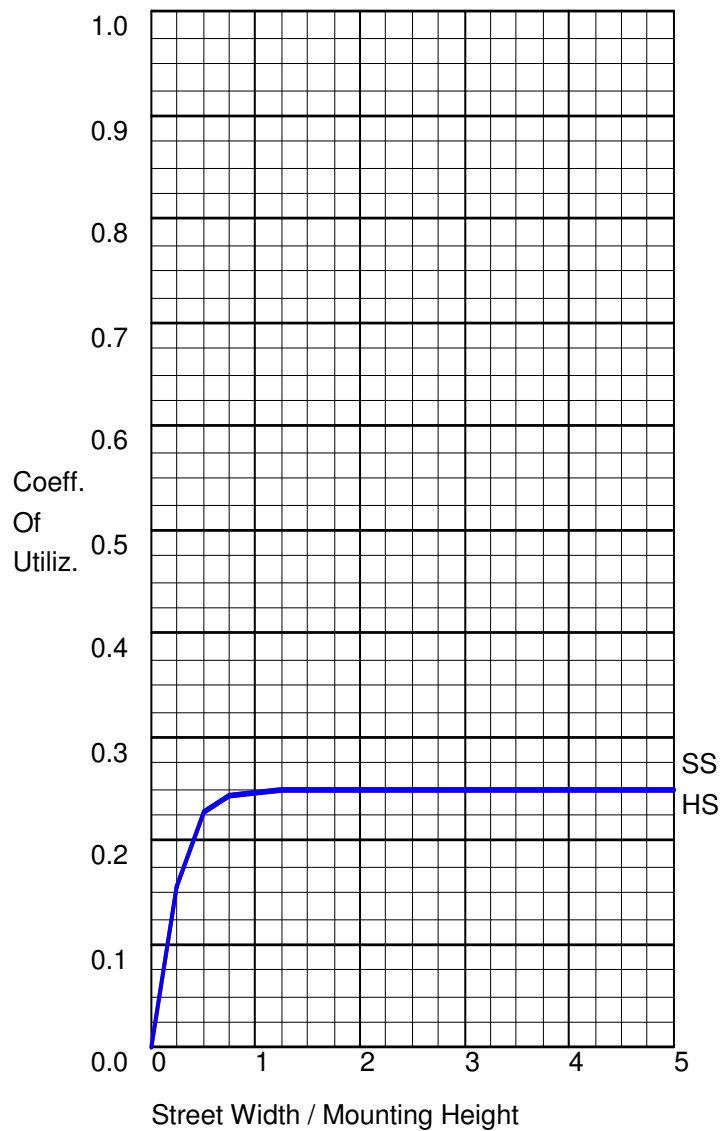
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## CANDELA TABULATION

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	2917.641	2917.641	2917.641	2917.641	2917.641	2917.641	2917.641	2917.641	2917.641
5	2819.965	2813.072	2810.314	2813.072	2819.965	2813.072	2810.314	2813.072	2819.965
10	2499.037	2498.307	2492.685	2498.307	2499.037	2498.307	2492.685	2498.307	2499.037
15	1980.599	1982.989	1992.918	1982.989	1980.599	1982.989	1992.918	1982.989	1980.599
20	1444.621	1453.959	1470.357	1453.959	1444.621	1453.959	1470.357	1453.959	1444.621
25	1023.058	1030.719	1042.236	1030.719	1023.058	1030.719	1042.236	1030.719	1023.058
30	651.924	663.959	667.079	663.959	651.924	663.959	667.079	663.959	651.924
35	284.751	289.782	294.173	289.782	284.751	289.782	294.173	289.782	284.751
40	80.204	82.600	87.024	82.600	80.204	82.600	87.024	82.600	80.204
45	33.720	35.670	38.528	35.670	33.720	35.670	38.528	35.670	33.720
50	25.535	26.382	27.452	26.382	25.535	26.382	27.452	26.382	25.535
55	20.376	20.766	21.144	20.766	20.376	20.766	21.144	20.766	20.376
60	14.386	14.531	14.770	14.531	14.386	14.531	14.770	14.531	14.386
65	9.606	9.617	9.767	9.617	9.606	9.617	9.767	9.617	9.606
70	6.536	6.480	6.547	6.480	6.536	6.480	6.547	6.480	6.536
75	3.889	3.789	3.822	3.789	3.889	3.789	3.822	3.789	3.889
80	1.237	1.220	1.203	1.220	1.237	1.220	1.203	1.220	1.237
85	0.897	0.897	0.886	0.897	0.897	0.897	0.886	0.897	0.897
90	0.435	0.423	0.368	0.423	0.435	0.423	0.368	0.423	0.435
95	0.897	0.897	0.886	0.897	0.897	0.897	0.886	0.897	0.897
100	1.237	1.220	1.203	1.220	1.237	1.220	1.203	1.220	1.237
105	3.889	3.789	3.822	3.789	3.889	3.789	3.822	3.789	3.889
110	6.536	6.480	6.547	6.480	6.536	6.480	6.547	6.480	6.536
115	9.606	9.617	9.767	9.617	9.606	9.617	9.767	9.617	9.606
120	14.386	14.531	14.770	14.531	14.386	14.531	14.770	14.531	14.386
125	20.376	20.766	21.144	20.766	20.376	20.766	21.144	20.766	20.376
130	25.535	26.382	27.452	26.382	25.535	26.382	27.452	26.382	25.535
135	33.720	35.670	38.528	35.670	33.720	35.670	38.528	35.670	33.720
140	80.204	82.600	87.024	82.600	80.204	82.600	87.024	82.600	80.204
145	284.751	289.782	294.173	289.782	284.751	289.782	294.173	289.782	284.751
150	651.924	663.959	667.079	663.959	651.924	663.959	667.079	663.959	651.924
155	1023.058	1030.719	1042.236	1030.719	1023.058	1030.719	1042.236	1030.719	1023.058
160	1444.621	1453.959	1470.357	1453.959	1444.621	1453.959	1470.357	1453.959	1444.621
165	1980.599	1982.989	1992.918	1982.989	1980.599	1982.989	1992.918	1982.989	1980.599
170	2499.037	2498.307	2492.685	2498.307	2499.037	2498.307	2492.685	2498.307	2499.037
175	2819.965	2813.072	2810.314	2813.072	2819.965	2813.072	2810.314	2813.072	2819.965
180	2917.324	2917.324	2917.324	2917.324	2917.324	2917.324	2917.324	2917.324	2917.324

