

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: P412266

Luminaire Tested: **MRI-4ASR-8-500-L935-HEO**

Issue Date: 10/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412266  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: MRI-4ASR-8-500-L935-HEO  
Description: 8 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS  
Light Source: (672) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6668.0 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 0.33' x L: 8' x H: 0')  
CIE Type: Direct

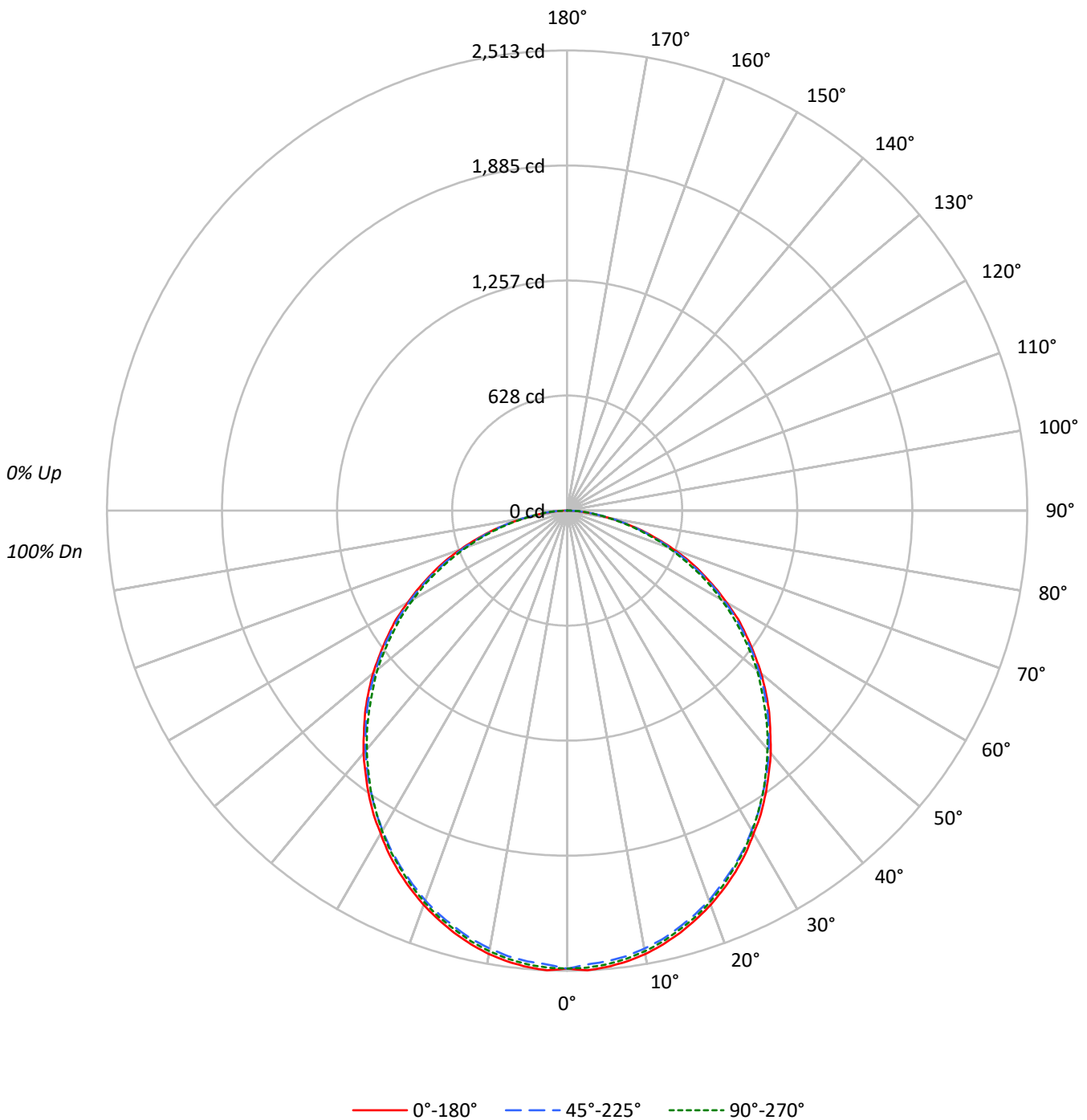
Input Watts (W): 61.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	31
9	57	44	35	30	56	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°	10096	10096	10096
5°	10138	10015	10080
10°	10079	9955	10017
15°	9973	9853	9902
20°	9845	9733	9780
25°	9693	9568	9602
30°	9494	9392	9419
35°	9310	9210	9210
40°	9114	9025	8967
45°	8905	8833	8713
50°	8683	8582	8498
55°	8424	8329	8168
60°	8130	8021	7831
65°	7789	7644	7410
70°	7292	7093	6904
75°	6636	6477	6227
80°	5435	5535	5298
85°	3909	4418	4729



