

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CRDI-XX-L10-935U-L10-935D-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  
[ISSUEDATE] 2025-08-01  
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] W4CRDI-xx-L10-935U-L10-935D-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	2037
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	19.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Maximum Candela	1271.143
Maximum Candela Angle	360H 0V
Maximum Candela (<90 Degrees Vertical)	1271.143
Maximum Candela Angle (<90 Degrees Vertical)	360H 0V
Maximum Candela At 90 Degrees Vertical	.317 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.876 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CRDI-XX-L10-935U-L10-935D-XXX-DIM-UNV-W-XX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	390.6	N.A.	19.2
FM - Front-Medium (30-60)	113.6	N.A.	5.6
FH - Front-High (60-80)	4.8	N.A.	0.2
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	390.6	N.A.	19.2
BM - Back-Medium (30-60)	113.6	N.A.	5.6
BH - Back-High (60-80)	4.8	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)	1017.9	N.A.	50.0
Total	2037.2	N.A.	100.0
BUG Rating	B1-U5-G0		

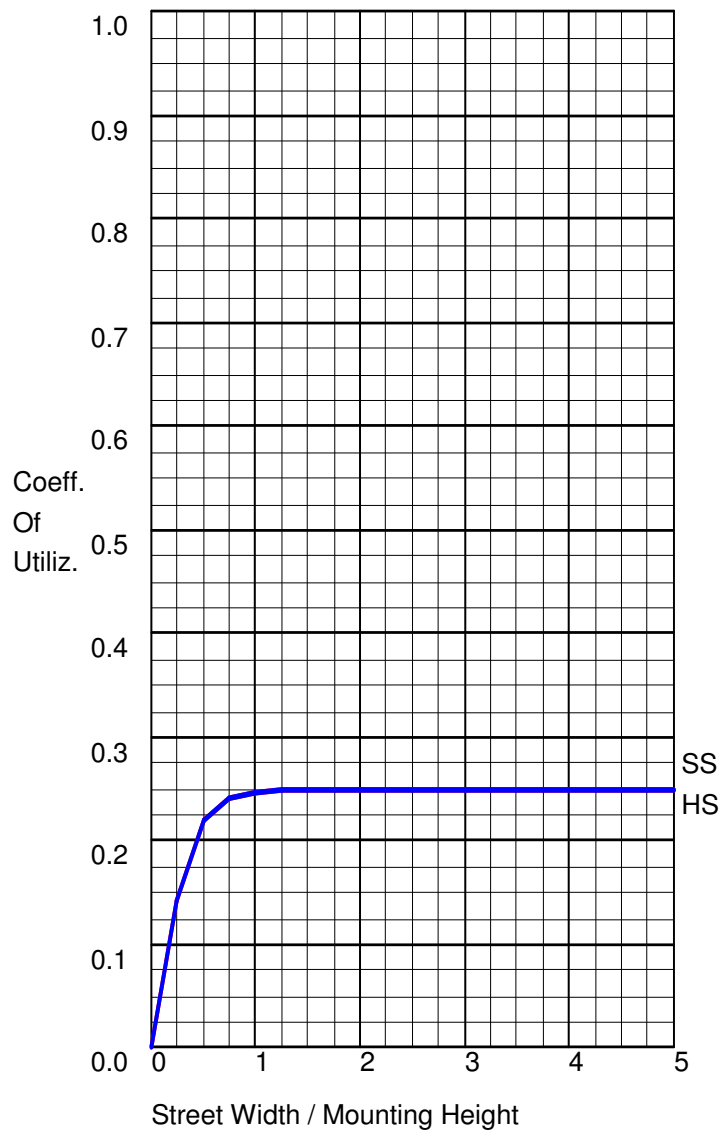
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## CANDELA TABULATION