COEFFICIENTS OF UTILIZATION



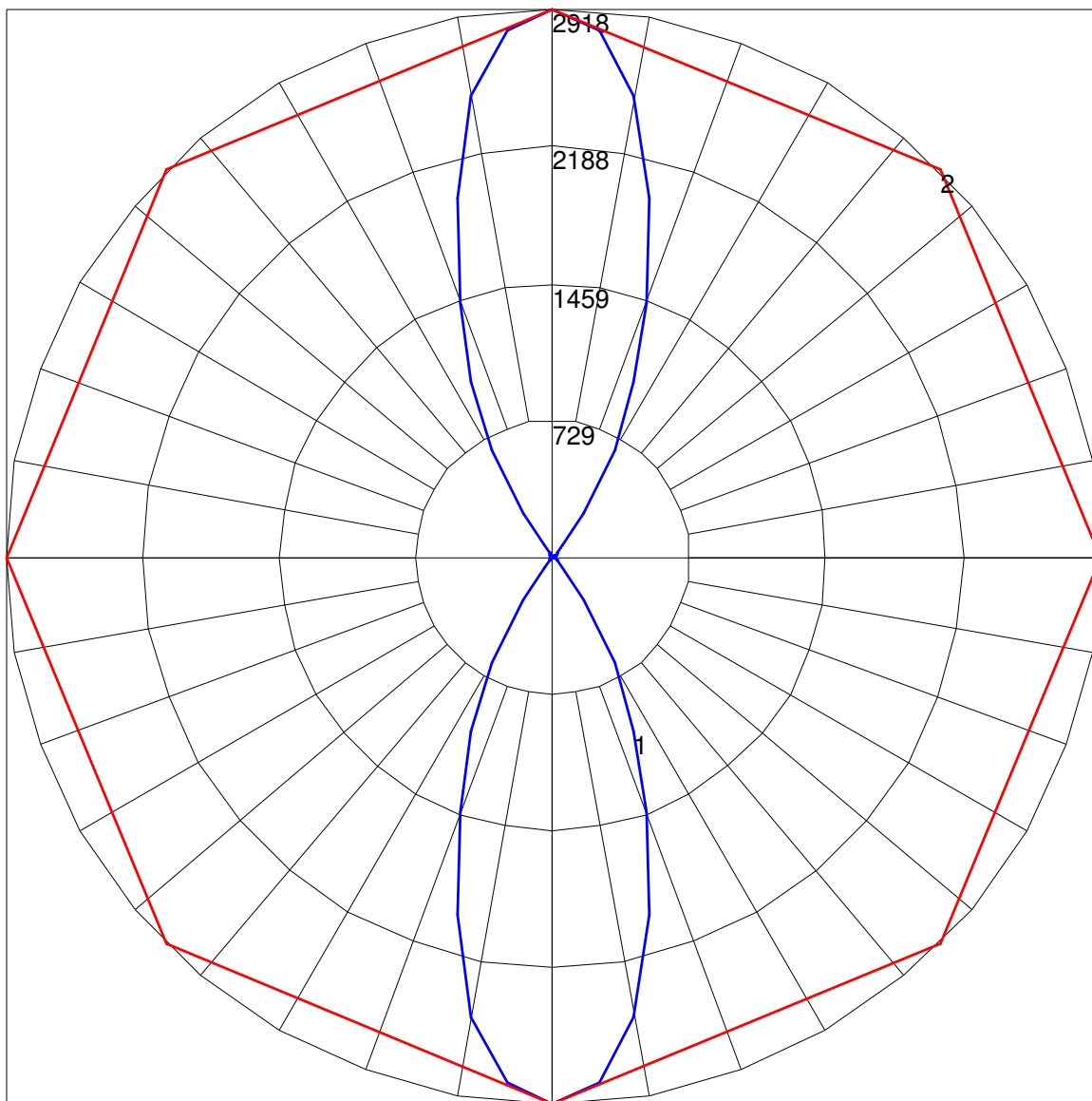
FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	776.7	25.0
Downward House Side	776.7	25.0
Downward Total	1553.4	50.0
Upward Street Side	776.7	25.0
Upward House Side	776.7	25.0
Upward Total	1553.4	50.0
Total Flux	3106.8	100.0

