

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CRDI-XX-L10-940U-L10-940D-XXX-DIM-UNV-S-XX\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM W4CR\_BARBARA-G2-S\_(V13)\_measured  
[TESTLAB] LEDIL Inc  
[TESTDATE] 21 Aug 2024  
[ISSUEDATE] 2025-08-07  
[MANUFAC] H.E. WILLIAMS, INC.  
[MORE] CARTHAGE, MO. 64836  
[LUMCAT] W4CRDI-xx-L10-940U-L10-940D-xxx-DIM-UNV-S-xx  
[LUMINAIRE] 4 INCH ROUND DIRECT/INDIRECT LED  
[MORE] CYLINDER W/SPOT DISTRIBUTION  
[LAMPCAT] BL VERO COB  
[LAMP] LED  
[OTHER] Absolute Photometry

### CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2252
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	19.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Maximum Candela	4892.81
Maximum Candela Angle	360H 0V
Maximum Candela (<90 Degrees Vertical)	4892.81
Maximum Candela Angle (<90 Degrees Vertical)	360H 0V
Maximum Candela At 90 Degrees Vertical	.1 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.269 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CRDI-XX-L10-940U-L10-940D-XXX-DIM-UNV-S-XX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	509.6	N.A.	22.6
FM - Front-Medium (30-60)	51.8	N.A.	2.3
FH - Front-High (60-80)	1.5	N.A.	0.1
FVH - Front-Very High (80-90)	0.1	N.A.	0.0
BL - Back-Low (0-30)	509.6	N.A.	22.6
BM - Back-Medium (30-60)	51.8	N.A.	2.3
BH - Back-High (60-80)	1.5	N.A.	0.1
BVH - Back-Very High (80-90)	0.1	N.A.	0.0
UL - Uplight-Low (90-100)	0.2	N.A.	0.0
UH - Uplight-High (100-180)	1125.9	N.A.	50.0
Total	2252.1	N.A.	100.0
BUG Rating	B2-U5-G0		

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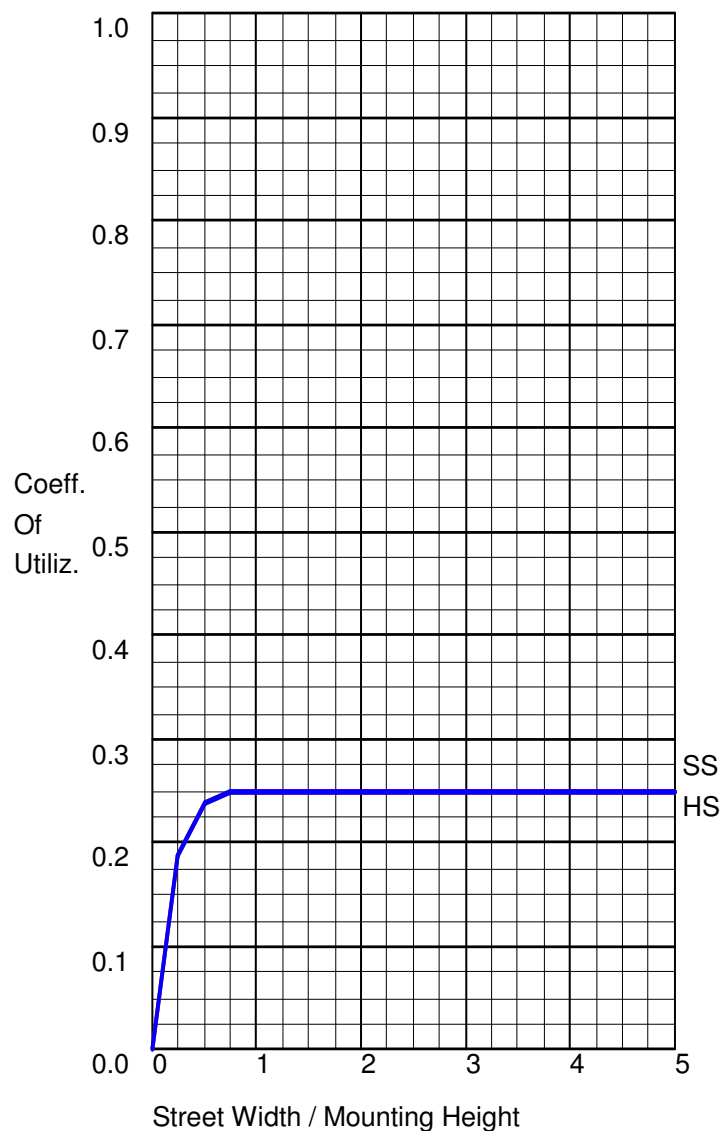
## CANDELA TABULATION