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	1271.143	1271.143	1271.143	1271.143	1271.143	1271.143	1271.143	1271.143	1271.143
5	1265.416	1263.758	1266.333	1263.758	1265.416	1263.758	1266.333	1263.758	1265.416
10	1234.515	1234.134	1232.945	1234.134	1234.515	1234.134	1232.945	1234.134	1234.515
15	1133.252	1130.847	1132.942	1130.847	1133.252	1130.847	1132.942	1130.847	1133.252
20	961.290	960.157	963.827	960.157	961.290	960.157	963.827	960.157	961.290
25	770.783	771.255	773.958	771.255	770.783	771.255	773.958	771.255	770.783
30	541.570	547.780	546.591	547.780	541.570	547.780	546.591	547.780	541.570
35	264.550	269.107	274.573	269.107	264.550	269.107	274.573	269.107	264.550
40	86.385	89.458	93.728	89.458	86.385	89.458	93.728	89.458	86.385
45	32.414	34.438	36.914	34.438	32.414	34.438	36.914	34.438	32.414
50	19.469	20.273	21.209	20.273	19.469	20.273	21.209	20.273	19.469
55	13.938	14.323	14.644	14.323	13.938	14.323	14.644	14.323	13.938
60	9.812	9.963	10.095	9.963	9.812	9.963	10.095	9.963	9.812
65	6.599	6.618	6.690	6.618	6.599	6.618	6.690	6.618	6.599
70	4.440	4.409	4.409	4.409	4.440	4.409	4.409	4.409	4.440
75	2.609	2.537	2.526	2.537	2.609	2.537	2.526	2.537	2.609
80	0.876	0.868	0.853	0.868	0.876	0.868	0.853	0.868	0.876
85	0.642	0.634	0.623	0.634	0.642	0.634	0.623	0.634	0.642
90	0.317	0.302	0.264	0.302	0.317	0.302	0.264	0.302	0.317
95	0.642	0.634	0.623	0.634	0.642	0.634	0.623	0.634	0.642
100	0.876	0.868	0.853	0.868	0.876	0.868	0.853	0.868	0.876
105	2.609	2.537	2.526	2.537	2.609	2.537	2.526	2.537	2.609
110	4.440	4.409	4.409	4.409	4.440	4.409	4.409	4.409	4.440
115	6.599	6.618	6.690	6.618	6.599	6.618	6.690	6.618	6.599
120	9.812	9.963	10.095	9.963	9.812	9.963	10.095	9.963	9.812
125	13.938	14.323	14.644	14.323	13.938	14.323	14.644	14.323	13.938
130	19.469	20.273	21.209	20.273	19.469	20.273	21.209	20.273	19.469
135	32.414	34.438	36.914	34.438	32.414	34.438	36.914	34.438	32.414
140	86.385	89.458	93.728	89.458	86.385	89.458	93.728	89.458	86.385
145	264.550	269.107	274.573	269.107	264.550	269.107	274.573	269.107	264.550
150	541.570	547.780	546.591	547.780	541.570	547.780	546.591	547.780	541.570
155	770.783	771.255	773.958	771.255	770.783	771.255	773.958	771.255	770.783
160	961.290	960.157	963.827	960.157	961.290	960.157	963.827	960.157	961.290
165	1133.252	1130.847	1132.942	1130.847	1133.252	1130.847	1132.942	1130.847	1133.252
170	1234.515	1234.134	1232.945	1234.134	1234.515	1234.134	1232.945	1234.134	1234.515
175	1265.416	1263.758	1266.333	1263.758	1265.416	1263.758	1266.333	1263.758	1265.416
180	1271.124	1271.124	1271.124	1271.124	1271.124	1271.124	1271.124	1271.124	1271.124