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.1	3.5
10°-20°	669.2	10.0
20°-30°	995.1	14.9
30°-40°	1173.4	17.6
40°-50°	1192.2	17.9
50°-60°	1057.9	15.9
60°-70°	791.6	11.9
70°-80°	438.4	6.6
80°-90°	114.0	1.7
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°	1900.5	28.5
0°-40°	3073.9	46.1
0°-60°	5324.0	79.8
0°-90°	6668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6668.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2501	2501	2501	2501	2501	
5°	2502	2495	2472	2490	2488	237
15°	2386	2382	2358	2376	2370	673
25°	2176	2168	2148	2159	2156	1002
35°	1889	1886	1869	1872	1869	1182
45°	1560	1560	1547	1535	1526	1203
55°	1197	1202	1184	1168	1161	1071
65°	816	820	800	787	776	807
75°	426	421	415	404	399	447
85°	84	96	95	99	102	106
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2501.3	2501.3	2501.3	2501.3	2501.3
2.5°	2513.1	2505.5	2481.0	2501.3	2497.9
5°	2502.1	2495.4	2471.7	2490.3	2487.8
7.5°	2484.4	2476.8	2454.8	2473.4	2469.2
10°	2459.1	2451.5	2428.7	2448.1	2443.9
12.5°	2426.1	2419.4	2398.3	2414.3	2411.0
15°	2386.5	2382.2	2357.8	2375.5	2369.6
17.5°	2340.9	2336.7	2314.7	2331.6	2328.2
20°	2291.9	2284.3	2265.8	2277.6	2276.7
22.5°	2235.4	2228.6	2207.5	2221.9	2219.3
25°	2176.3	2167.8	2148.4	2159.4	2156.0
27.5°	2110.4	2102.0	2085.9	2094.4	2092.7
30°	2037.0	2034.5	2015.0	2022.6	2020.9
32.5°	1967.8	1961.0	1947.5	1946.7	1944.1
35°	1889.3	1885.9	1869.0	1871.5	1869.0
37.5°	1809.1	1807.4	1793.0	1789.6	1784.6
40°	1729.7	1724.6	1712.8	1706.1	1701.8
42.5°	1641.9	1644.4	1628.4	1620.8	1617.4
45°	1560.0	1560.0	1547.4	1534.7	1526.3
47.5°	1472.2	1473.1	1459.6	1443.5	1438.5
50°	1382.8	1384.4	1366.7	1353.2	1353.2
52.5°	1289.0	1294.1	1277.2	1262.9	1257.0
55°	1197.0	1202.1	1183.5	1168.3	1160.7
57.5°	1108.4	1107.6	1092.4	1072.1	1070.4
60°	1007.1	1013.0	993.6	978.4	970.0
62.5°	910.9	918.5	897.4	883.0	877.9
65°	815.5	820.5	800.3	786.8	775.8
67.5°	721.8	720.1	701.5	686.3	680.4
70°	617.9	621.3	601.0	590.1	585.0
72.5°	520.9	524.2	506.5	498.9	490.5
75°	425.5	421.2	415.3	403.5	399.3
77.5°	324.2	328.4	326.7	314.0	312.3
80°	233.8	243.1	238.1	228.8	227.9
82.5°	155.3	164.6	162.1	159.5	157.0
85°	84.4	96.2	95.4	98.8	102.1
87.5°	32.1	41.4	49.0	48.1	50.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)