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	4892.810	4892.810	4892.810	4892.810	4892.810	4892.810	4892.810	4892.810	4892.810
5	4343.680	4338.455	4354.853	4338.455	4343.680	4338.455	4354.853	4338.455	4343.680
10	2698.721	2744.156	2741.217	2744.156	2698.721	2744.156	2741.217	2744.156	2698.721
15	1351.935	1402.049	1394.025	1402.049	1351.935	1402.049	1394.025	1402.049	1351.935
20	745.371	767.098	765.799	767.098	745.371	767.098	765.799	767.098	745.371
25	495.978	501.206	495.239	501.206	495.978	501.206	495.239	501.206	495.978
30	309.267	308.029	308.668	308.029	309.267	308.029	308.668	308.029	309.267
35	118.645	121.541	131.671	121.541	118.645	121.541	131.671	121.541	118.645
40	26.711	29.678	32.865	29.678	26.711	29.678	32.865	29.678	26.711
45	9.118	10.291	11.113	10.291	9.118	10.291	11.113	10.291	9.118
50	5.562	6.100	6.179	6.100	5.562	6.100	6.179	6.100	5.562
55	4.008	4.281	4.055	4.281	4.008	4.281	4.055	4.281	4.008
60	3.036	3.129	2.892	3.129	3.036	3.129	2.892	3.129	3.036
65	2.149	2.203	1.999	2.203	2.149	2.203	1.999	2.203	2.149
70	1.392	1.442	1.238	1.442	1.392	1.442	1.238	1.442	1.392
75	0.750	0.764	0.599	0.764	0.750	0.764	0.599	0.764	0.750
80	0.269	0.266	0.255	0.266	0.269	0.266	0.255	0.266	0.269
85	0.194	0.197	0.183	0.197	0.194	0.197	0.183	0.197	0.194
90	0.100	0.093	0.086	0.093	0.100	0.093	0.086	0.093	0.100
95	0.194	0.197	0.183	0.197	0.194	0.197	0.183	0.197	0.194
100	0.269	0.266	0.255	0.266	0.269	0.266	0.255	0.266	0.269
105	0.750	0.764	0.599	0.764	0.750	0.764	0.599	0.764	0.750
110	1.392	1.442	1.238	1.442	1.392	1.442	1.238	1.442	1.392
115	2.149	2.203	1.999	2.203	2.149	2.203	1.999	2.203	2.149
120	3.036	3.129	2.892	3.129	3.036	3.129	2.892	3.129	3.036
125	4.008	4.281	4.055	4.281	4.008	4.281	4.055	4.281	4.008
130	5.562	6.100	6.179	6.100	5.562	6.100	6.179	6.100	5.562
135	9.118	10.291	11.113	10.291	9.118	10.291	11.113	10.291	9.118
140	26.711	29.678	32.865	29.678	26.711	29.678	32.865	29.678	26.711
145	118.645	121.541	131.671	121.541	118.645	121.541	131.671	121.541	118.645
150	309.267	308.029	308.668	308.029	309.267	308.029	308.668	308.029	309.267
155	495.978	501.206	495.239	501.206	495.978	501.206	495.239	501.206	495.978
160	745.371	767.098	765.799	767.098	745.371	767.098	765.799	767.098	745.371
165	1351.935	1402.049	1394.025	1402.049	1351.935	1402.049	1394.025	1402.049	1351.935
170	2698.721	2744.156	2741.217	2744.156	2698.721	2744.156	2741.217	2744.156	2698.721
175	4343.680	4338.455	4354.853	4338.455	4343.680	4338.455	4354.853	4338.455	4343.680
180	4892.570	4892.570	4892.570	4892.570	4892.570	4892.570	4892.570	4892.570	4892.570