COEFFICIENTS OF UTILIZATION



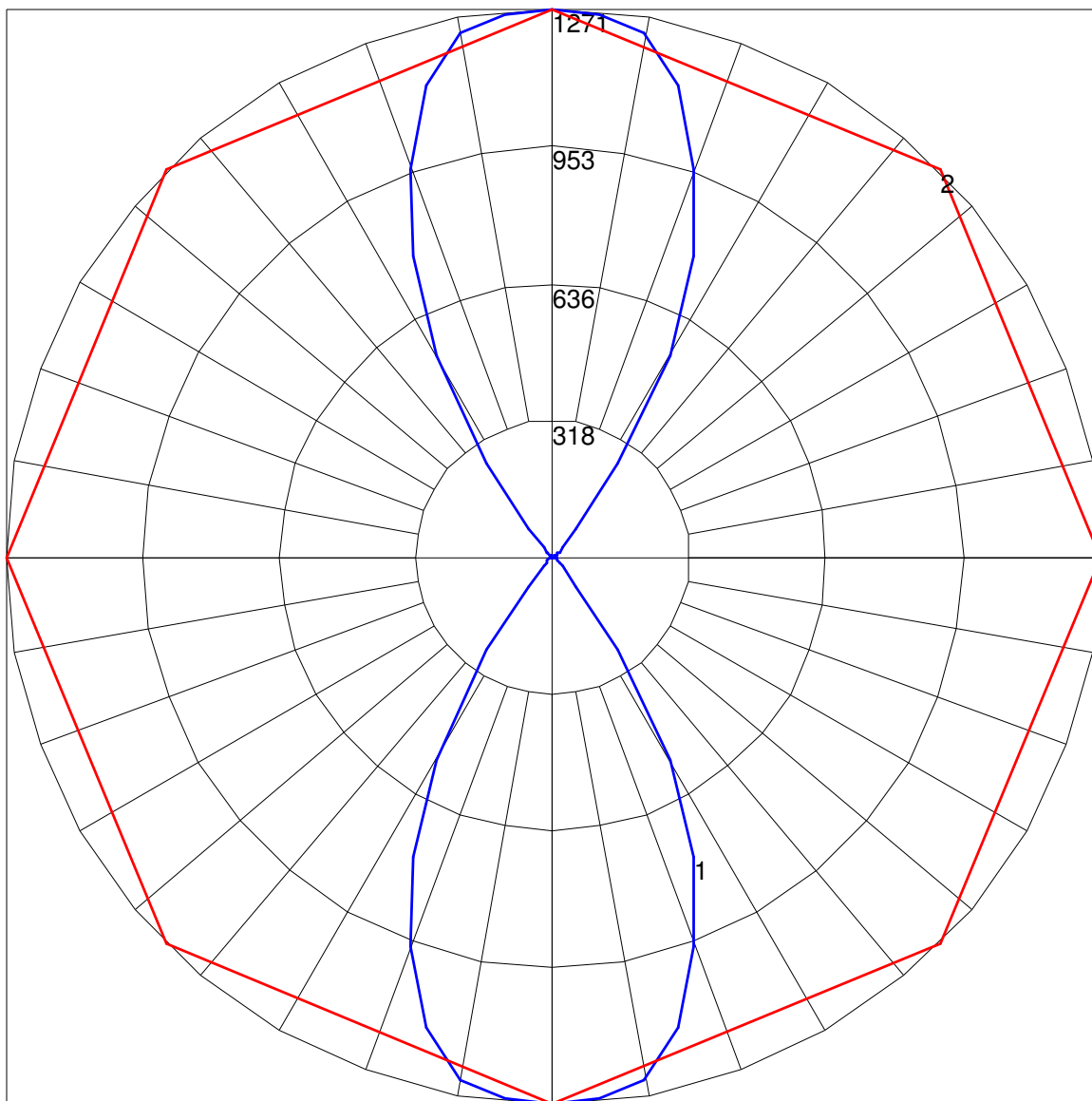
FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	509.3	25.0
Downward House Side	509.3	25.0
Downward Total	1018.6	50.0
Upward Street Side	509.3	25.0
Upward House Side	509.3	25.0
Upward Total	1018.6	50.0
Total Flux	2037.2	100.0