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## POLAR GRAPH

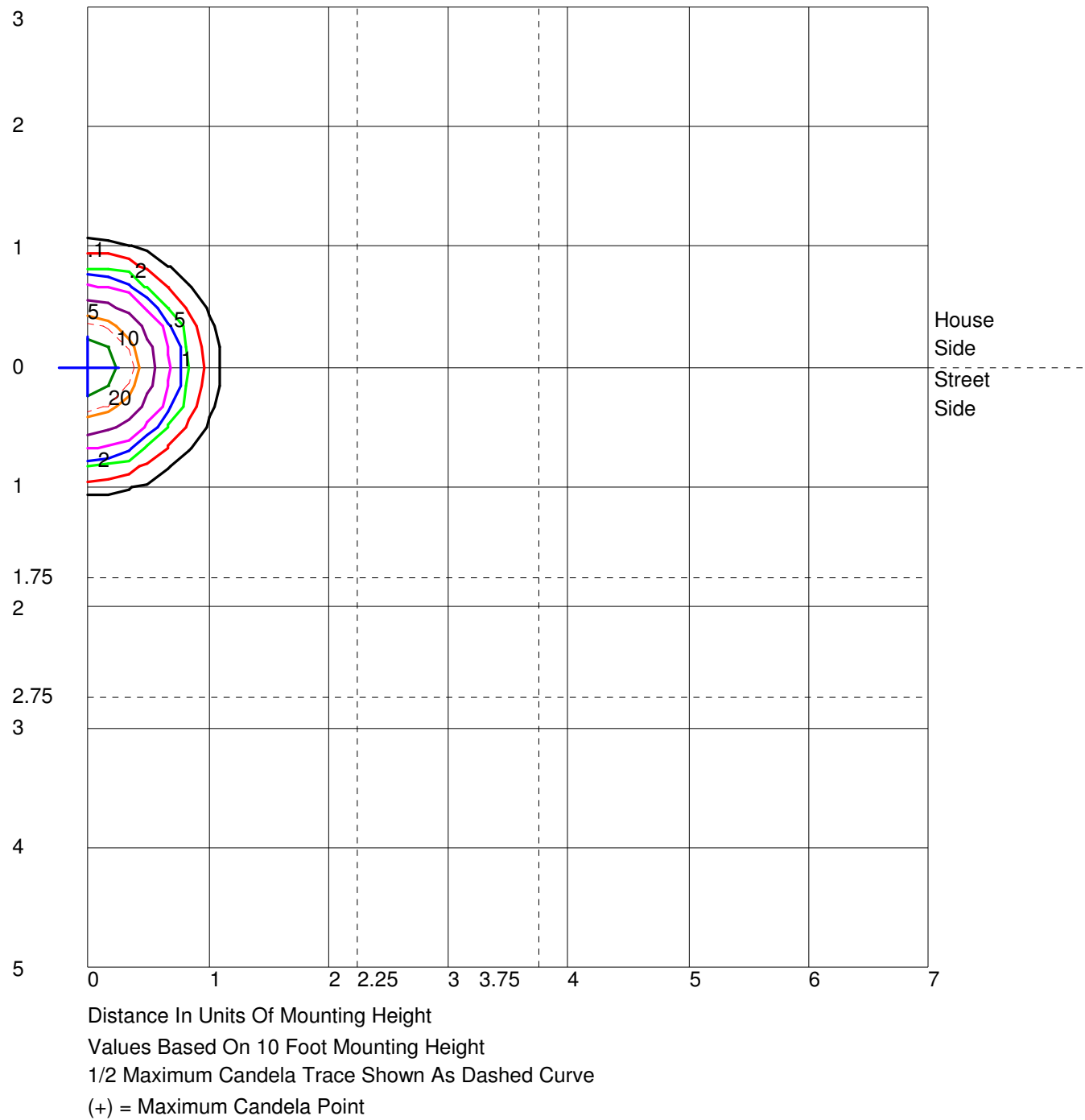


Maximum Candela = 2917.641 Located At Horizontal Angle = 360, Vertical Angle = 0

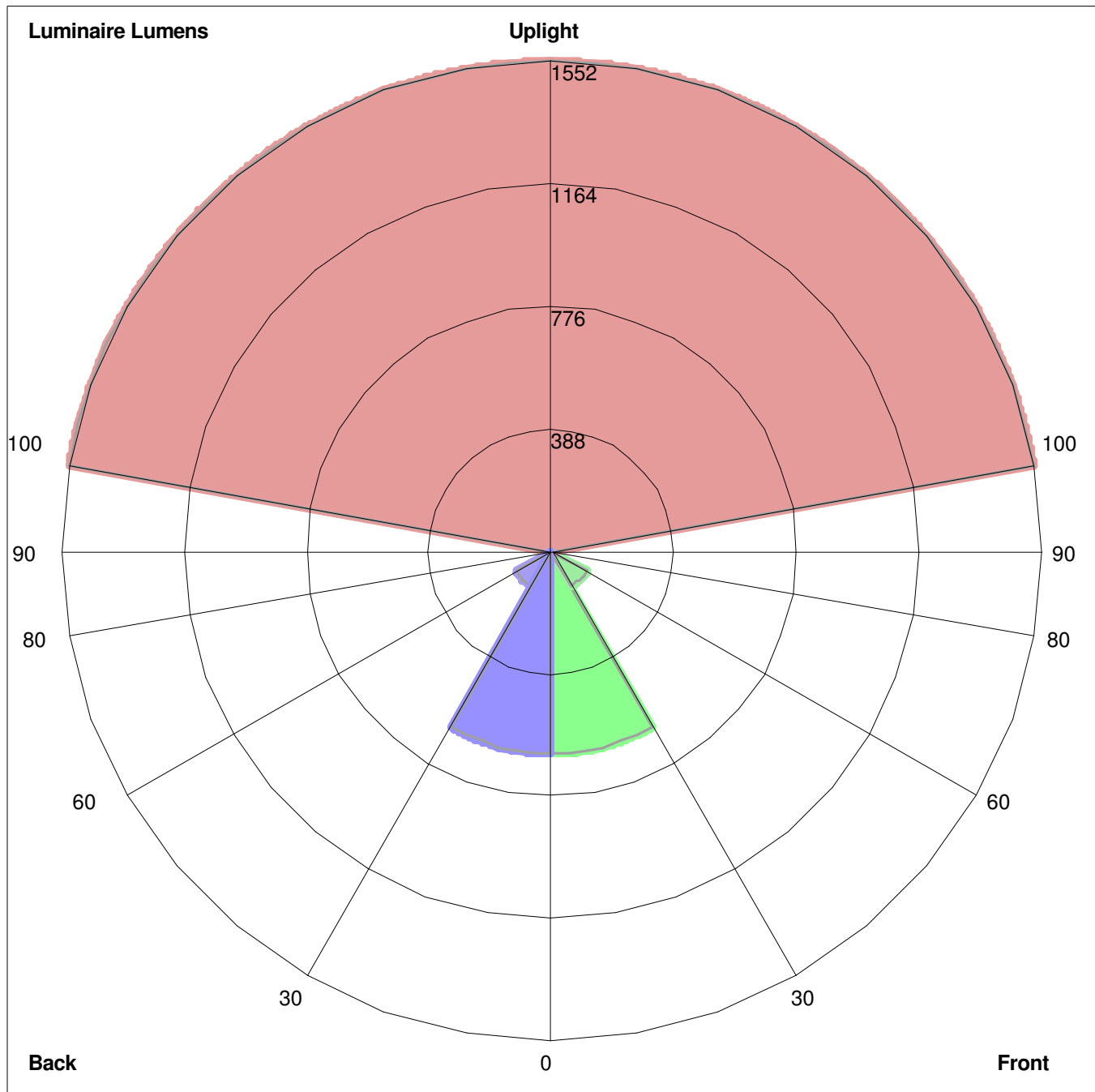
# 1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)

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

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=641.6, Medium=127.7, High=7.0, Very High=0.5  
Back: Low=641.6, Medium=127.7, High=7.0, Very High=0.5  
Uplight: Low=0.9, High=1552.5

BUG Rating : B2-U5-G0