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### COEFFICIENTS OF UTILIZATION



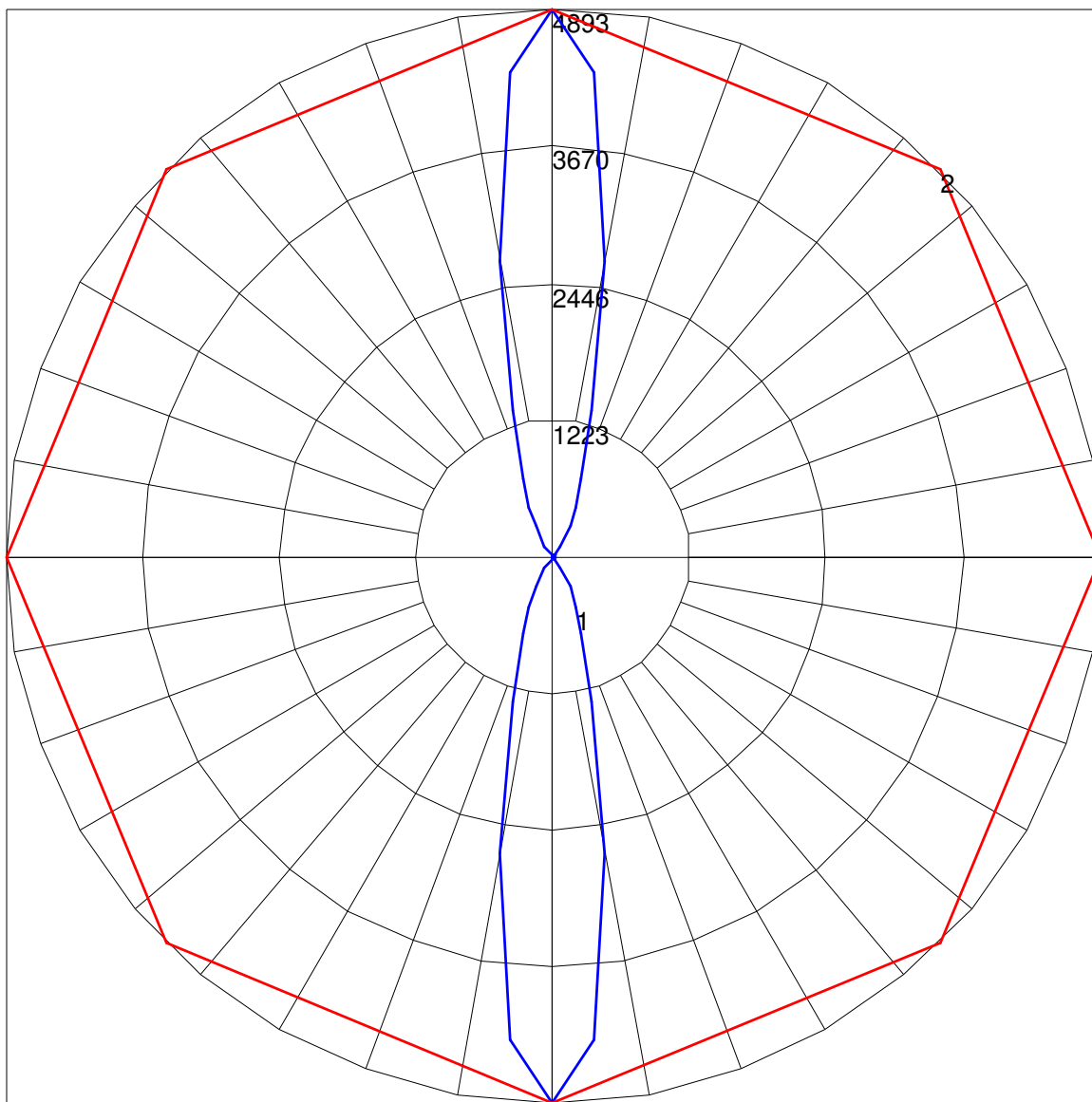
### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	563.0	25.0
Downward House Side	563.0	25.0
Downward Total	1126.0	50.0
Upward Street Side	563.0	25.0
Upward House Side	563.0	25.0
Upward Total	1126.0	50.0
Total Flux	2252.0	100.0