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## POLAR GRAPH



Maximum Candela = 1271.143 Located At Horizontal Angle = 360, Vertical Angle = 0

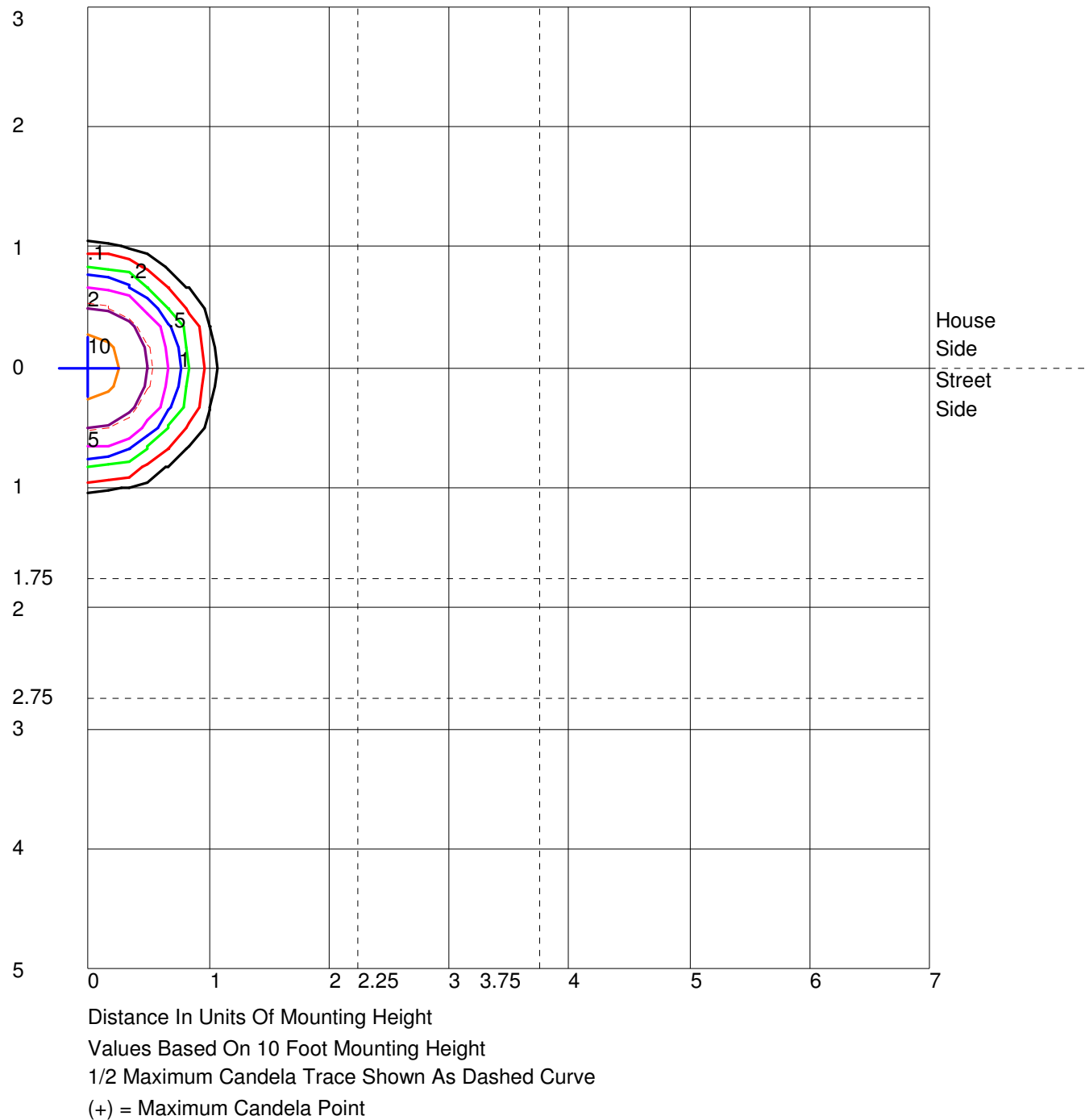
# 1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)

