

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P412158

Luminaire Tested: **MRI-2ASR-4-500-L935-HEO**

Issue Date: 10/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412158  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: MRI-2ASR-4-500-L935-HEO  
Description: 4 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS  
Light Source: (168) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3382.0 lumens  
Efficiency: N/A  
Efficacy: 77.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.17 / 1.32  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

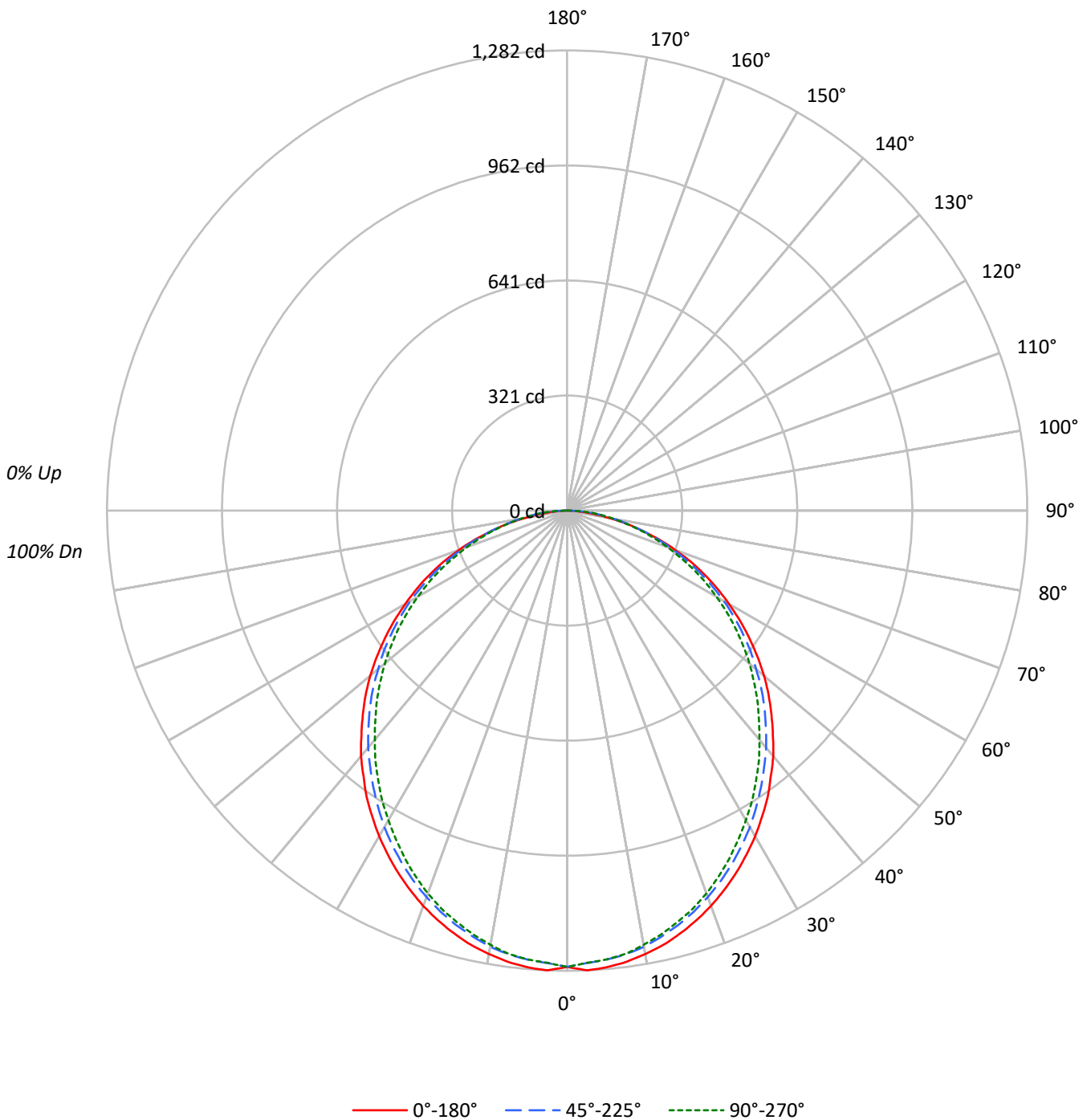
Input Watts (W): 43.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	20521	20521	20521
5°	20697	20360	20347
10°	20563	20226	20141
15°	20381	19978	19838
20°	20137	19689	19496
25°	19844	19343	19044
30°	19533	18981	18569
35°	19198	18549	18084
40°	18830	18173	17563
45°	18386	17737	17114
50°	17982	17256	16661
55°	17444	16822	16135
60°	16801	16281	15494
65°	16157	15557	14869
70°	15102	14644	14002
75°	13500	13525	13050
80°	11102	12153	12041
85°	7503	11578	11949