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## POLAR GRAPH

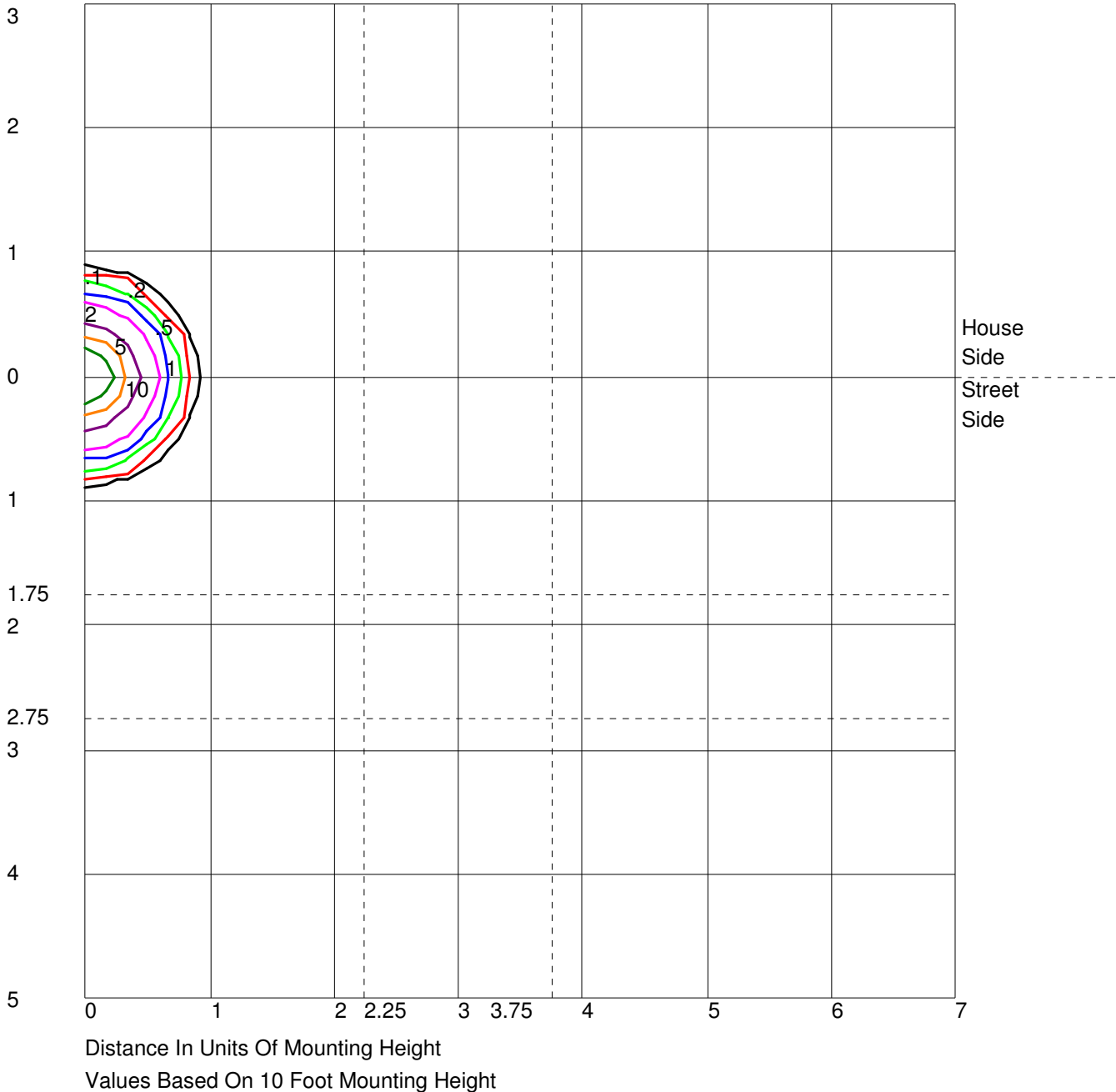


Maximum Candela = 4892.81 Located At Horizontal Angle = 360, Vertical Angle = 0

# 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



# PHOTO LUMENS