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

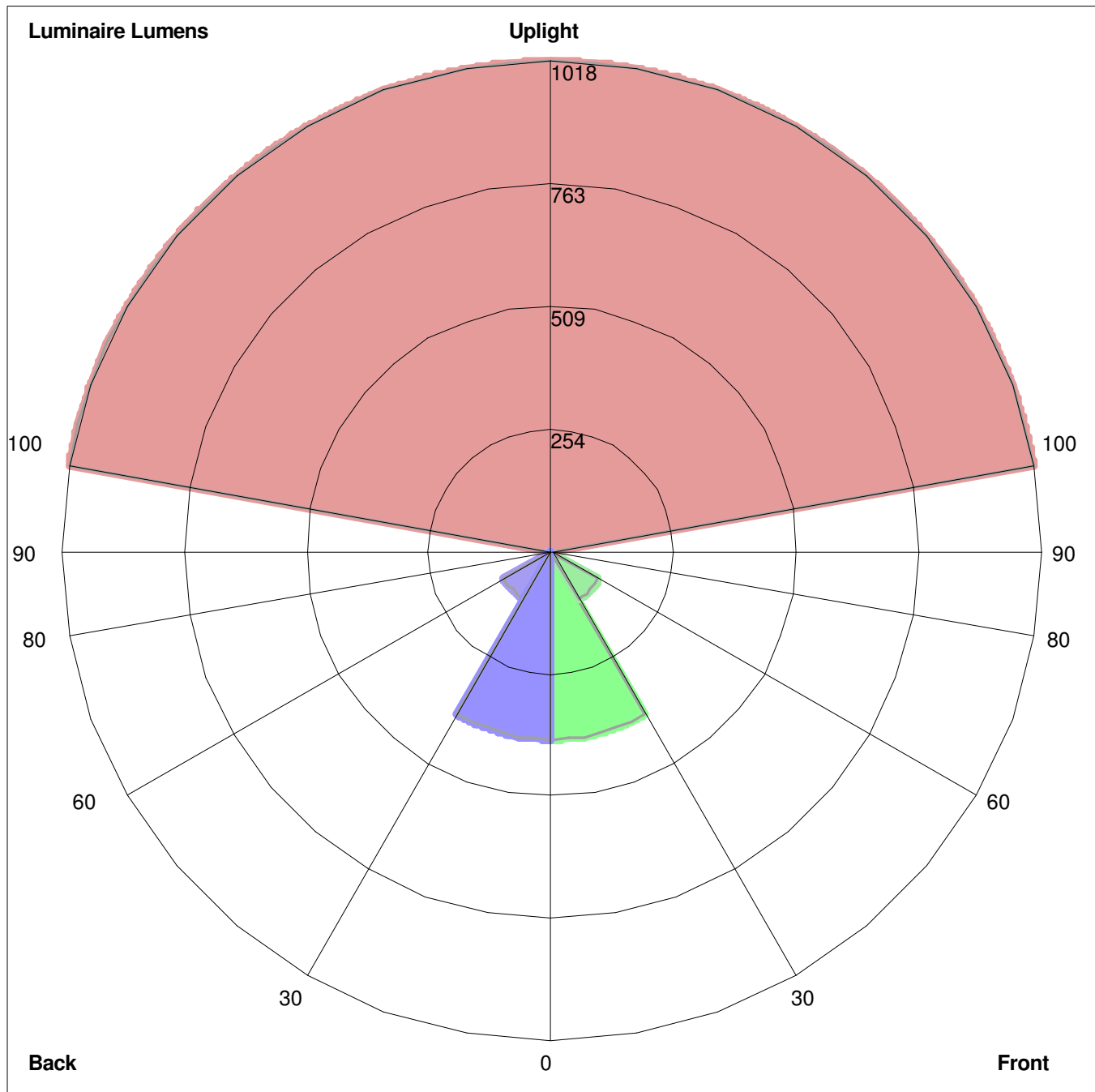
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## ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=390.6, Medium=113.6, High=4.8, Very High=0.3  
Back: Low=390.6, Medium=113.6, High=4.8, Very High=0.3  
Uplight: Low=0.7, High=1017.9

BUG Rating : B1-U5-G0