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.9	3.5
10°-20°	338.8	10.0
20°-30°	502.3	14.9
30°-40°	590.7	17.5
40°-50°	600.0	17.7
50°-60°	533.7	15.8
60°-70°	402.5	11.9
70°-80°	228.7	6.8
80°-90°	65.5	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	961.0	28.4
0°-40°	1551.6	45.9
0°-60°	2685.3	79.4
0°-90°	3382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3382.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1271	1271	1271	1271	1271	
5°	1277	1268	1256	1265	1255	121
15°	1219	1210	1195	1200	1187	344
25°	1114	1102	1086	1082	1069	513
35°	974	961	941	929	918	609
45°	805	795	777	761	750	622
55°	620	613	598	581	573	554
65°	423	420	407	394	389	418
75°	216	220	217	211	209	231
85°	40	56	62	62	64	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1271.0	1271.0	1271.0	1271.0	1271.0
2.5°	1282.2	1273.4	1261.8	1271.4	1261.0
5°	1277.0	1268.2	1256.2	1265.4	1255.4
7.5°	1267.8	1259.0	1246.9	1255.4	1245.7
10°	1254.2	1246.1	1233.7	1240.5	1228.5
12.5°	1239.3	1228.9	1215.7	1221.7	1209.7
15°	1219.3	1209.7	1195.2	1199.6	1186.8
17.5°	1197.2	1186.0	1172.0	1174.4	1163.6
20°	1172.0	1160.8	1145.9	1146.7	1134.7
22.5°	1143.9	1133.5	1117.5	1114.7	1103.4
25°	1113.9	1102.2	1085.8	1081.8	1069.0
27.5°	1081.4	1070.6	1052.9	1046.5	1032.9
30°	1047.7	1034.9	1018.1	1008.5	996.0
32.5°	1010.9	999.2	980.4	968.4	958.8
35°	974.0	960.8	941.1	929.1	917.5
37.5°	932.3	919.9	901.4	889.4	877.8
40°	893.4	879.8	862.2	847.3	833.3
42.5°	848.5	838.9	819.7	804.8	791.2
45°	805.2	795.2	776.8	761.1	749.5
47.5°	761.5	751.5	733.9	717.1	705.8
50°	715.9	705.0	687.0	672.2	663.3
52.5°	668.2	660.5	644.5	627.7	617.7
55°	619.7	613.2	597.6	580.8	573.2
57.5°	570.8	565.6	551.1	535.1	527.5
60°	520.3	517.9	504.2	489.0	479.8
62.5°	472.6	469.0	454.9	443.7	435.3
65°	422.9	420.1	407.2	394.4	389.2
67.5°	372.8	369.6	357.5	348.7	340.7
70°	319.9	319.9	310.2	301.8	296.6
72.5°	269.7	270.1	263.7	254.9	252.5
75°	216.4	219.6	216.8	210.8	209.2
77.5°	169.1	171.9	172.4	170.3	167.5
80°	119.4	127.5	130.7	130.3	129.5
82.5°	76.6	89.4	95.4	95.0	95.8
85°	40.5	55.7	62.5	62.5	64.5
87.5°	14.0	28.5	30.5	28.1	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)